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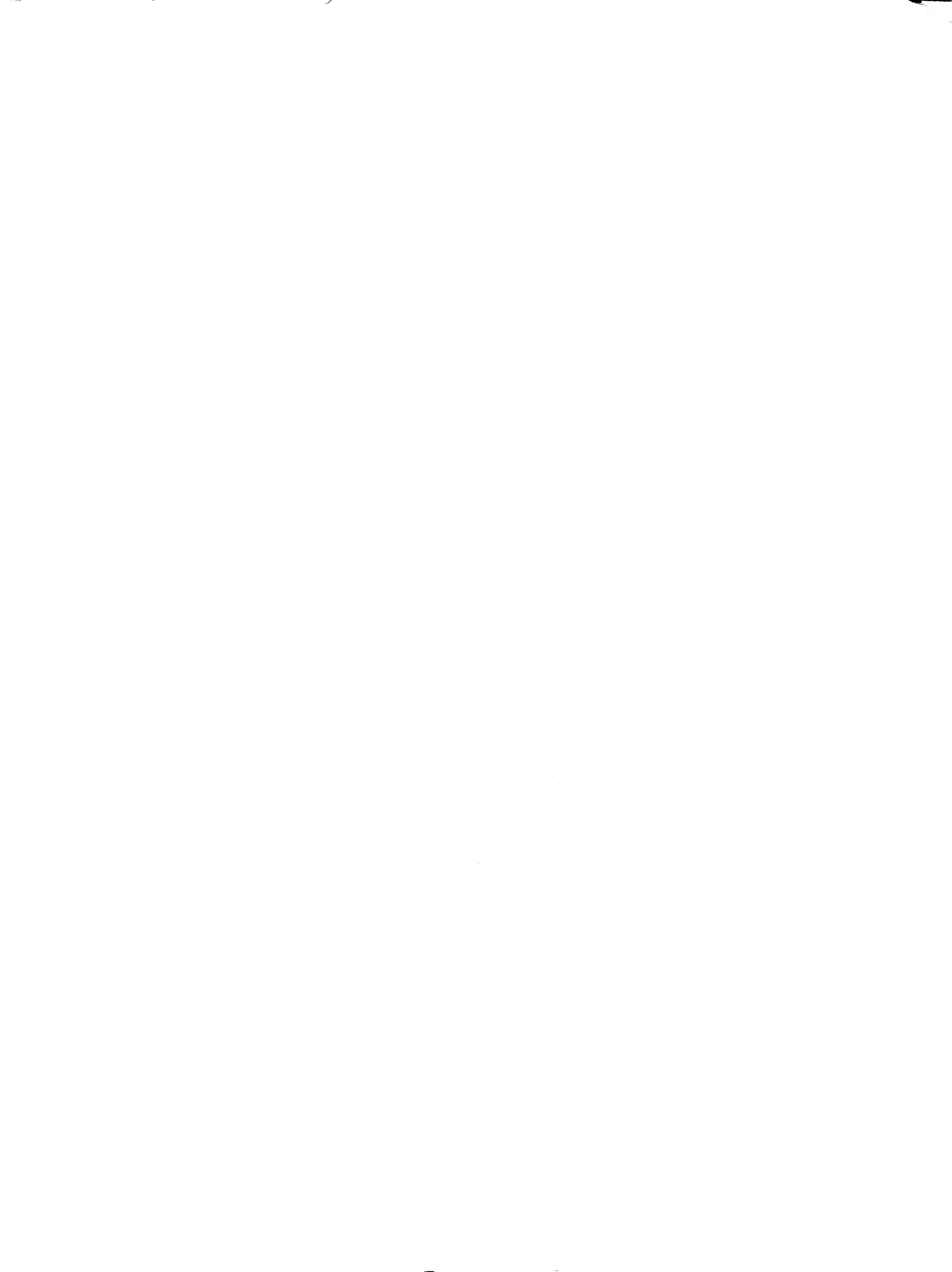
**Plant Pests of Importance to  
North American Agriculture**

***INDEX OF PLANT VIRUS DISEASES***

**Agriculture Handbook No. 307**

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**Plant Pests of Importance to  
North American Agriculture**

***Index of Plant Virus Diseases***

**Agriculture Handbook No. 307**

**Agricultural Research Service  
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Washington, D.C.

Issued May 1966

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## FOREWORD

This "Index of Plant Virus Diseases" complements the "Index of Plant Diseases in the United States," Agriculture Handbook No. 165, published in 1960. The content of the present index is subject to two limitations. First, it takes into account only records published in the English language. Second, the cutoff date is 1958, since funds allotted were not sufficient to continue it further.

In spite of these restrictions, the index should be useful from both research and practical standpoints.

The background material provided will aid virologists in planning research, in identifying and classifying viruses, and in predicting the reaction to a given virus of additional plants outside the known host range.

Regulatory programs will have many uses for the index. It will aid quarantine inspectors at ports of importation in the diagnosis of visible, and the detection of latent, virus infections. It will provide an authoritative basis for quarantine legislation against any particular virus and its hosts.

The information on distribution of plant viruses will be particularly useful in assessing the probable danger from introducing destructive viruses hitherto absent from this country. A feature of particular significance in times of national emergency is the provision of a basis for judging the likelihood of the synthesis of new viruses or of new strains of existing viruses that might severely damage vulnerable important crops.

PAUL R. MILLER,  
*Crops Research Division,*  
*Beltsville, Md.*

## PREFACE

This "Index of Plant Virus Diseases" is the outgrowth of a compilation started 24 years ago with technical assistance by the Rev. C. L. Bliss, 1941-42, and supported by a Public Works Administration (PWA) project to prepare lists of names of hosts of plant viruses for quick reference. The names of host plants and viruses in K. M. Smith's book, "A Textbook of Plant Virus Diseases" (1937), were rearranged to provide the desired lists; that is, alphabetical lists of plants susceptible to some common viruses. These lists proved to be timesaving and helpful in various searches for information on known hosts of viruses. In 1958, R. E. Fitzpatrick and others in their "Index of Hosts and Vectors of Plant Viruses" compiled some lists from the second edition of K. M. Smith's book (1957). This "Index of Plant Virus Diseases" enlarges these lists and serves as a companion handbook to "Index of Plant Diseases in the United States," Agriculture Handbook No. 165.

From my World War II experience in the use of coded cards (Soldier Qualification Card) it seemed worthwhile to use coded cards in compiling from the literature the names of flowering plants susceptible or insusceptible to viruses, provided financial support for technical assistance could be found. A 2-year grant in 1956 provided services of a technical compiler who retrieved a part of the desired information from research articles and typed this information on approximately 25,000 coded cards. Description of the system was published by the National Science Foundation in "Nonconventional Technical Information Systems in Current Use," No. 2 (NSF-59-49), pp. 61-63, September 1959; and No. 3 (NSF-62-34), pp. 40-41, October 1962. A second grant in March 1964 permitted the organization of the material for the Index—Subindices I through VII, inclusive.

The indices were prepared by assembling data on the coded cards and photographing these data. The manner of presenting the data is sometimes inconsistent with regular usage. For example, for the sake of clearness and convenience of typing, scientific names of plants and viruses have not been italicized or underlined. Also, a comma has been inserted between Latin and authority names. This comma is omitted in regular usage.

Responsibility for the designation of plant susceptibility or insusceptibility is solely with the authors of the original publications, cited here by authors and year of publication. Decision to include the information in the index was based upon the evidence for susceptibility or insusceptibility in the original article. In some cases a plant name will appear in both the susceptible and the insusceptible list. This double listing is unavoidable since cultivars within a plant species, or *varietas* (smallest taxon considered), sometimes differ in their susceptibility to a virus. Journal name and page citation of the original article are not given, to conserve space and to exclude reference material that would tend to distract the reader's attention from primary information. With the name of the authors and year of publication, one can quickly find the full citation in indices of comprehensive abstracting journals or in private collections of reprints if available and filed or cross-referenced by the author.

Sole authorship of the compendium is taken for three reasons: (1) To indicate the originator of the plan and the maker of decisions relative to undertaking the program, obtaining support, compiling the information, and preparing the manuscript; (2) to simplify author citation; and (3) to center responsibility for the index and the work done by those giving technical assistance to the project.

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# Plant Pests of Importance to North American Agriculture

## INDEX OF PLANT VIRUS DISEASES

*By H. H. Thornberry, plant pathologist, University of Illinois*

### SCOPE

The purpose of this index is to provide checklists in the form of a readily accessible and quick-reference handbook of published information on plants susceptible or insusceptible to viruses in order that the results of research can be more fully utilized.

Coverage of information is incomplete since the retrieval aspects of the program terminated in 1958. Original articles, not abstract journals, were reviewed. Publications in modern languages other than English were not examined.

### NOMENCLATURE

#### Binomials of Plant Species

Binomials of plant species in the index have been edited to conform to the nomenclature of species in Agriculture Handbook 165. For names of species not given in the handbook, the binomial and authority are those given by the author publishing the information. Where binominal authority was not given in the original article (or not copied on the "work" card), authority found in "Index Kewensis," Gray's "Manual of Botany," or Britton and Brown's "Illustrated Flora of the Northern States and Canada" (in this order) was given. Binomials for which authority was not found in the taxonomic references are designated by an asterisk. Authority and year for plant binomials are included in Subindices I and II but not in Subindices III and IV.

#### Names of Viruses

The virus names taken from the literature for the index have been edited to conform to the names in "Common Names of Virus Diseases Used in the Review of Applied Mycology," Review of Applied Mycology Supplement (35: 1-78, 1957). Authority for the virus names is not included in Subindices I and II in order to confine the virus name to one line. This arrangement conserves space and permits easy reading since each line has its specific information. Authority for the names is included in Subindices III and IV.

For virus names not given in the Review of Applied Mycology Supplement, the names are

those used by the authors; these are designated by an asterisk. In cases where the virus name used by the author did not contain a plant name (common or Latin binomial), the plant name (in parentheses) has been added.

Word order of the virus names was changed in order to comply with a logical sequence in a systematic word order indicating subordination or subdivision from left to right. The substantive (virus) of the name was placed first (left), followed by the qualifying epithets, a plant name (common or Latin binomial), and a letter or word (or words) designating further description. In addition to the logical sequence, the word order permits an economy of space since the abbreviation for virus (V.) allows the name to be confined to one line. The word order also prevents any momentary confusion of a virus name with the Latin genus name of a plant in cases where the first element in the virus name in the Review of Applied Mycology Supplement is a plant genus name; for example, chrysanthemum stunt virus.

Translated names of viruses or viral diseases by V. Bojnansky may provide aid to users of the index. (Bojnansky, V. 1961. Virus Diseases Terminology, "Rostlinna výroba," Sbornik Ceskoslovenske Akademie Zemedelskych Ved, Praha 34 (Rocnik 7): 1437-1462.)

#### Scientific Names: Plant Viruses

Latin binomials (scientific names) of viruses were not used in the checklists herein because the list of names compiled by F. A. Barkley for in-

clusion in "Index Bergeyana" was omitted from that publication. To make these viral binomials accessible, they are included here, with Barkley's consent, in Subindex V. The material was supplied by R. E. Buchanan, November 18, 1963, and June 8, 1964.

## Scientific Names: Families and Genera

Scientific names of families of flowering plants treated in the index are given in alphabetical order in Subindex VI; scientific names of plant genera are in Subindex VII.

## BIOVECTORS OF VIRUSES

Retrieved information in the coded-card file on biovectors was not included in this index as originally planned because the information, incomplete in the card file, is largely available in some other compendia readily accessible to most virologists or other scientists and technical personnel having need for the information. Some of these publications are:

Carter, W. Insects in relation to plant diseases. 705 pp. Interscience Publishers, A division of John Wiley and Sons, New York. 1962.

Entomological Society of America. Common names of insects. *Bul. Ent. Soc. Amer.* 6(4): 173-211. 1960.

Heinze, Kurt. *Phytopathogene viren und ihre uber-träger.* 290 pp. Ducker und Humblot, Berlin, Germany. 1959.

Kennedy, J. S., Day, M. F., and Eastop, V. F. A conspectus of aphids as vectors of plant viruses. 114 pp. Commonwealth Institute of Entomology. London. 1962.

Nielson, M. W. A synonymical list of leafhopper vectors of plant viruses (Homoptera, Cicadellidae). U.S. Dept. Agr., Agr. Res. Serv. ARS 33-74, 12 pp. 1962.



- ABROMA Jacq. 1776 (Sterculiaceae)  
*A. augusta*, L. f.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- ABUTILON Tourn. ex Adans. 1763 (Malvaceae)  
*A. mulleri friderici*, Gurke & K. Schum.  
 V. abutilon infectious variegation  
 Keur, John Y., 1933  
*A. regnellii*, Miq. in Linnaea  
 V. abutilon infectious variegation  
 Keur, John Y., 1933  
*A. spp.*  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*A. striatum*, Dicks., clone thompsonii, Veitch  
 V. abutilon infectious variegation  
 Keur, John Y., 1933, 1934  
*A. theophrasti*, Medic.  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- ACACIA ((Tourn.)) L. 1737 (Leguminosae)  
*A. longifolia*, Willd.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- ACALYPHA L. 1737 (Euphorbiaceae)  
*A. virginica*, L.  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942
- ACANTHOSPERMUM Schrank 1819 (Compositae)  
*A. hispidum*, DC.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949
- ACER ((Tourn.)) L. 1735 (Aceraceae)  
*A. ginnala*, Maxim.  
 V. tobacco ring spot  
 Wilkinson, R.E., 1952  
*A. negundo*, L.  
 V. tobacco ring spot  
 Wilkinson, R.E., 1952
- ACHILLEA L. 1735 (Compositae)  
*A. millefolium*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*A. ptarmica*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953
- ACHYRANTHES L. 1737 (Amaranthaceae)  
*A. aspera*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ADANSONIA L. 1753 (Bombacaceae)  
*A. digitata*, L.  
 V. cacao swollen shoot  
 Attafuah, A. and T.W. Tinsley, 1958  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958
- ADENIA Forsk. 1775 (Passifloraceae)  
*A. spp.*  
 V. cucumber mosaic  
 Natrass, R.M., 1944
- ADLUMIA Raf. 1808 (Papaveraceae)  
*A. fungosa*, Greene  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- ADONIS Dill. ex L. 1735 (Ranunculaceae)  
*A. aestivalis*, L.  
 V. aster yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- AEGILOPS L. 1737 (Gramineae)  
*A. crassa*, Boiss.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
*A. cylindrica*, Host  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
*A. ovata*, L.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
*A. triuncialis*, L.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
*A. ventricosa*, Tausch  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951
- AEGLOPSIS Swingle 1911 (Rutaceae)  
*A. chevalieri*, Swingle  
 V. citrus tristeza  
 Hughes, W.A. and C.A. Lister, 1953  
 Knorr, L.C., 1956
- AESCHYNOMENE L. 1737 (Leguminosae)  
*A. falcata*, (Poir.) DC.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*A. indica*, L.  
 V. tobacco streak  
 Fulton, Robert W., 1948
- AFRAEGLE Stapf 1906 (Rutaceae)  
*A. paniculata*, (Schum.) Engl.  
 V. citrus tristeza  
 Hughes, W.A. and C.A. Lister, 1953  
 Knorr, L.C., 1956
- AGERATUM L. 1737 (Compositae)  
*A. conyzoides*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. tobacco leaf curl  
 Pruthi, Hem Singh and C.K. Samuel, 1939  
*A. spp.*  
 V. tobacco necrosis  
 Price, W.C., 1940
- AGROPYRON J. Gaertn. 1770 (Gramineae)  
*A. elongatum*, (Host) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. hybrid*  
 V. barley stripe mosaic  
 Sill, W.H., Jr., 1956  
 V. brome mosaic  
 Sill, W.H., Jr., 1956  
 V. wheat streak mosaic  
 Sill, W.H., Jr., 1956  
*A. inerme*, (Scribn. & Sm.) Rydb.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
*A. intermedium*, (Host) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. junceum*, (L.) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
*A. lasianthum*, Boiss.  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. pertenuis*, (Mey.) Nevski  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952

- A. *pungens*, (Pers.) Roem. & Schult.  
V. wheat streak mosaic  
McKinney, H.H. and W.J. Sando, 1951
- A. *repens*, L.  
V. agropyron mosaic  
Slykhuis, J. T., 1952  
V. oat pseudo-roseette  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- A. *rigidum*, Beauv.  
V. agropyron mosaic  
Slykhuis, J. T., 1952
- A. *trachycaulum*, (Link) Malte  
V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1953  
V. wheat streak mosaic  
McKinney, H.H. and W.J. Sando, 1951
- A. *ugamicum*, Drobov  
V. wheat streak mosaic  
McKinney, H.H. and W.J. Sando, 1951
- AIZOON L. 1737 (Aizoaceae)  
A. spp.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- ALEURITES Forst. 1776 (Euphorbiaceae)  
A. *fordinii*, Hemsl.  
V. (tung) rough bark \*  
Large, John R., 1949
- ALLIUM ((Tourn.)) L. 1735 (Liliaceae)  
A. *ascalonicum*, L.  
V. aster yellows  
Smith, Floyd F. and Philip Brierley, 1948  
V. onion yellow dwarf  
Henderson, D.M., 1953  
Henderson, W.J., 1935
- A. *canadense*, L.  
V. onion mosaic  
McKinney, H.H., 1928
- A. *cepa*, L.  
V. aster yellows  
Brierley, Philip and Floyd F. Smith, 1944  
Severin, Henry H.P. and Julius H. Freitag, 1945  
V. bayberry yellows  
Raychaudhuri, S.P., 1953  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. onion mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. onion yellow dwarf  
Brierley, Philip and Floyd F. Smith, 1946  
Henderson, D.M., 1953  
Henderson, W.J., 1932, 1935  
Melhus, I.E. and W.J. Henderson, 1929  
Melhus, I.E., C.S. Reddy, W.J. Henderson and E. Vestal, 1929
- A. *cepa* var. *solaninum*, Alef.  
V. onion yellow dwarf  
Brierley, Philip and Floyd F. Smith, 1944
- A. *cepa* var. *viviparum*, Metz.  
V. onion yellow dwarf  
Brierley, Philip and Floyd F. Smith, 1944
- A. *neopolitanum*, Cyr.  
V. onion mosaic  
Brierley, Philip and Floyd F. Smith, 1944
- A. *porrum*, L.  
V. onion yellow dwarf  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- A. *sativum*, L.  
V. onion mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. onion yellow dwarf  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- A. *vineale*, L.  
V. onion mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. onion yellow dwarf  
Brierley, Philip and Floyd F. Smith, 1944
- ALONSOA Ruiz & Pav. 1798 (Scrophulariaceae)  
A. *warscewiczii*, Regel  
V. anemone mosaic \*  
Hollings, M., 1957
- A. *warscewiczii*, Regel (cont.)  
V. cabbage black ring spot  
Hollings, M., 1957
- ALOPECURUS L. 1735 (Gramineae)  
A. *fulvus*, Small  
V. rice dwarf  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ALTERNANTHERA Forsk. 1775 (Amaranthaceae)  
A. *ficoidea*, (L.) R. Br.  
V. cucumber mosaic  
Dale, W. T., 1954
- ALTHAEA ((Tourn.)) L. 1735 (Malvaceae)  
A. *rosea*, (L.) Cav.  
V. abutilon infectious variegation  
Bird, Julio, 1958  
V. carnation ring spot  
Brierley, Philip and Floyd F. Smith, 1957  
V. cotton leaf curl  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950  
V. hollyhock mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. tobacco leaf curl  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. tobacco ring spot no. 2  
Wilkinson, R.E., 1952a  
V. tobacco streak  
Fulton, Robert W., 1948
- ALYSSUM Tourn. ex L. 1735 (Cruciferae)  
A. *compactum* var. *procumbens* \*  
V. aster yellows  
Kunkel, L.O., 1926
- A. *maritimum*, Lam.  
V. turnip mosaic  
Tompkins, C.M., 1939
- AMARANTHUS L. 1735 (Amaranthaceae)  
A. *albus*, L.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- A. *aureus*, F.G. Dietr.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- A. *auroro* or *aurora* \*  
V. aster yellows  
Kunkel, L.O., 1926  
V. beet curly top  
Freitag, Julius H. and Henry H.P. Severin, 1936
- A. *caracu*, Zucc. ex Steud.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- A. *carneus*, Hort. ex Moq. in DC.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- A. *caudatus*, L.  
V. anemone brown ring \*  
Hollings, M., 1958  
V. anemone mosaic \*  
Hollings, M., 1957  
V. aster yellows  
Kunkel, L.O., 1926  
V. beet curly top  
Freitag, Julius H. and Henry H.P. Severin, 1936  
V. beet mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. cabbage black ring spot  
Hollings, M., 1957  
V. chrysanthemum latent \*  
Hollings, M., 1957  
V. cucumber mosaic  
Fulton, Joseph P., 1950  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1940  
V. lucerne mosaic  
Price, W.C., 1940  
V. potato leaf rolling mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- A. caudatus, L. (cont.)  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Fulton, Robert W., 1941  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. tomato bushy stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip mosaic  
 Pound, Glenn S., 1948
- A. cruentus, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. deflexus, L.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. gangeticus, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. potato X  
 Hutton, E.M., 1949
- A. graecizans, L.  
 V. beet curly top  
 Carsner, E., 1919  
 Severin, Henry H.P., 1934  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. potato leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- A. hybridus, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- A. palmeri, S. Wats.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. paniculatus, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco broad ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- A. patulus, Bert.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. retroflexus, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucurbit mosaic \*  
 Doolittle, S.P., 1921  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 V. iris ring spot \*  
 Travis, R.V., 1957  
 V. potato leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Dykstra, T.P., 1939  
 Larson, R.H., 1944  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Milbrath, J.A., 1939
- A. tricolor, L.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. red currant ring spot  
 Klesser, P.J., 1951  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- AMARYLLIS L. 1735 (Amaryllidaceae)  
 (HIPPEASTRUM) Herb. 1821  
 A. hybrid  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 (H. spp.)  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- AMBROSIA L. 1737 (Compositae)  
 A. artemisiifolia, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Younkin, S.G., 1943  
 V. beet leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1957  
 Holmes, Francis O., 1938  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 A. artemisiifolia var. elatior, (L.) Descourtils  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- A. trifida, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1948
- AMELANCHIER Medic. 1789 (Rosaceae)  
 A. spp.  
 V. apple \*  
 Millikan, D.F. and H.W. Guengerich, 1956
- AMMOBIUM R. Br. 1824 (Compositae)  
 A. alatum, R. Br.  
 V. aster yellows  
 Kunkel, L.O., 1926
- AMSINCKIA Lehm. 1831 (Boraginaceae)  
 A. douglasiana, DC.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- ANAGALLIS ((Tourn.)) L. 1735 (Primulaceae)  
 A. arvensis, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958  
 V. strawberry green petal  
 Frazier, N.W. and A.F. Posnette, 1957  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- A. linifolia, L.  
 V. clover big vein  
 Black, L.M., 1945

- ANANAS Tourn. ex L. 1735 (Bromeliaceae)  
 A. comosus, (L.) Merr.  
   V. cucumber mosaic  
     Carter, W., 1935  
   V. tomato spotted wilt  
     Carter, W., 1935  
     Illingworth, J.F., 1931  
     Linford, M.B., 1931, 1932, 1943  
     Sakimura, K., 1940
- ANCHUSA L. 1735 (Boraginaceae)  
 A. azurea, Mill.  
   V. beet curly top  
     Freitag, Julius H. and Henry H.P. Severin, 1936  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
 A. capensis, Thunb.  
   V. cabbage black ring spot  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
 A. spp.  
   V. cucumber mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ANDROCERA Nutt. 1818 (Solanaceae)  
 A. rostrata, Rydb.  
   V. tomato ring spot  
     Samson, R.W. and E.P. Imle, 1942
- ANDROPOGON L. 1753 (Gramineae)  
 A. barbinodis, Lag.  
   V. barley yellow dwarf  
     Oswald, John W. and Byron R. Houston, 1953  
 A. sorghum, (L.) Brot.  
   V. sugarcane mosaic  
     Lawas, Orencio M. and William L. Fernandez,  
     1949  
 A. sorghum var. virgatus \*  
   V. sugarcane mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ANEMONE L. 1735 (Ranunculaceae)  
 A. coronaria, L.  
   V. anemone brown ring \*  
     Hollings, M., 1958  
   V. anemone mosaic \*  
     Hollings, M., 1957  
   V. aster yellows  
     Severin, Henry H.P. and Julius H. Freitag, 1945  
   V. beet curly top  
     Freitag, Julius H. and Henry H.P. Severin, 1936  
 A. nemorosa, L.  
   V. anemone mosaic \*  
     Hollings, M., 1957  
   V. cabbage black ring spot  
     Hollings, M., 1957  
 A. spp.  
   V. tomato spotted wilt  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ANETHUM Tourn. ex L. 1737 (Umbelliferae)  
 A. graveolens, L.  
   V. aster yellows  
     Kunkel, L.O., 1926  
   V. beet curly top  
     Severin, Henry H.P., 1929  
   V. celery mosaic  
     Freitag, Julius H. and Henry H.P. Severin, 1945  
     Severin, Henry H.P. and Julius H. Freitag, 1938  
   V. cucumber mosaic  
     Wellman, F.L., 1935  
   V. poison hemlock ring spot  
     Freitag, Julius H. and Henry H.P. Severin, 1945
- ANGRAECUM Bory 1804 (Orchidaceae)  
 A. eburneum, Lindl.  
   V. orchid (cymbidium) mosaic  
     Jensen, D.D. and A.H. Gold, 1955
- ANTHEMIS Mich. ex L. 1735 (Compositae)  
 A. cotula, L.  
   V. aster yellows  
     Frazier, Norman W. and Henry H.P. Severin, 1945  
   V. beet curly top  
     Severin, Henry H.P., 1934  
   V. clover big vein  
     Black, L.M., 1945  
   V. clover witches' broom \*  
     Frazier, N.W. and A.F. Posnette, 1957  
   V. cucumber mosaic  
     Burnett, G., 1934  
   V. strawberry green petal  
     Frazier, N.W. and A.F. Posnette, 1957  
 A. tinctoria, L.  
   V. chrysanthemum stunt  
     Brierley, Philip, 1950, 1953
- ANTHOXANTHUM L. 1737 (Gramineae)  
 A. odoratum, L.  
   V. barley yellow dwarf  
     Oswald, John W. and Byron R. Houston, 1953
- ANTHRISCUS Bernh. 1800 (Umbelliferae)  
 A. cerefolium, Hoffm.  
   V. beet curly top  
     Severin, Henry H.P., 1929  
   V. celery mosaic  
     Freitag, Julius H. and Henry H.P. Severin, 1945  
     Severin, Henry H.P. and Julius H. Freitag, 1938  
   V. cucumber mosaic  
     Price, W.C., 1940  
   V. lucerne mosaic  
     Price, W.C., 1940  
   V. poison hemlock ring spot  
     Freitag, Julius H. and Henry H.P. Severin, 1945  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. tobacco necrosis  
     Price, W.C., 1940  
   V. tobacco ring spot  
     Price, W.C., 1940  
   V. tobacco ring spot no. 2  
     Price, W.C., 1940
- ANTIRRHINUM Tourn. ex L. 1735 (Scrophulariaceae)  
 A. majus, L.  
   V. carnation ring spot  
     Brierley, Philip and Floyd F. Smith, 1957  
   V. chrysanthemum latent \*  
     Hollings, M., 1957  
   V. cucumber mosaic  
     Berkeley, G.H., 1951, 1953  
     Brierley, Philip, 1952  
     Doolittle, S.P. and W.J. Zaumeyer, 1953  
     Hollings, M., 1955  
     Nienow, Inez, 1948  
     Pound, Glenn S. and J.C. Walker, 1948  
     Wellman, F.L., 1935  
   V. hydrangea ring spot  
     Brierley, Philip and Paul Lorentz, 1956, 1957  
   V. lucerne mosaic  
     Berkeley, G.H., 1947  
     Kreitlow, K.W., and W.C. Price, 1948, 1949  
     Price, W.C., 1940  
     Zaumeyer, W.J., 1953  
   V. pea mottle  
     Johnson, Folke, 1942  
   V. pelargonium leaf curl  
     McWhorter, Frank P., 1957  
   V. prunus A \*  
     Fulton, Robert W., 1957  
   V. prunus B \*  
     Fulton, Robert W., 1957  
   V. prunus E \*  
     Fulton, Robert W., 1957  
   V. prunus G \*  
     Fulton, Robert W., 1957  
   V. tobacco broad ring spot  
     Johnson, James and Robert W. Fulton, 1942  
   V. tobacco mosaic  
     Berkeley, G.H., 1951  
     Grant, T.J., 1934  
     Holmes, Francis O., 1946  
   V. tobacco necrosis  
     Price, W.C., 1940

- A. majus, L. (cont.)  
 V. tobacco ring spot  
 Berkeley, G.H., 1951, 1953  
 Brierley, Philip, 1952  
 Brierley, Philip and Floyd F. Smith, 1954  
 Travis, R.V. and Philip Brierley, 1957  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955
- A. spp.  
 V. chrysanthemum Q  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- APIUM ((Tourn.)) L. 1735 (Umbelliferae)  
 A. graveolens, L.  
 V. aster yellows  
 George, J.A. and J.K. Richardson, 1957  
 Raymer, W.B. and Clark R. Amen, 1954  
 V. bayberry yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. celery mosaic  
 Doolittle, S.P. and F.L. Wellman, 1934  
 V. clover witches' broom  
 Frazier, N.W. and A.F. Posnette, 1957  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 Bhargava, K.S., 1951  
 Doolittle, S.P. and F.L. Wellman, 1934  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Fulton, Robert W., 1941  
 Wellman, F.L., 1935  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Houston, Byron R. and John W. Oswald, 1953  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Snyder, William C. and Saul Rich, 1942  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Anderson, C.W., 1954  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato big bud  
 Helms, Katie, 1957  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945  
 A. graveolens var. dulce, DC.  
 V. aster yellows  
 Freitag, J.H., 1956  
 Magie, R.O., Floyd F. Smith and Philip Brierley, 1952  
 Raymer, W.B., 1956  
 Severin, Henry H.P., 1928, 1929, 1930, 1932, 1934  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 Severin, Henry H.P. and Sidney J. Oliver, 1939  
 Smith, Floyd F. and Philip Brierley, 1953  
 V. beet curly top  
 Severin, Henry H.P., 1928, 1929  
 V. celery mosaic  
 Bardin, Roy, 1947  
 Freitag, Julius H. and Henry H.P. Severin, 1939  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 Poole, R.F., 1922  
 Severin, Henry H.P. and Julius H. Freitag, 1935, 1938  
 V. (celery) pseudo-calico  
 Freitag, Julius H. and Henry H.P. Severin, 1939  
 V. celery yellow spot  
 Freitag, Julius H. and Henry H.P. Severin, 1939
- A. graveolens var. dulce, DC. (cont.)  
 V. celery yellow spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. cucumber mosaic  
 Anderson, C.W., 1951  
 Severin, Henry H.P., 1950  
 Simons, John N., 1955, 1957  
 Wellman, F.L., 1934  
 Whipple, O.C. and J.C. Walker, 1941  
 V. lucerne mosaic  
 Houston, Byron R. and John W. Oswald, 1951  
 Oswald, John W., 1950  
 Severin, Henry H.P., 1950  
 Severin, Henry H.P. and Julius H. Freitag, 1935  
 Swenson, K.G., 1952  
 V. peach western X disease  
 Jensen, D.D., 1955, 1957  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1939, 1945  
 V. tobacco ring spot  
 Severin, Henry H.P., 1950  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 Sakimura, K., 1940  
 V. cucumber western mosaic \*  
 Severin, Henry H.P., 1950  
 Severin, Henry H.P. and Julius H. Freitag, 1948
- A. graveolens var. rapaceum, DC.  
 V. aster yellows  
 Severin, Henry H.P., 1929, 1932  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1938  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- A. leptophyllum, (DC.) F. Muell. ex Benth.  
 V. carrot motley dwarf  
 Stubbs, L.L., 1955
- APOCYNUM ((Tourn.)) L. 1735 (Apocynaceae)  
 A. androsaemifolium, L.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957
- AQUILEGIA ((Tourn.)) L. 1735 (Ranunculaceae)  
 A. caerulea, James  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940
- A. vulgaris, L.  
 V. cucumber mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ARABIS L. 1737 (Cruciferae)  
 A. hirsuta, (L.) Scop.  
 V. arabis mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944
- ARACHIS L. 1735 (Leguminosae)  
 A. hypogaea, L.  
 V. groundnut mosaic  
 Cooper, W.E., 1950  
 V. groundnut rosette  
 Evans, A.C., 1954

- A. hypogaeae, L. (cont.)  
 V. groundnut rosette  
 McKinney, H.H., 1929  
 Storey, H.H. and A.M. Bottomley, 1928  
 Storey, H.H. and Audrie K. Ryland, 1955, 1957  
 V. groundnut witches' broom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco necrosis  
 Fulton, Robert W., 1950
- ARANDA \* (Orchidaceae)  
 A. spp. (*Arachnis hookeriana* x *Vanda sanderiana*)  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952
- ARCTIUM L. 1735 (Compositae)  
 A. lappa, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot no. 2  
 Wilkinson, R.E., 1952a  
 A. minus, Bernh.  
 V. tobacco streak  
 Fulton, Robert W., 1948
- ARCTOTIS L. 1737 (Compositae)  
 A. stoechadifolia, Berg.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- ARENARIA Rupp. ex L. 1735 (Caryophyllaceae)  
 A. montana, L.  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957
- ARISTIDA L. 1753 (Gramineae)  
 A. oligantha, Michx.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- ARMORACIA Gaertn., Mey. & Scherb. 1800 (Cruci-  
 A. rusticana, Gaertn., Mey. & Scherb. ferae)  
 V. beet curly top  
 Severin, Henry H.P., 1929  
 V. turnip mosaic  
 Dana, B.F. and F.P. McWhorter, 1932  
 Hoggan, I.A. and J. Johnson, 1935  
 Pound, Glenn S., 1948, 1949
- ARRACACIA Bancroft. 1826 (Umbelliferae)  
 (ARRACACHA) DC. 1829  
 A. esculenta, DC.  
 V. citrus tristeza  
 Costa, A.S. and T.J. Grant, 1951
- ARTEMISIA L. 1735 (Compositae)  
 A. vulgaris, L., var. heterophylla, Jepson  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- ARUM ((Tourn.)) L. 1735 (Araceae)  
 A. palaestinum, Boiss.  
 V. tomato spotted wilt  
 Tompkins, C.M. and Henry H.P. Severin, 1950
- ASCLEPIAS L. 1737 (Asclepiadaceae)  
 A. curassavica, L.  
 V. cucumber mosaic  
 Silberschmidt, K., 1955  
 A. nivea, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 A. syriaca, L.  
 V. asclepias yellows \*  
 Kunkel, L.O., 1950  
 V. carnation mosaic  
 Gasiorkiewicz, E.C., 1954  
 V. cucurbit mosaic \*  
 Doolittle, S.P., 1921  
 Doolittle, S.P. and M.N. Walker, 1922, 1924,  
 1925  
 V. milkweed mosaic \*  
 Newhall, A.G., 1923
- A. syriaca, L. (cont.)  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. strawberry mottle  
 Smith, Harlan E. and J. Duain Moore, 1952  
 V. tobacco streak  
 Fulton, Robert W., 1948
- ASPERULA L. 1735 (Rubiaceae)  
 A. odorata, L.  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- ASTER Tourn. ex L. 1735 (Compositae)  
 A. amellus, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tobacco ring spot  
 Pound, Glenn S., 1949  
 A. chilensis, Nees  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945  
 A. dumosus, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 A. laevis, L.  
 V. tobacco ring spot  
 Fulton, Robert W., 1941  
 Wingard, S.A., 1928  
 A. novae-angliae, L.  
 V. aster yellows  
 George, J.A. and J.K. Richardson, 1957  
 A. spp.  
 V. tobacco ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick et al., 1958  
 V. tomato bushy stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick et al., 1958
- ASTRAGALUS Tourn. ex L. 1737 (Leguminosae)  
 A. chinensis, L.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 A. falcatus, Lam.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 A. glycyphyllus, L.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
 A. mortoni, Nutt.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 A. rubyi, Greene & Morris  
 V. pea enation mosaic  
 Hagedorn, D.J., 1957  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957
- ATRIPLEX ((Tourn.)) L. 1735 (Chenopodiaceae)  
 A. argentea, Nutt. subsp. expansa, Hall & Clements  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson,  
 1928  
 Severin, Henry H.P. and Byron R. Houston, 1945  
 A. argentea var. hillmanii, Jones  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 A. bracteosa, S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson,  
 1928

- A. bracteosa*, S. Wats. (cont.)  
 V. beet curly top  
 Severin, Henry H.P. and Byron R. Houston, 1945  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. canescens*, (Pursh) Nutt.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. cordulata*, Jepson  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. coronata*, S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. coulteri*, D. Dietr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. elegans*, (Moq.) D. Dietr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. expansa*, (Det. H) S. Wats.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. fruticulosa*, Jepson  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. hortensis*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. hortensis* var. *rubra*, L. \*  
 V. beet curly top  
 Severin, Henry H.P., 1934
- A. lentiformis*, (Torr.) S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. microcarpa*, D. Dietr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. nitens*, Schkuhr  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961
- A. parishii*, S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. patula*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. patula* var. *hastata*, A. Gray  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. phyllostegia*, S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. rosea*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- A. rosea*, L. (cont.)  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. semibaccata*, R. Br.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. siberica*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. spongiosa*, F. Muell.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- A. tularensis*, Coult.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- ATROPA L. 1737 (Solanaceae)  
*A. belladonna*, L.  
 V. atropa belladonna mosaic  
 R.A.M. 22: 451, 1943  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. henbane mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Larson, R.H., 1944  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- AVENA L. 1735 (Gramineae)  
*A. barbata*, Brot.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- A. byzantina*, C. Koch.  
 V. brome mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. oat pseudo-rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. soil-borne oat mosaic  
 McKinney, H.H., 1946  
 V. wheat streak mosaic  
 McKinney, H.H., 1949
- A. fatua*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1952, 1953  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. ryegrass mosaic \*  
 Bruehl, G.W., H. Toko and H.H. McKinney, 1957  
 V. wheat streak mosaic  
 Slykhuis, John T., 1955
- A. festuca* \*  
 V. oat pseudo-rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- A. sativa*, L.  
 V. barley stripe mosaic  
 McKinney, H.H., 1953  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. barley yellow dwarf  
 Allen, Thomas C., Jr., 1956, 1957  
 Allen, Thomas C., Jr. and Byron R. Houston, 1956  
 Bruehl, G.W. and H. Toko, 1955, 1957  
 Endo, R.M., 1957  
 Moore, M.B., 1952  
 Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
 Oswald, John W. and T.H. Thung, 1955  
 Takeshita, R.M., 1956  
 Toko, H.V. and G.W. Bruehl, 1957

- A. sativa, L. (cont.)  
 V. barley yellow dwarf  
 Watson, Marion A. and T. Mulligan, 1957  
 Wilson, V.E. and H.C. Murphy, 1953  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. brome mosaic  
 McKinney, H.H., 1944, 1953  
 McKinney, H.H., H. Fellows and C.O. Johnston, 1942  
 V. grass orchard mosaic \*  
 McKinney, H.H., 1956  
 V. maize streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. (oat) blue dwarf \*  
 Moore, M.B., 1952  
 V. oat pseudo-roseette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rice dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. soil-borne oat mosaic  
 Hadden, S.J. and H.F. Harrison, 1955  
 McKinney, H.H., 1946  
 Moseman, J.G., U.R. Gore and H.H. McKinney, 1953  
 V. tobacco necrosis  
 Fulton, J.P., 1952  
 V. wheat streak mosaic  
 Finley, A.M., 1957  
 Houston, Byron R. and John W. Oswald, 1952  
 McKinney, H.H., 1949  
 Slykhuis, J.T., 1952, 1955  
 V. wheat striate mosaic  
 Slykhuis, J.T., 1953  
 Slykhuis, John T. and Marion A. Watson, 1958  
 A. sativa var. orientalis (Schreb.) Richter  
 V. wheat streak mosaic  
 McKinney, H.H., 1949  
 A. spp.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 A. sterilis, L.  
 V. oat pseudo-roseette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 A. strigosa, Schreb.  
 V. barley yellow dwarf  
 Endo, R.M., 1957  
 V. oat pseudo-roseette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 BABIANA Ker-Gawl. 1802 (Iridaceae)  
 B. spp.  
 V. babiana mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 BACCHARIS L. 1737 (Compositae)  
 B. pilularis, DC.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 BAERIA Fisch. & Mey. 1835 (Compositae)  
 B. uliginosa, (Nutt.) A. Gray  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 BARBAREA R. Br. 1812 (Cruciferae)  
 B. barbarea, MacMill.  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 B. verna, Asch.  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 B. vulgaris, R. Br.  
 V. beet curly top  
 Severin, Henry H.P., 1929  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 B. vulgaris, R. Br. (cont.)  
 V. potato yellow dwarf  
 Hansing, E.D., 1942  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Pound, Glenn S., 1948  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 BASSIA All. 1766 (Chenopodiaceae)  
 B. hyssopifolia, (Pall.) Ktze.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 BECKMANNIA Host 1805 (Gramineae)  
 B. syzigachne, (Steud.) Fern.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 BEGONIA ((Tourn.)) L. 1742 (Begoniaceae)  
 B. semperflorens, Link & Otto  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 V. turnip mosaic  
 Tompkins, C.M., 1938  
 BELAMCANDA Adans. 1763 (Iridaceae)  
 B. chinensis, (L.) DC.  
 V. iris bearded mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948  
 Travis, R.V., 1957  
 V. iris beardless mosaic \*  
 Travis, R.V., 1957  
 V. iris fulva mosaic \*  
 Travis, R.V., 1957  
 V. iris spuria mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948  
 BELLIS ((Tourn.)) L. 1737 (Compositae)  
 B. perennis, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 BENINCASA Savi 1818 (Cucurbitaceae)  
 B. cerifera, Savi  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 B. hispida, Cogn.  
 V. cucumber mosaic  
 Jagger, I.C., 1918  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 BERBERIS ((Tourn.)) L. 1737 (Berberidaceae)  
 B. thunbergii, DC.  
 V. cucumber mosaic  
 Wilkinson, R.E., 1953  
 BERTEROA DC. 1821 (Cruciferae)  
 B. incana, (L.) DC.  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941



- B. incana*, (L.) DC. (cont.)  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- BETA ((Tourn.)) L. 1735 (Chenopodiaceae)
- B. atriplicifolia*, Rouy.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. cicla viridis*, L. \*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. hybrida*, Andr. ex Trautv.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. lomatogona*, Fish. & Mey.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. macrocarpa*, Guss.  
 V. beet curly top  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Costa, A.S., 1952  
 Giddings, N.J., 1944  
 V. beet yellows  
 Costa, A.S. and C.W. Bennett, 1955  
 Roland, G. and J. Tahon, 1961
- B. maritima*, L.  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellows  
 Costa, A.S. and C.W. Bennett, 1955  
 Roland, G. and J. Tahon, 1961
- B. patellaris*, Moq.  
 V. beet curly top  
 Costa, A.S., 1952  
 Giddings, N.J., 1944  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco streak  
 Costa, A.S., 1952
- B. patula*, ((Soland. in) Ait. Hort. Kew.)  
 V. beet curly top  
 Costa, A.S., 1952  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. procumbens*, Chr. Sm.  
 V. beet yellows  
 Costa, A.S. and C.W. Bennett, 1955  
 Roland, G. and J. Tahon, 1961
- B. trigyna*, Waldst. & Kit.  
 V. beet curly top  
 Giddings, N.J., 1944  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- B. vulgaris*, L.  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. beet curly top  
 Bennett, C.W., 1934, 1937, 1944, 1951, 1955  
 Bennett, C.W., Eubanks Carsner, G.H. Coons and E.W. Brandes, 1946  
 Bennett, C.W. and A.S. Costa, 1949  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Carsner, Eubanks, 1919, 1926, 1938  
 Carsner, Eubanks and C.F. Stahl, 1924  
 Costa, A.S., 1952  
 Esau, Katherine, 1930  
 Fawcett, G.L., 1927  
 Giddings, N.J., 1938, 1940, 1941, 1944, 1946, 1952, 1954  
 Johnson, Folke, 1941  
 Jones, Leon K., 1931  
 Lackey, C.F., 1932, 1937, 1941, 1942, 1951  
 Menzies, J.D. and N.J. Giddings, 1953  
 Mumford, Edward Philpott, 1930  
 Owen, F.V., Albert M. Murphy and Bion Tolman, 1942  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- B. vulgaris*, L. (cont.)  
 V. beet curly top  
 Severin, Henry H.P. and Byron R. Houston, 1945  
 Smith, R.E. and P.A. Bonquet, 1915  
 Thornberry, H.H. and R.M. Takeshita, 1954  
 V. beet leaf curl  
 Bonquet, P.A., 1923  
 Coons, G.H., J.E. Kotila and D. Stewart, 1937  
 Hildebrand, A.A. and L.W. Koch, 1942  
 Severin, Henry H.P., 1924  
 V. beet mosaic  
 Bawden, F.C., Brenda M.G. Hamlyn and Marion A. Watson, 1954  
 Bennett, C.W., 1944  
 Doncaster, J.P. and B. Kassanis, 1946  
 Hale, J.B., Marion A. Watson and R. Hull, 1946  
 Hoggan, I.A., 1933  
 Jones, Leon K., 1931  
 McLean, D.M., 1952  
 Pound, Glenn S., 1947  
 Robbins, W.W., 1921  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 Sylvester, Edward S., 1947, 1949, 1950, 1952  
 Watson, Marion A., R. Hull, J.W. Blencowe and Brenda M.F. Hamlyn, 1951  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet rosette \*  
 Bennett, C.W. and James E. Duffus, 1957  
 V. beet yellow net  
 Bennett, C.W., 1944, 1956  
 McLean, D.M., 1952  
 Sylvester, Edward S., 1948, 1949, 1950  
 V. beet yellow wilt  
 Bennett, C.W. and Carlos Munck, 1946  
 V. beet yellows  
 Bawden, F.C., Brenda M.G. Hamlyn and Marion A. Watson, 1954  
 Coons, G.H., 1952  
 Costa, A.S. and C.W. Bennett, 1955  
 Doncaster, J.P. and B. Kassanis, 1946  
 Dufrenoy, Jean, 1940  
 Hale, J.B., Marion A. Watson and R. Hull, 1946  
 Kassanis, B., 1949  
 McLean, D.M., 1952, 1953  
 Roland, G. and J. Tahon, 1961  
 Watson, Marion A., 1942  
 Watson, Marion A., R. Hull, J.W. Blencowe and Brenda M.F. Hamlyn, 1951  
 Watson, Marion A. and G.E. Russell, 1956  
 V. brome mosaic  
 McKinney, H.H., 1953  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. cucumber mosaic  
 Anderson, C.W., 1951  
 Bennett, C.W., 1944  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Bhargava, K.S., 1951  
 Fulton, Joseph P., 1950  
 Harrison, B.D., 1958  
 Hoggan, I.A., 1933  
 Johnson, E.M., 1930  
 Severin, Henry H.P., 1948  
 Wellman, F.L., 1934, 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H.P. and Julius H. Freitag, 1948  
 V. delphinium ring spot  
 Severin, Henry H.P. and R.C. Dickson, 1942  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 V. lucerne mosaic  
 Price, W.C., 1940  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Severin, Henry H.P., 1948  
 V. potato paracrinkle  
 Kassanis, B., 1955

- B. vulgaris*, L. (cont.)  
 V. potato X  
 Johnson, E.M., 1930  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1958  
 V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Priode, C.N., 1928  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. tomato big bud  
 Helms, Katie, 1957  
 Hill, A.V. and M. Mandryk, 1954  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*B. vulgaris* var. *cicla*, (L.) Moq.  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet mosaic  
 McLean, D.M., 1952  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellow net  
 McLean, D.M., 1952  
 Sylvester, Edward S., 1948  
 V. beet yellow wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. beet yellows  
 McLean, D.M., 1953  
 V. brome mosaic  
 McKinney, H.H., 1953  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Bhargava, K.S., 1951  
 Fulton, Joseph P., 1950  
 Nienow, Inez, 1948  
 Simons, John N., 1955, 1957  
 Wellman, F.L., 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H.P. and Julius H. Freitag, 1948  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*B. vulgaris* var. *macrorhiza* \*  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, G.H. Coons and E.W. Brandes, 1946  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
*B. webbiana*, Moq.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*BIDENS* ((Tourn.)) L. 1737 (Compositae)  
*B. discoidea*, (Torr. & Gray) Brit.  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
*B. frondosa*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
*B. pilosa*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
*BIGNONIA* ((Tourn.)) L. 1735 (Bignoniaceae)  
*B. capreolata*, L.  
 V. tobacco necrosis  
 Price, W.C., 1940  
*BOLTONIA* L'Herit. 1788 (Compositae)  
*B. latisquama*, A. Gray  
 V. prunus B \*  
 Fulton, Robert W., 1957  
*BOMBAX* L. 1753 (Bombacaceae)  
*B. buonopozense*, Beauv.  
 V. cacao swollen shoot  
 Attafuah, A. and T.W. Tinsley, 1958  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958  
*B. malabaricum*, DC.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*BORAGO* L. 1753 (Boraginaceae)  
*B. officinalis*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1929  
*BOUTELOUA* Lag. 1805 (Gramineae)  
*B. curtipendula*, (Michx.) Torr.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
*B. hirsuta*, Lag.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
*BRACHIARIA* Griseb. 1853 (Gramineae)  
*B. platyphylla*, Nash  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*BRACHYCOMBE*  
 (BRACHYCOMBE) Cass. 1825 (Compositae)  
*B. iberidifolia*, Benth.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. clover big vein  
 Black, L.M., 1945  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945  
*BRACHYSTEGIA* Benth. 1865 (Leguminosae)  
*B. burtii*, Hoyle ex C.H.N. Jackson  
 V. groundnut rosette  
 Evans, A.C., 1954  
*BRASSICA* ((Tourn.)) L. 1735 (Cruciferae)  
 (SINAPIS) L. 1735  
*B. adpressa*, Boiss.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938

- B. adpressa*, Boiss. (cont.)  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 Tompkins, C.M. and H. Rex Thomas, 1938
- V. dodder latent mosaic  
 Bennett, C.W., 1949
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. tobacco yellow dwarf  
 Helson, G.A.H., 1950
- V. turnip mosaic  
 Bennett, C.W., 1944  
 Tompkins, C.M., 1938, 1939
- B. campestris*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. radish mosaic  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955
- V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Tompkins, C.M., 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- B. campestris* var. *napobrassica*, (L.) DC.  
 V. beet ring spot \*  
 Harrison, B.D., 1957
- V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner, and H. Rex Thomas, 1937, 1938
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937
- V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954
- V. tobacco mosaic  
 Holmes, Francis O., 1946
- V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Tompkins, C.M., 1938
- B. carinata*, A. Braun  
 V. turnip mosaic  
 Takahashi, William N., 1949
- V. turnip yellow mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. chinensis*, L.  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953
- V. rape savoy  
 Ling, Lee and Juhwa Y. Yang, 1940
- V. turnip mosaic  
 Clayton, E.E., 1930  
 Dale, W.T., 1948  
 Sylvester, Edward S., 1953  
 Sylvester, Edward S. and John N. Simons, 1951  
 Takahashi, William N., 1949
- B. hirta*, Moench, (B. alba, (L.) Rabh.)  
 V. anemone mosaic \*  
 Hollings, M., 1957
- V. aster yellows  
 Severin, Henry H.P., 1934
- V. beet curly top  
 Severin, Henry H.P., 1929
- V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- B. hirta*, Moench, (B. alba, (L.) Rabh.) (cont.)  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. radish mosaic  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939
- V. tobacco mosaic  
 Grant, T.J., 1934
- V. turnip mosaic  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- (*S. alba*, L.)  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip mosaic  
 Berkeley, G.H. and M. Weintraub, 1952
- V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- B. incana*, (L.) F.W. Schultz \*  
 V. dodder latent mosaic  
 Bennett, C.W., 1944
- B. juncea* (L.) Coss (B. japonica, Hort.)  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948
- V. radish mosaic  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Takahashi, William N., 1952  
 Tompkins, C.M., 1939
- V. rape savoy  
 Ling, Lee and Juhwa Y. Yang, 1940
- V. turnip mosaic  
 Dale, W.T., 1948  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Schultz, E.S., 1921  
 Sylvester, Edward S., 1950, 1953, 1954  
 Sylvester, Edward S. and John N. Simons, 1951  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- B. kaber*, (DC.) L.C. Wheeler (B. arvensis (L.) Rabh.)  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner, and H. Rex Thomas, 1937, 1938
- V. cauliflower mosaic  
 Tompkins, C.M., 1937
- V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942
- V. tobacco streak  
 Fulton, Robert W., 1948
- V. turnip crinkle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. turnip mosaic  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- V. turnip yellow mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- B. kaber, (DC.) L.C. Wheeler (*B. arvensis* (L.) Rabh.) (Cont.)  
(*S. arvensis*, L.)
- V. cauliflower mosaic  
Caldwell, John and Ian W. Prentice, 1942
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
- B. kaber var. *pinnatifida* (Stokes), L.C. Wheeler
- V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. turnip mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- B. muralis, Huds.
- V. cabbage black ring spot  
Hamlyn, Brenda M.G., 1953
  - V. cauliflower mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. napus, L.
- V. anemone mosaic \*  
Hollings, M., 1957
  - V. cabbage black ring spot  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. cauliflower mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C.M., 1937  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. cucumber mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Pound, Glenn S. and J.C. Walker, 1948
  - V. rape savoy  
Ling, Lee and Juhwa Y. Yang, 1940
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
  - V. turnip mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
Clayton, E.E., 1930  
Dale, W.T., 1948  
LeBeau, Francis J. and J.C. Walker, 1945  
Pound, Glenn S., 1949  
Takahashi, William N., 1949  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- B. napus var. *biennis*, (Schubl. & Mart.) Reichb. \*
- V. turnip mosaic  
Sylvester, Edward S., 1953
- B. nigra, (L.) Koch
- V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. cauliflower mosaic  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. cucumber mosaic  
Pound, Glenn S. and J.C. Walker, 1948
  - V. radish mosaic  
Raychaudhuri, S.P. and P.S. Pathanian, 1955  
Tompkins, C.M., 1939
  - V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
- B. nigra, (L.) Koch
- V. turnip mosaic  
Berkeley, G.H. and M. Weintraub, 1952  
Clayton, E.E., 1930  
Dana, B.F. and F.P. McWhorter, 1932  
Hoggan, I.A. and J. Johnson, 1935  
LeBeau, Francis J. and J.C. Walker, 1945  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C.M., 1939  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
- B. oleracea, L.
- V. radish mosaic  
Raychaudhuri, S.P. and P.S. Pathanian, 1955
  - V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
  - V. turnip mosaic  
Takahashi, William N., 1949
- B. oleracea var. *acephala*, DC.
- V. beet curly top  
Severin, Henry H.P., 1929
  - V. cabbage black ring spot  
Broadbent, L., 1954  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C.M., 1934, 1937
  - V. crucifer ring spot \*  
Smith, Kenneth M., 1935
  - V. cucumber mosaic  
Pound, Glenn S. and J.C. Walker, 1948
  - V. radish mosaic  
Tompkins, C.M., 1939
- B. oleracea var. *botrytis*, L.
- V. aster yellows  
Severin, Henry H.P. and Julius H. Freitag, 1945
  - V. beet curly top  
Severin, Henry H.P., 1929
  - V. cabbage black ring spot  
Broadbent, L., 1954  
Broadbent, L. and T.W. Tinsley, 1953  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner, and H. Rex Thomas, 1937, 1938
  - V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Broadbent, L., 1954  
Broadbent, L. and T.W. Tinsley, 1953  
Caldwell, John and Ian W. Prentice, 1942  
Jenkinson, J.G., 1955  
Severin, Henry H.P. and C.M. Tompkins, 1948  
Tompkins, C.M., 1934, 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. cucumber mosaic  
Pound, Glenn S. and J.C. Walker, 1948
  - V. radish mosaic  
Raychaudhuri, S.P. and P.S. Pathanian, 1955  
Tompkins, C.M., 1939
  - V. tomato spotted wilt  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
Clayton, E.E., 1930  
LeBeau, Francis J. and J.C. Walker, 1945  
Pound, Glenn S., 1948  
Tompkins, C.M., 1938  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

- B. oleracea var. botrytis, L. (cont.)  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 Croxall, H.E., D.C. Gwynne and L. Broadbent, 1953
- B. oleracea var. bullata, L. \*  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953
- B. oleracea var. capitata, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957
- V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- V. beet curly top  
 Severin, Henry H.P., 1929
- V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 Pound, Glenn S., 1952  
 Pound, Glenn S. and J.C. Walker, 1951  
 Tompkins, C.M., M.W. Gardner, and H. Rex Thomas, 1937, 1938
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941
- V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Natti, J.J., 1956  
 Pound, Glenn S., 1946, 1947, 1952  
 Pound, Glenn S. and J.C. Walker, 1951  
 Tompkins, C.M., 1934, 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. crucifer ring spot \*  
 Smith, Kenneth M., 1935
- V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948
- V. radish mosaic  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939
- V. tobacco broad ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco necrosis  
 Fulton, Robert W., 1950
- V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Natti, J.J., 1956  
 Pound, Glenn S., 1946, 1947, 1948  
 Tompkins, C.M., 1938  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- B. oleracea var. caulorapa, DC.  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. turnip yellow mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. oleracea var. gemmifera, DC.  
 V. cabbage black ring spot  
 Broadbent, L., 1954  
 Hamlyn, Brenda M.G., 1953  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- B. oleracea var. gemmifera, DC. (cont.)  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Severin, Henry H.P. and C.M. Tompkins, 1948  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. crucifer ring spot \*  
 Smith, Kenneth M., 1935
- V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 Croxall, H.E., D.C. Gwynne and L. Broadbent, 1953
- B. oleracea var. gongylodes, L.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948
- V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- B. oleracea var. italica, Plenck. \*  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953
- V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. turnip yellow mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. oleracea var. subauda, L. \*  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942
- B. oleracea var. viridis, L.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937
- V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- B. pekinensis, (Lour.) Rupr.  
 V. anemone mosaic \*  
 Hollings, M., 1957
- V. beet curly top  
 Costa, A.S., 1952
- V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957

- B. *pekinensis*, (Lour.) Rupr. (cont.)
- V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. cucumber mosaic  
Pound, Glenn S. and J.C. Walker, 1948
- V. radish mosaic  
Tompkins, C.M., 1939
- V. rape savoy  
Ling, Lee and Juhwa Y. Yang, 1940
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
- V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
- V. turnip mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
LeBeau, Francis J. and J.C. Walker, 1945  
Schultz, E.S., 1921  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- B. *rapa*, L.
- V. anemone mosaic \*  
Hollings, M., 1957
- V. beet curly top  
Severin, Henry H.P., 1929
- V. beet ring spot \*  
Harrison, B.D., 1957
- V. cabbage black ring spot  
Bawden, F.C., Brenda M.G. Hamlyn and Marion A. Watson, 1954  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938
- V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
- V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Hamlyn, Brenda M.G., 1955  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. cucumber mosaic  
Wellman, F.L., 1935
- V. radish mosaic  
Raychaudhuri, S.P. and P.S. Pathanian, 1955  
Takahashi, William N., 1952  
Tompkins, C.M., 1939
- V. rape savoy  
Ling, Lee and Juhwa Y. Yang, 1940
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
- V. tobacco mosaic  
Grant, T.J., 1934
- V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- V. turnip mosaic  
Berkeley, G.H. and M. Weintraub, 1952  
Clayton, E.E., 1930  
Dale, W.T., 1948  
Dana, B.F. and F.P. McWhorter, 1932  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gardner, Max W. and James B. Kendrick, 1921  
Hoggan, I.A. and J. Johnson, 1935
- B. *rapa*, L. (cont.)
- V. turnip mosaic  
LeBeau, Francis J. and J.C. Walker, 1945  
Schultz, E.S., 1921  
Sylvester, Edward S., 1953  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- B. spp.
- V. cabbage ring necrosis  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. mustard (black) ring spot \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- BRASSOCATTLEYA X, Rolfe 1889 (Orchidaceae)
- B. *dietrichiana* \*  
V. orchid (cymbidium) mosaic  
Jensen, D.D. and A.H. Gold, 1955
- BROMUS Dill. ex L. 1735 (Gramineae)
- B. *brizaeformis*, Fisch. & Mey.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- B. *carinatus*, Hook. & Arn.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- B. *catharticus*, Vahl  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- V. lucerne dwarf  
Freitag, J.H., 1951
- B. *commutatus*, Schrad.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- V. ryegrass mosaic \*  
Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- B. *erectus*, Huds.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- B. *inermis*, Leyss  
V. barley stripe mosaic  
McKinney, H.H., 1951, 1953
- V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1953
- V. brome mosaic  
McKinney, H.H., 1953  
McKinney, H.H., H. Fellows and C.O. Johnston, 1942
- V. oat pseudo-rosette  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. *japonicus*, Thunb.  
V. barley stripe mosaic  
Slykhuis, J.T., 1952
- V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- V. wheat streak mosaic  
McKinney, H.H. and Hurley Fellows, 1951  
Slykhuis, J.T., 1952, 1955
- B. *mollis*, L.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- V. ryegrass mosaic \*  
Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- B. *racemosus*, L.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- V. ryegrass mosaic \*  
Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- B. *rigidus*, Roth.  
V. barley yellow dwarf  
Allen, Thomas C., Jr. and Byron R. Houston, 1956

- B. rigidus*, Roth (cont.)  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951
- B. rubens*, L.  
*V. barley yellow dwarf*  
 Oswald, John W. and Byron R. Houston, 1953
- B. secalinus*, L.  
*V. barley stripe mosaic*  
 Slykhuis, J. T., 1952  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
*V. ryegrass mosaic* \*  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957  
*V. wheat streak mosaic*  
 Slykhuis, J. T., 1952, 1955
- B. spp.*  
*V. barley yellow dwarf*  
 Oswald, John W. and Byron R. Houston, 1952  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951
- B. sterilis*, L.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957
- B. tectorum*, L.  
*V. barley stripe mosaic*  
 Slykhuis, J. T., 1952  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*V. ryegrass mosaic* \*  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957  
*V. wheat streak mosaic*  
 Slykhuis, J. T., 1952, 1955
- B. tomentellus*, Boiss.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957
- BROWALLIA* L. 1737 (Solanaceae)  
*B. americana*, L. (*B. demissa*, L.)  
*V. aster yellows*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tomato spotted wilt*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- B. elata*, L.  
*V. potato M* \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
*V. potato paracrinkle*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
*V. prunus B* \*  
 Fulton, Robert W., 1957
- B. speciosa*, Hook.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. beet mosaic*  
 Bennett, C.W., 1949  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. potato X*  
 Dennis, R.W.G., 1939  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- B. speciosa* var. *major*, Hort.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938
- BRYONIA* L. 1735 (Cucurbitaceae)  
*B. dioica*, Jacq.  
*V. cucumber mosaic*  
 Ainsworth, G.C., 1935
- BRYONOPSIS* Arn. 1841 (Cucurbitaceae)  
*B. laciniosa*, Naud.  
*V. cucurbit mosaic* \*  
 Doolittle, S.P. and M.N. Walker, 1925
- BUDDLEIA* Hout. ex L. 1737 (Loganiaceae)  
*B. spp.*  
*V. cucumber mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CAJANUS* DC. 1813 (Leguminosae)  
*C. cajan*, (L.) Millsp.  
*V. groundnut rosette*  
 Evans, A.C., 1954  
*V. (legume) little leaf disease* \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*V. pigeon pea sterility mosaic*  
 Capoor, S.P., 1952
- C. indicus*, Spreng.  
*V. bean yellow mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. cucumber mosaic*  
 Dale, W.T., 1949
- CALANDRINIA* H.B. & K. 1823 (Portulacaceae)  
*C. grandiflora*, Lindl.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- C. menziesii*, Torr. & Gray  
*V. beet curly top*  
 Carsner, Eubanks and C.F. Stahl, 1924
- CALCEOLARIA* L. 1771 (Scrophulariaceae)  
*C. crenatiflora*, Cav.  
*V. aster yellows*  
 Kunkel, L.O., 1926
- C. spp.*  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CALENDULA* L. 1735 (Compositae)  
*C. officinalis*, L.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cabbage ring necrosis*  
 Larson, R.H. and J.C. Walker, 1940, 1941  
*V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957  
*V. chrysanthemum Q*  
 (K.M. Smith, 1957) R.E. Fitzpatrick et al., 1958  
*V. cucumber mosaic*  
 Nienow, Inez, 1948  
 Pound, Glenn S. and J.C. Walker, 1948  
 Price, W.C., 1940  
*V. lucerne mosaic*  
 Richardson, D.E. and T.W. Tinsley, 1956  
*V. lucerne witches' broom*  
 Helms, Katie, 1957  
*V. tobacco broad ring spot*  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco ring spot*  
 Fulton, Robert W., 1941  
 Pound, Glenn S., 1949  
 Wingard, S.A., 1928  
*V. tomato aspermy*  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
*V. tomato big bud*  
 Helms, Katie, 1957  
*V. turnip mosaic*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. vaccinium false blossom*  
 Kunkel, L.O., 1945

- C. spp.  
 V. aster yellows  
 Severin, Henry H.P., 1934
- CALLISTEPHUS Cass. 1825 (Compositae)  
 C. chinensis, (L.) Nees  
 V. aster yellows  
 Black, L.M., 1941  
 Brierley, Philip and Floyd F. Smith, 1957  
 Freitag, Julius H., 1956  
 Johnson, Folke, 1941  
 Kunkel, L.O., 1924, 1926  
 Magie, R.O., Floyd F. Smith and Philip Brierley, 1952  
 Maramorosch, Karl, 1952, 1955  
 Raymer, W.B., 1956  
 Raymer, W.B. and Clark R. Amen, 1954  
 Severin, Henry H.P., 1929, 1932, 1934, 1940  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 Smith, Floyd F. and Philip Brierley, 1948, 1951, 1953  
 Younkin, S.G., 1943  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 V. chrysanthemum Q  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. hydrangea ring spot  
 Brierley, Philip and Floyd F. Smith, 1952  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. potato stem mottle  
 Van der Want, J.P.H., 1955  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. strawberry green petal  
 Frazier, N.W. and A.F. Posnette, 1957  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco ring spot  
 Anderson, C.W., 1954  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
 Hollings, M., 1955  
 V. tomato bushy stunt  
 Smith, Kenneth M., 1935  
 V. tomato spotted wilt  
 Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
 Gardner, M.W. and O.C. Whipple, 1934  
 Smith, Kenneth M., 1932  
 Tompkins, C.M. and M.W. Gardner, 1934  
 Whipple, O.C., 1936  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- C. hortensis, Cass.  
 V. cucumber mosaic  
 Govier, D.A., 1957
- CALOCHORTUS Pursh 1814 (Liliaceae)  
 C. spp.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- CALONYCTION Choisy 1833 (Convolvulaceae)  
 C. aculeatum, (L.) House  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 V. sweet potato foliage spotting disease \*  
 Holmes, Francis O., 1956  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- CAMELINA Crantz 1762 (Cruciferae)  
 C. sativa, (L.) Crantz  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- CAMELLIA L. 1735 (Theaceae)  
 C. japonica, L.  
 V. camellia yellow mottle leaf  
 Milbrath, J.A. and F.P. McWhorter, 1940  
 Plakidas, A.G., 1953, 1954  
 C. sasanqua, Thunb.  
 V. camellia yellow mottle leaf  
 Plakidas, A.G., 1953, 1954  
 C. thea, Link. \*  
 V. tea phloem necrosis  
 Bond, T.E.T., 1944
- CAMPANULA ((Tourn.)) L. 1735 (Campanulaceae)  
 C. americana, L.  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 C. drabifolia, Sibth. & Sm.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 C. medium, L.  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 C. pyramidalis, L.  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CANAVALIA DC. 1825 (Leguminosae)  
 C. ensiformis, (L.) DC.  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 C. gladiata, (Jacq.) DC.  
 V. cowpea mosaic  
 Anderson, C.W., 1955
- CANNA L. 1735 (Cannaceae)  
 C. edulis, Ker-Gawl.  
 V. canna mosaic  
 Celino, M.S. and G.O. Ocfemia, 1941  
 C. generalis, Bailey  
 V. aster yellows  
 Smith, Floyd F. and Philip Brierley, 1951  
 V. canna mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 C. glauca, L.  
 V. canna mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956



- C. indica*, L.  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. canna mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 Ocfemia, G.O., Isidro S. Macaspac and Hsieh Feng Yuan, 1941  
 V. cucumber mosaic  
 Celino, Martin S., 1940  
 Celino, M.S. and Aureo L. Martinez, 1956  
 Magee, C.J.P., 1940  
 V. tomato aspermy  
 Ocfemia, G.O., 1956
- C. spp.*  
 V. cucumber mosaic  
 Ocfemia, G.O. and Martin S. Celino, 1938  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- CAPSELLA Medic. 1792 (Cruciferae)  
 (Bursa) Weber 1780  
*C. bursa-pastoris*, (L.) Medik.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. clover big vein  
 Black, L.M., 1945  
 Lee, C.L., 1956  
 V. cucumber mosaic  
 Burnett, G., 1934  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. potato yellow dwarf  
 Hansing, E.D., 1942  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco broad ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tobacco ring spot  
 Pound, Glenn S., 1949  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Berkeley, G.H. and M. Weintraub, 1952  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- (*B. bursa-pastoris*), Shafer  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942
- CAPSICUM ((Tourn.)) L. 1735 (Solanaceae)  
*C. cerasiforme*, Mill.  
 V. tobacco mosaic  
 Allard, H.A., 1916
- C. frutescens*, L. (*C. annuum*, L.)  
 V. beet curly top  
 Costa, A.S., 1952  
 Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
 Severin, Henry H.P., 1929  
 V. carrot motley dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chilli veinbanding  
 Simons, J.N., 1956, 1957  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Anderson, C.W., 1951, 1955, 1957  
 Anderson, C.W. and M.K. Corbett, 1957  
 Berkeley, G.H., 1951, 1953  
 Doolittle, S.P., 1931  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Fulton, Robert W., 1941  
 Harter, L.L., 1938  
 Hoggan, Isme A., 1927  
 Hollings, M., 1955  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Simons, J.N., 1955, 1957  
 Wellman, F.L., 1935  
 Whipple, O.C. and J.C. Walker, 1941  
 V. cucurbit mosaic \*  
 Doolittle, S.P., 1921  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. eggplant mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 V. lovage mosaic  
 Smith, K.M. and Roy Markham, 1944  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Dykstra, T.P., 1939  
 Houston, Byron R. and John W. Oswald, 1953  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Oswald, John W., 1948, 1950  
 Porter, D.R., 1935  
 Price, W.C., 1940  
 Swenson, K.G., 1952  
 V. lupine disease \*  
 Weimer, J.L., 1950  
 V. (physalis) mosaic \*  
 Melhus, I.E., 1922  
 V. potato aucuba mosaic  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 Dennis, R.W.G., 1939  
 V. potato leaf roll  
 Dykstra, T.P., 1930  
 V. potato stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 Blodgett, F.M., 1927  
 Cockerham, George, 1943  
 Dennis, R.W.G., 1939  
 Hoggan, Isme A., 1927  
 Hoyman, Wm. G., 1951  
 Johnson, E.M., 1930  
 Johnson, J., 1925, 1927  
 Larson, R.H., 1947  
 Smith, J. Henderson, 1928  
 Vasudeva, R. Sahai and T.B. Lal, 1944  
 V. potato Y  
 Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
 Anderson, C.W. and M.K. Corbett, 1957  
 Bald, J.G. and D.O. Norris, 1945  
 Dennis, R.W.G., 1939  
 Dykstra, T.P., 1939

- C. frutescens*, L. (*C. annuum*, L.) (cont.)
- V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
Hoggan, Isme A., 1927  
Hutton, E.M. and J.W. Peak, 1952  
Johnson, E.M., 1930  
Johnson, J., 1927  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956
- V. sweet potato mosaic  
Elmer, O.H., 1957
- V. tobacco etch  
Anderson, C.W., 1954  
Anderson, C.W. and M.K. Corbett, 1957  
Doolittle, S.P., 1946  
Greenleaf, W.H., 1953, 1956  
Holmes, Francis O., 1942, 1946  
Johnson, E.M., 1930
- V. tobacco green mosaic  
Peterson, Paul D. and H.H. McKinney, 1938
- V. tobacco mosaic  
Abbott, E.V., 1931  
Ainsworth, G.C., 1933  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951  
Cox, C.E. and L.O. Weaver, 1950  
Dale, W.T., 1954  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Dykstra, T.P., 1939  
Greenleaf, W.H., 1953  
Heuberger, J.W., 1944  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1934, 1937, 1946  
Jensen, D.D., 1949  
Johnson, J., 1926, 1927  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
McKinney, H.H., 1929, 1952  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
Schwarze, C.A., 1914  
Stover, W.G. and M.T. Vermillion, 1933  
Woods, M.W. and Richard V. Eck, 1948
- V. tobacco necrosis  
Price, W.C., 1940
- V. tobacco ring spot  
Anderson, C.W., 1954  
Berkeley, G.H., 1951  
Steere, Russell L., 1956
- V. tobacco streak  
Fulton, Robert W., 1948
- V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
Hollings, M., 1955
- V. tomato bunchy top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
- V. tomato spotted wilt  
Ferguson, I.A.C., 1951  
Gardner, M.W. and O.C. Whipple, 1934  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
Smith, Kenneth M., 1932  
Tompkins, C.M. and M.W. Gardner, 1934  
Yu, T.F., 1947
- V. tomato twisted leaf  
Ferguson, I.A.C., 1951
- V. yam mosaic \*  
Adsuar, J., 1955
- C. frutescens* (*C. annuum*, L.) var. *cerasiforme*,  
V. cucumber mosaic Bailey
- Pound, Glenn S. and J.C. Walker, 1948
- C. frutescens* (*C. annuum*, L.) var. *conoides*, Irish  
V. cucumber mosaic  
Wellman, F.L., 1934
- C. frutescens* (*C. annuum*, L.) var. *Golden Dawn x* (var. *Golden Dawn x* var. *minimum*  
V. tobacco mosaic  
Holmes, Francis O., 1934
- C. frutescens* (*C. annuum*, L.) var. *Golden Dawn x*  
var. *minimum*  
V. tobacco mosaic  
Holmes, Francis O., 1934
- C. frutescens* (*C. annuum*, L.) var. *grossum*, Bailey  
V. beet curly top  
Costa, A.S., 1952  
V. chilli (pepper) mosaic  
Dale, W.T., 1954  
Ferguson, I.A.C., 1951  
V. cucumber mosaic  
Wellman, F.L., 1934, 1935  
V. tomato spotted wilt  
Sakimura, K., 1940
- C. frutescens* (*C. annuum*, L.) var. *longum*, Bailey  
V. chilli veinbanding  
Simons, J.N., 1956
- C. frutescens* (*C. annuum*, L.) var. *minimum* \*  
V. chilli (pepper) mosaic  
Dale, W.T., 1954  
Ferguson, I.A.C., 1951
- C. frutescens* (*C. annuum*, L.) var. *Tabasco x*  
var. *Ruby King*  
V. tobacco mosaic  
Holmes, Francis O., 1934
- C. microcarpum*, Cav.  
V. tobacco etch  
Greenleaf, W.H., 1953  
V. tobacco mosaic  
Greenleaf, W.H., 1953
- C. pendulum*, Willd.  
V. tobacco etch  
Greenleaf, W.H., 1953
- C. spp.*  
V. tobacco mosaic  
McKinney, H.H., 1928  
V. tomato spotted wilt  
Smith, K.M., 1931, 1932
- CARDAMINE ((Tourn.)) L. 1735 (Cruciferae)  
*C. hirsuta*, L.  
V. cabbage black ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CARDIOSPERMUM L. 1735 (Sapindaceae)  
*C. halicacabum*, L.  
V. beet curly top  
Freitag, Julius H. and Henry H.P. Severin, 1936  
V. tobacco ring spot  
Price, W.C., 1940
- CARICA L. 1737 (Caricaceae)  
*C. papaya*, L.  
V. papaw bunchy top  
Bird, Julio and Jose Adsuar, 1952  
V. papaw mosaic  
Adsuar, Jose, 1946, 1947  
V. papaw ring spot  
Holmes, Francis O., J.W. Hendrix, W. Ikeda, D.D. Jensen, R.C. Lindner, and W.B. Storey, 1948  
Jensen, D.D., 1949  
V. tobacco leaf curl  
Goenaga, Alvaro, 1945  
Nariani, T.K., 1956  
V. tobacco mosaic  
Holmes, Francis O., 1946
- CARTHAMUS ((Tourn.)) L. 1735 (Compositae)  
*C. tinctorius*, L.  
V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
V. prunus A \*  
Fulton, Robert W., 1957  
V. prunus B \*  
Fulton, Robert W., 1957  
V. prunus E \*  
Fulton, Robert W., 1957

- C. tinctorius*, L. (cont.)  
*V. prunus* G \*  
 Fulton, Robert W., 1957
- CARUM Rupp. ex L. 1735 (Umbelliferae)  
*C. carvi*, L.  
*V. celery* mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1938
- CARYA Nutt. 1818 (Juglandaceae)  
 (HICORIA) Rafin. 1838  
*C. illinoensis*, (Wang.) K. Koch  
*V. (pecan) bunch* \*  
 Cole, J.R., 1937  
 (H. aquatica), (Michx. f.) Nutt.  
*V. (pecan) bunch* \*  
 Cole, J.R., 1937
- CASSIA Tourn. ex L. 1735 (Leguminosae)  
*C. absus*, L.  
*V. groundnut* rosette  
 Evans, A.C., 1954  
*C. marilandica*, L.  
*V. prunus* E \*  
 Fulton, Robert W., 1957  
*C. tora*, L.  
*V. bean yellow* mosaic  
 Corbett, M.K., 1957  
*V. cowpea* mosaic  
 Anderson, C.W., 1954, 1955  
*V. potato* Y  
 Anderson, C.W., 1954  
*V. prunus* A \*  
 Fulton, Robert W., 1957  
*V. prunus* E \*  
 Fulton, Robert W., 1957  
*V. prunus* G \*  
 Fulton, Robert W., 1957  
*V. tobacco* etch  
 Anderson, C.W., 1954
- CATHARANTHUS G. Don 1836 (Apocynaceae)  
*C. roseus*, (L.) Don  
*V. cucumber* mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- CATTLEYA Lindl. 1824 (Orchidaceae)  
*C. mossiae*, Hook.  
*V. orchid (cattleya) mosaic*  
 Jensen, D.D., 1949  
*C. spp.*  
*V. orchid (cattleya) mosaic*  
 Murakishi, Harry H., 1952  
*V. orchid (cymbidium) mosaic*  
 Murakishi, Harry H. and M. Ishii, 1954  
*V. orchid (odontoglossum) ring spot*  
 Jensen, D.D. and A. Herbert Gold, 1952  
*V. tobacco* mosaic  
 Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
*C. trianaei*, Lind. & Reichb. f.  
*V. orchid (cattleya) mosaic*  
 Jensen, D.D., 1949  
*V. orchid (cymbidium) mosaic*  
 Jensen, D.D. and A. Herbert Gold, 1955  
*C. waltersiana* \*  
*V. orchid (cymbidium) mosaic*  
 Jensen, D.D. and A. Herbert Gold, 1955
- CEIBA Gaertn. (Bombacaceae)  
*C. cordifolia* \*  
*V. cacao* swollen shoot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*C. pentandra*, Gaertn.  
*V. cacao* swollen shoot  
 Attafuah, A. and T.W. Tinsley, 1958  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958
- CELERI Adans. 1763 (Umbelliferae)  
*C. graveolens*, Britton  
*V. cucumber* mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- CELOSIA L. 1737 (Amaranthaceae)  
*C. argentea*, L.  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961  
*V. chrysanthemum* latent \*  
 Hollings, M., 1957  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946  
*C. argentea* var. *cristata*, Kuntze  
*V. beet* curly top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961  
*V. carnation* ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
*V. cucumber* mosaic  
 Price, W.C., 1940  
*V. lucerne* mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
*V. potato* leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tomato* aspermy  
 Brierley, Philip, Floyd F. Smith and S.P.  
 Doolittle, 1955  
*V. turnip* mosaic  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*C. argentea* var. *plumosa* \*  
*V. turnip* crinkle  
 Broadbent, L. and G.D. Heathcote, 1958
- CENTAUREA L. 1737 (Compositae)  
*C. americana*, Nutt.  
*V. aster* yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946  
*C. cyanus*, L.  
*V. aster* yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953  
*V. cynarus* curly dwarf  
 Morton, Donald J., 1957  
*C. imperialis*, Hort.  
*V. aster* yellows  
 Kunkel, L.O., 1926, 1928  
*V. prunus* A \*  
 Fulton, Robert W., 1957  
*V. prunus* B \*  
 Fulton, Robert W., 1957  
*V. prunus* E \*  
 Fulton, Robert W., 1957  
*V. prunus* G \*  
 Fulton, Robert W., 1957  
*V. vaccinium* false blossom  
 Kunkel, L.O., 1945  
*C. margaritacea*, Ten.  
*V. aster* yellows  
 Kunkel, L.O., 1926  
*C. melitensis*, L.  
*V. aster* yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945

- C. montana*, L.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- C. moschata*, L.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. turnip mosaic*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- CERASTIUM ((Dill.)) L. 1735 (Caryophyllaceae)  
*C. spp.*  
*V. raspberry yellow dwarf* \*  
 Harrison, B.D., 1958
- C. viscosum*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961
- C. vulgatum*, L.  
*V. anemone mosaic* \*  
 Hollings, M., 1957  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938  
*V. tobacco streak*  
 Fulton, Robert W., 1948
- CHARIEIS Cass. 1817 (Compositae)  
*C. heterophylla*, Cass.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- CHAYOTA Jacq. 1780 (Cucurbitaceae)  
*C. edulis*, Jacq.  
*V. cucumber mosaic*  
 Wellman, F.L., 1935
- CHEIRANTHUS L. 1737 (Cruciferae)  
*C. allionii*, Hort.  
*V. aster yellows*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. cabbage ring necrosis*  
 Larson, R.H. and J.C. Walker, 1941  
*V. cucumber mosaic*  
 Pound, Glenn S. and J.C. Walker, 1948  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. turnip mosaic*  
 Pound, Glenn S., 1948
- C. cheiri*, L.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. cabbage black ring spot*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner, and H. Rex Thomas, 1937, 1938  
*V. cauliflower mosaic*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
*V. cucumber mosaic*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tomato black ring*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tomato spotted wilt*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
*V. turnip crinkle*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip mosaic*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. turnip rosette* \*  
 Broadbent, L. and G.D. Heathcote, 1958
- C. cheiri*, L. (cont.)  
*V. turnip yellow mosaic*  
 Broadbent, L. and G.D. Heathcote, 1958
- C. spp.*  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CHELIDONIUM Tourn. ex L. 1735 (Papaveraceae)  
*C. majus*, L.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946
- CHENOPODIUM ((Tourn.)) L. 1735 (Chenopodiaceae)  
*C. album*, L.  
*V. anemone mosaic* \*  
 Hollings, M., 1957  
*V. barley stripe mosaic*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*V. beet curly top*  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Carsner, E., 1919  
 Lackey, C.F., 1929  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
*V. beet leaf curl*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. beet mosaic*  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1947  
*V. beet yellows*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
*V. brome mosaic*  
 McKinney, H.H., 1953  
*V. cabbage black ring spot*  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
*V. carnation mosaic*  
 Brierley, Philip and Floyd F. Smith, 1957  
 Gasiorkiewicz, E.C., 1956  
*V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957  
*V. cucumber mosaic*  
 Fulton, Joseph P., 1950  
*V. dodder latent mosaic*  
 Bennett, C.W., 1944  
*V. hydrangea ring spot*  
 Brierley, Philip and Paul Lorentz, 1957  
*V. potato M* \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
*V. potato paracrinkle*  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
*V. potato X*  
 Thompson, A.D., 1956  
*V. radish mosaic*  
 Tompkins, C.M., 1939  
*V. tobacco broad ring spot*  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco etch*  
 Greenleaf, W.H., 1953  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946  
*V. tobacco ring spot*  
 Wingard, S.A., 1928  
*V. tobacco streak*  
 Fulton, Robert W., 1948  
*V. turnip crinkle*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip mosaic*  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- C. album* var. *viride*, (L.) Pursh  
*V. beet curly top*  
 Lackey, C.F., 1929
- C. amaranticolor*, Coste & Reyn.  
*V. anemone brown ring* \*  
 Hollings, M., 1957, 1958

- C. amaranticolor, Coste & Reyn. (cont.)
- V. anemone latent \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. anemone mosaic \*  
Hollings, M., 1956, 1957
  - V. barley stripe mosaic  
Hollings, M., 1957
  - V. bean yellow mosaic  
Hollings, M., 1957
  - V. beet curly top  
Bennett, C.W. and Aziz Tanrisever, 1957
  - V. beet mosaic  
Hollings, M., 1957
  - V. beet ring spot \*  
Harrison, B.D., 1957
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. broad bean mottle  
Hollings, M., 1957
  - V. cabbage black ring spot  
Hollings, M., 1956, 1957
  - V. carnation mosaic  
Brierley, Philip and Floyd F. Smith, 1957
  - V. carnation mottle  
Brierley, Philip and Floyd F. Smith, 1957  
Hollings, M., 1956
  - V. carnation ring spot  
Brierley, Philip and Floyd F. Smith, 1957  
Hollings, M., 1956
  - V. carnation vein mottle  
Hollings, M., 1956
  - V. chrysanthemum D \*  
Hollings, M., 1956
  - V. chrysanthemum latent \*  
Hollings, M., 1957
  - V. cucumber mosaic  
Harrison, B.D., 1958  
Hollings, M., 1955, 1956
  - V. dandelion yellow mosaic  
Hollings, M., 1956
  - V. dock mosaic  
Hollings, M., 1956
  - V. henbane mosaic  
Hollings, M., 1956
  - V. hydrangea ring spot  
Brierley, Philip and Paul Lorentz, 1956, 1957  
Hollings, M., 1957
  - V. iris mosaic  
Hollings, M., 1956
  - V. irisring spot \*  
Travis, R.V., 1957
  - V. lettuce mosaic  
Hollings, M., 1957
  - V. lucerne mosaic  
Hollings, M., 1957
  - V. narcissus stripe \*  
Hollings, M., 1957
  - V. orchid (cymbidium) mosaic  
Hollings, M., 1956
  - V. pea mosaic  
Hollings, M., 1957
  - V. pelargonium leaf curl  
Hollings, M., 1956
  - V. potato aucuba mosaic  
Hollings, M., 1957
  - V. potato paracrinkle  
Hollings, M., 1956
  - V. potato X  
Hollings, M., 1956
  - V. potato Y  
Hollings, M., 1956
  - V. privet mosaic \*  
Hollings, M., 1956
  - V. raspberry Scottish leaf curl  
Harrison, B.D., 1958  
Lister, R.M., 1958
  - V. raspberry yellow dwarf \*  
Harrison, B.D., 1958  
Lister, R.M., 1958
  - V. tobacco etch  
Hollings, M., 1956
  - V. tobacco mosaic  
Hollings, M., 1956
- C. amaranticolor, Coste & Reyn. (cont.)
- V. tobacco necrosis  
Hollings, M., 1957
  - V. tobacco ring spot  
Hollings, M., 1956, 1957
  - V. tomato aspermy  
Hollings, M., 1955, 1956
  - V. tomato black fleck \*  
Hollings, M., 1957
  - V. tomato black ring  
Harrison, B.D., 1958  
Hollings, M., 1956
  - V. tomato spotted wilt  
Hollings, M., 1956
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958  
Hollings, M., 1957  
Lister, R.M., 1958
- C. ambrosioides, L.
- V. beet curly top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. lucerne dwarf  
Freitag, J.H., 1951
  - V. tobacco mosaic  
Holmes, Francis O., 1938, 1946
- C. ambrosioides var. anthelminticum, (L.) A. Gray
- V. cowpea mosaic  
Anderson, C.W., 1955
- C. bonus-henricus, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. botrys, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. californicum, S. Wats.
- V. beet curly top  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- C. capitatum, (L.) Asch.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. ficifolium, Sm.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. foliosum, (Moench) Asch.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. giganteum, D. Don
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. glaucum, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. tobacco mosaic  
Holmes, Francis O., 1946
- C. hybridum, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. cucumber mosaic  
Roberts, Daniel A., 1952  
Roberts, Daniel A., R.E. Wilkinson and A. Frank Ross, 1951
  - V. eggplant mosaic  
Dale, W.T., 1954
  - V. tobacco ring spot  
Benedict, W.G., 1955
- C. leptophyllum, Nutt. ex S. Wats.
- V. beet curly top  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. murale, L.
- V. beet curly top  
Bennett, C.W. and Aziz Tanrisever, 1957  
Carsner, E., 1925

- C. murale*, L. (cont.)  
 V. beet curly top  
 Carsner, E. and C.F. Stahl, 1924  
 Giddings, N.J., 1944  
 Lackey, C.F., 1932, 1937  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Costa, A.S. and C.W. Bennett, 1955  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
*C. opulifolium*, Schrad.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. polyspermum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. quinoa*, Willd.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. rubrum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*C. spp.*  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco broad ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Travis, R.V. and Philip Brierley, 1957  
 V. tobacco streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*C. sueticum*, Murr. \*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. urbicum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. lettuce mosaic  
 Wilkinson, R.E. and Ursula Hirsch, 1952  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Ross, A. Frank, 1948  
*C. vulvaria*, L. - foetidum \*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. watsoni*, A. Nels.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 CHLORIS Sw. 1788 (Gramineae)  
*C. gayana*, Kunth.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
*C. virgata*, Swartz  
 V. maize streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 CHRYSANTHEMUM ((Tourn.) L. 1735 (Compositae)  
*C. carinatum*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*C. carinatum*, L. (cont.)  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. chrysanthemum Q  
 Hollings, M., 1957  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. tomato aspermy  
 Hollings, M., 1955  
*C. cinerariifolium* (Trev.) Vis.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*C. coccineum*, Willd.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
 V. tomato aspermy  
 Hollings, M., 1955  
*C. coronarium*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
*C. corymbosum*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*C. frutescens*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*C. hortorum*, Bailey  
 V. aster yellows  
 Smith, Floyd F. and Philip Brierley, 1948  
 V. chrysanthemum Q  
 Graham, D.C., 1957  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950  
 V. cucumber mosaic  
 Graham, D.C., 1957  
 V. tomato aspermy  
 Graham, D.C., 1957  
*C. indicum*, L.  
 V. chrysanthemum Q  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. chrysanthemum ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. chrysanthemum rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. chrysanthemum stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato aspermy  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Hollings, M., 1955  
*C. lacustre*, Brot.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*C. leucanthemum*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*C. leucanthemum* var. *maximum* \*  
 V. aster yellows  
 Kunkel, L.O., 1926  
*C. leucanthemum* var. *pinnatifidum*, Lecoq. & Lamotte  
 V. clover big vein  
 Black, L.M., 1945

- C. majus*, (Desf.) Asch.  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- C. maximum*, Ramond  
*V. aster* yellows  
 Kunkel, L. O., 1926  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- C. morifolium*, (Ramat.) Hemsl.  
*V. aster* yellows  
 Brierley, Philip and Floyd F. Smith, 1957  
 Smith, Floyd F. and Philip Brierley, 1953  
*V. chrysanthemum* latent \*  
 Hollings, M., 1957  
*V. chrysanthemum* Q  
 Brierley, Philip, 1955  
 Brierley, Philip and Floyd F. Smith, 1953  
 Hollings, M., 1957  
 Holmes, Francis O., 1956  
 Keller, John R., 1951, 1953  
*V. chrysanthemum* ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953  
 Brierley, Philip and Floyd F. Smith, 1949, 1955  
 Keller, John R., 1951, 1953  
 Welsh, Maurice F., 1948  
*V. chrysanthemum* vein mottle \*  
 Hollings, M., 1957  
*V. cucumber* mosaic  
 Hollings, M., 1955  
 Whipple, O. C. and J. C. Walker, 1941  
*V. tomato* aspermy  
 Blencowe, J. W. and John Caldwell, 1949  
 Brierley, Philip, 1955  
 Brierley, Philip and Floyd F. Smith, 1953, 1957  
 Brierley, Philip, Floyd F. Smith and S. P.  
 Doolittle, 1953, 1955  
 Hollings, M., 1955  
 Holmes, Francis O., 1956  
 Ocfemia, G. O., 1956  
*V. tomato* spotted wilt  
 Gardner, M. W. and O. C. Whipple, 1934
- C. myconis*, L.  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- C. nivellei*, Braun-Blanq. & Maire  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- C. parthenium*, (L.) Bernh.  
*V. beet* curly top  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- C. parthenium* f. *flosculosum*, (DC.) Beck \*  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953  
*V. tomato* aspermy  
 Brierley, Philip, Floyd F. Smith and S. P.  
 Doolittle, 1955
- C. praealtum*, Vent.  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1950, 1953
- C. segetum*, L.  
*V. aster* yellows  
 Severin, Henry H. P. and Julius H. Freitag, 1934,  
 1945  
*V. cucumber* mosaic  
 Govier, D. A., 1957
- C. segetum* x *C. carinatum*, L.  
*V. aster* yellows  
 Severin, Henry H. P. and Julius H. Freitag, 1945
- C. spp.*  
*V. aster* yellows  
 Kunkel, L. O., 1926  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953  
*V. cucumber* mosaic  
 Govier, D. A., 1957  
 Price, W. C., 1940  
*V. lucerne* mosaic  
 Price, W. C., 1940  
*V. tobacco* ring spot  
 Price, W. C., 1940
- C. spp.* (cont.)  
*V. tomato* spotted wilt  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- C. viscosum*, Desf.  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- CICER ((Tourn.)) L. 1735 (Leguminosae)  
*C. arietinum*, L.  
*V. bean* yellow mosaic  
 Snyder, William C., A. O. Paulus and A. Herbert  
 Gold, 1956  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*V. beet* curly top  
 Severin, Henry H. P. and Charles F. Henderson,  
 1928  
*V. lucerne* mosaic  
 Zaumeyer, W. J., 1938  
*V. pea* enation mosaic  
 Hagedorn, D. J., 1957  
*V. pea* mosaic  
 Murphy, D. M. and W. H. Pierce, 1937  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*V. pea* streak  
 Zaumeyer, W. J., 1938  
*V. red clover* mosaic \*  
 Zaumeyer, W. J. and B. L. Wade, 1935
- CICHORIUM ((Tourn.)) L. 1735 (Compositae)  
*C. endivia*, L.  
*V. aster* yellows  
 Linn, M. B., 1940  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*V. cabbage* black ring spot  
 Hamlyn, Brenda M. G., 1953  
*V. cucumber* mosaic  
 Price, W. C., 1940  
*V. lucerne* mosaic  
 Price, W. C., 1940  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946  
*V. tobacco* necrosis  
 Price, W. C., 1940  
*V. tobacco* ring spot  
 Price, W. C., 1940  
*V. tobacco* streak  
 Fulton, Robert W., 1948  
*V. tomato* spotted wilt  
 Sakimura, K., 1940
- C. intybus*, L.  
*V. aster* yellows  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*V. lettuce* mosaic  
 Grogan, R. G., J. E. Welch and Roy Bardin, 1952  
*V. tomato* spotted wilt  
 Sakimura, K., 1940
- CINERARIA L. p. p. 1763 (Compositae)  
*C. cruenta*, Mass.  
*V. cineraria* mosaic  
 Jones, Leon K., 1944  
*V. tomato* spotted wilt  
 Jones, Leon K., 1944
- CIRSIUM ((Tourn.)) Adans. 1763 (Compositae)  
*C. arvense*, (L.) Scop.  
*V. raspberry* Scottish leaf curl  
 Harrison, B. D., 1958  
*V. tobacco* mosaic  
 Boyle, John S. and David C. Wharton, 1956
- CITROPSIS Swingle & Kellerman 1913 (Rutaceae)  
*C. articulata*, Swingle & Kellerman  
*V. citrus* tristeza  
 Hughes, W. A. and C. A. Lister, 1953
- CITRULLUS Forsk. 1775 (Cucurbitaceae)  
*C. citrullus*, Small  
*V. cucumber* mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- C. colocynthis*, Schrad.  
*V. prunus* A \*  
 Fulton, Robert W., 1957

- C. colocynthis*, Schrad. (cont.)  
*V. prunus* B \*  
 Fulton, Robert W., 1957
- C. vulgaris*, Schrad.  
*V. beet curly top*  
 Lackey, C. F., 1929  
 Severin, Henry H. P. and Charles F. Henderson, 1928
- V. cucumber green mottle mosaic*  
 Ainsworth, G. C., 1935
- V. cucumber mosaic*  
 Anderson, C. W., 1951  
 Aycock, Robert, 1951  
 Bhargava, K. S., 1951  
 Jagger, I. C., 1918  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Porter, R. H., 1930  
 Pound, Glenn S. and J. C. Walker, 1948  
 Vasudeva, R. Sahai and T. B. Lal, 1943  
 Wellman, F. L., 1934, 1935  
 Whipple, O. C. and J. C. Walker, 1941
- V. cucurbit mosaic* \*  
 Doolittle, S. P. and M. N. Walker, 1925
- V. muskmelon mosaic*  
 Anderson, C. W., 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. prunus* A \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957
- V. prunus* B \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957
- V. prunus* E \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957
- V. rose mosaic*  
 Fulton, Robert W., 1952
- V. squash mosaic*  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. squash mosaic (southern)*  
 Anderson, C. W., 1951
- V. tobacco mosaic*  
 McKinney, H. H. and Robert W. Fulton, 1949
- V. tobacco necrosis*  
 Fulton, Robert W., 1950
- V. tobacco ring spot*  
 Anderson, C. W., 1954  
 Bridgman, G. H. and J. C. Walker, 1952  
 Grogan, R. G. and W. C. Schnathorst, 1955  
 McKeen, C. D., 1957  
 Pound, Glenn S., 1949  
 Rosberg, David W., 1953  
 Sheperd, Robert J. and F. Ben Struble, 1956  
 Steere, Russell L., 1956  
 Wingard, S. A., 1928
- V. tobacco streak*  
 Fulton, Robert W., 1948
- V. watermelon mosaic*  
 Anderson, C. W., 1952, 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Pound, Glenn S., 1949  
 Walker, M. N., 1933
- V. western watermelon mosaic*  
 Freitag, J. H., 1952
- C. vulgaris* var. *citroides*  
*V. beet curly top*  
 Severin, Henry H. P. and Charles F. Henderson, 1928
- V. muskmelon mosaic*  
 Anderson, C. W., 1954
- V. prunus* A \*  
 Fulton, Robert W., 1957
- V. prunus* B \*  
 Fulton, Robert W., 1957
- V. squash mosaic*  
 Freitag, J. H., 1956
- V. tobacco ring spot*  
 Anderson, C. W., 1954
- V. watermelon mosaic*  
 Anderson, C. W., 1954
- CITRUS L. 1735 (Rutaceae)  
*C. aurantifolia*, (Christm.) Swingle  
*V. citrus psorosis*  
 Wallace, J. M., 1951
- C. aurantifolia*, (Christm.) Swingle (cont.)  
*V. citrus psorosis*  
 Weathers, L. G., E. C. Calavan and J. M. Wallace, 1956
- V. citrus tristeza*  
 Dickson, R. C., Metta McD. Johnson, R. A. Flock and Edward F. Laird, Jr., 1956  
 Grant, Theodore J. and Henry Schneider, 1953  
 Hughes, W. A. and C. A. Lister, 1953  
 Knorr, L. C., 1956  
 Olson, Edward O., 1956  
 Wallace, J. M., 1951, 1957  
 Wallace, J. M., P. C. J. Oberholzer and J. D. J. Hofmeyer, 1956  
 Wallace, J. M., I. Reichert, A. Bental and E. Winocour, 1956
- V. citrus vein-yellowing disease* \*  
 Weathers, L. G., 1957
- V. citrus xyloporosis*  
 Childs, J. F. L., 1956
- C. aurantifolia* x *Fortunella margarita*, (Lour.) Swingle  
*V. citrus vein-yellowing disease* \*  
 Weathers, L. G., 1957
- C. aurantium*, L.  
*V. citrus tristeza*  
 Costa, A. S. and T. J. Grant, 1951  
 Grant, T. J. and A. S. Costa, 1951  
 Hughes, W. A. and C. A. Lister, 1953  
 Olson, Edward O., 1956
- C. combara*, Raf.  
*V. citrus tristeza*  
 Knorr, L. C., 1956
- C. grandis*, (L.) Osbeck  
*V. citrus tristeza*  
 Carpenter, J. B., 1957  
 Wallace, James M., 1957
- C. grandis* on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C. W. and A. S. Costa, 1949
- C. hystrix*, DC.  
*V. citrus tristeza*  
 Knorr, L. C., 1956
- C. limon*, (L.) Burm. f.  
*V. citrus growth-retarding* \*  
 Calavan, E. C., J. M. Wallace and L. G. Weathers, 1954
- V. citrus psorosis*  
 Fawcett, H. S. and A. A. Bitancourt, 1943  
 Weathers, L. G., E. C. Calavan and J. M. Wallace, 1956
- V. citrus tristeza*  
 Bennett, C. W. and A. S. Costa, 1949  
 Carpenter, J. B., 1956, 1957  
 Grant, T. J. and Richard P. Higgins, 1957  
 Hughes, W. A. and C. A. Lister, 1953  
 Olson, Edward O. and James R. McDonald, 1954  
 Schneider, Henry, 1957  
 Wallace, James M., 1957  
 Wallace, J. M., P. C. J. Oberholzer and J. D. J. Hofmeyer, 1956  
 Wallace, J. M., I. Reichert, A. Bental and E. Winocour, 1956
- V. citrus vein-yellowing disease* \*  
 Weathers, L. G., 1957
- V. lemon wood pocket* \*  
 Fawcett, H. S. and E. C. Calavan, 1947
- C. limon* on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C. W. and A. S. Costa, 1949
- C. limon* x *C. sinensis*, (L.) Osbeck  
*V. citrus tristeza*  
 Olson, Edward O., 1956
- C. limon* on *Poncirus trifoliata*, (L.) Raf.  
*V. citrus tristeza*  
 Olson, Edward O. and James R. McDonald, 1954
- C. maxima*, Merr.  
*V. citrus psorosis*  
 Weathers, L. G., E. C. Calavan and J. M. Wallace, 1956
- C. medica*, L.  
*V. citrus tristeza*  
 Hughes, W. A. and C. A. Lister, 1953
- V. cucumber mosaic*  
 Porter, R. H., 1930



- C. mitis*, Blanco  
*V. citrus vein-yellowing disease* \*  
 Weathers, L.G., 1957
- C. nobilis*, Lour., var. *unshiu*, Swingle  
*V. citrus tristeza*  
 Hughes, W.A. and C.A. Lister, 1953  
 Olson, Edward O. and James R. McDonald, 1954  
 Wallace, James M., 1957
- C. nobilis* var. *unshiu* on *C. paradisi*, Macf. x  
*Poncirus trifoliata*, (L.) Raf.  
*V. citrus tristeza*  
 Olson, Edward O. and James R. McDonald, 1954
- C. nobilis* var. *unshiu* on *C. sinensis*, (L.) Osbeck x  
*Poncirus trifoliata*, (L.) Raf.  
*V. citrus tristeza*  
 Olson, Edward O. and James R. McDonald, 1954
- C. paradisi*, Macf.  
*V. citrus psorosis*  
 Fawcett, H.S., 1938  
 Weathers, L.G., E.C. Calavan and J.M. Wallace, 1956
- V. citrus tristeza*  
 Carpenter, J.B., 1957  
 Hughes, W.A. and C.A. Lister, 1953  
 Knorr, L.C., 1956  
 Olson, Edward O., 1956  
 Wallace, James M., 1957  
 Wallace, James M., P.C.J. Oberholzer and J.D.J. Hofmeyer, 1956
- C. paradisi* on *C. aurantifolia*, (Christm.) Swingle  
*V. citrus exocortis*  
 Olson, E.O. and A.V. Shull, 1956
- V. citrus xyloporosis*  
 Olson, E.O. and A.V. Shull, 1956
- C. paradisi* on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949
- C. paradisi* on (*C. paradisi* x *C. reticulata*, Blanco)  
*V. citrus xyloporosis*  
 Olson, E.O. and A.V. Shull, 1956
- C. paradisi* x *C. reticulata*, Blanco  
*V. citrus tristeza*  
 Costa, A.S. and T.J. Grant, 1951  
 Hughes, W.A. and C.A. Lister, 1953
- V. citrus vein-yellowing disease* \*  
 Weathers, L.G., 1957
- V. citrus xyloporosis*  
 Childs, J.F.L., 1956
- C. paradisi* x *C. reticulata*, Blanco on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949
- C. paradisi* on (*C. sinensis*, (L.) Osbeck x *Poncirus trifoliata*, (L.) Raf.)  
*V. citrus exocortis*  
 Olson, E.O. and A.V. Shull, 1956
- C. reticulata*, Blanco  
*V. citrus psorosis*  
 Fawcett, H.S., 1938
- V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949  
 Carpenter, J.B., 1957  
 Hughes, W.A. and C.A. Lister, 1953  
 Olson, Edward O., 1956  
 Wallace, James M., 1957
- C. reticulata* on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949
- C. sinensis*, (L.) Osbeck  
*V. citrus psorosis*  
 Fawcett, H.S., 1933, 1934, 1938  
 Fawcett, H.S. and A.A. Bitancourt, 1943  
 Fawcett, H.S. and L.C. Cochra, 1941, 1942  
 Rhoads, Authur S., 1942  
 Wallace, James M., 1945
- V. citrus stubborn disease*  
 Fawcett, H.S., 1946
- V. citrus tristeza*  
 Carpenter, J.B., 1957  
 Costa, A.S. and T.J. Grant, 1951  
 Dickson, R.C., Metta McD. Johnson, R.A. Flock, and Edward F. Laird, Jr., 1956
- C. sinensis*, (L.) Osbeck (cont.)  
*V. citrus tristeza*  
 Grant, T.J. and A.S. Costa, 1951  
 Grant, T.J. and Henry Schneider, 1953  
 Hughes, W.A. and C.A. Lister, 1953  
 Knorr, L.C., 1956  
 Schneider, Henry, J.M. Wallace and J.E. Dimitman, 1950  
 Wallace, J.M., 1949, 1957
- V. citrus xyloporosis*  
 Childs, J.F.L., 1956
- C. sinensis* on *C. aurantifolia*, (Christm.) Swingle  
*V. citrus exocortis*  
 Olson, E.O. and A.V. Shull, 1956
- V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949
- C. sinensis* on *C. aurantium*, L.  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949  
 Schneider, Henry, 1954
- C. sinensis* on *C. paradisi*, Macf.  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949
- C. sinensis* x *C. reticulata*, Blanco  
*V. citrus xyloporosis*  
 Childs, J.F.L., 1956
- C. spp.*  
*V. citrus convex gum* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. citrus psorosis*  
 Bennett, C.W., 1944
- V. citrus vein enation*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CLARKIA Pursh 1814 (Onagraceae)  
*C. elegans*, Dougl.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- V. cucumber mosaic*  
 Price, W.C., 1940
- V. tobacco necrosis*  
 Price, W.C., 1940
- V. tobacco ring spot*  
 Price, W.C., 1940
- V. tobacco ring spot no. 2*  
 Price, W.C., 1940
- CLAUSENA Burm. f. 1768 (Rutaceae)  
*C. anisata*, (Willd.) Hook. f.  
*V. citrus tristeza*  
 Hughes, W.A. and C.A. Lister, 1953
- CLAYTONIA Gronov. ex L. 1737 (Portulacaceae)  
*C. perfoliata*, Donn.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961
- CLEOME L. 1735 (Capparidaceae)  
*C. spinosa*, L.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Faan, Hwei Chung and James Johnson, 1951  
 Price, W.C., 1940
- V. lucerne mosaic*  
 Price, W.C., 1940
- V. tobacco mosaic*  
 Holmes, Francis O., 1946
- V. tobacco necrosis*  
 Price, W.C., 1940
- V. tobacco ring spot*  
 Price, W.C., 1940
- V. tobacco ring spot no. 2*  
 Price, W.C., 1940
- V. turnip crinkle*  
 Broadbent, L. and G.D. Heathcote, 1958
- COBAEA Cav. 1791 (Polemoniaceae)  
*C. scandens*, Cav.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936

- COCHLEARIA Tourn. ex L. 1735 (Cruciferae)  
*C. armoracia*, L.  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- COCOS L. 1753 (Palmaceae)  
*C. nucifera*, L.  
 V. (coconut) cadang-cadang disease \*  
 Celino, M.S., 1947
- COFFEA L. 1735 (Rubiaceae)  
*C. arabica*, L.  
 V. coffee hot and cold disease \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. coffee ring spot \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- COIX L. 1737 (Gramineae)  
*C. lachryma-jobi*, L.  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- COLA Schott & Endl. 1832 (Sterculiaceae)  
*C. chlamydantha*, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. cordifolia*, R. Br.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950  
*C. gigantea*, A. Chev., var. *glabrescens*, Brenan &  
 V. cacao swollen shoot Key \*  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. lateritia*, K. Schum., var. *maclaudi* (A. Chev.)  
 V. cacao swollen shoot Brenan & Key \*  
 Tinsley, T.W. and A.L. Wharton, 1958
- COLCHICUM L. 1735 (Liliaceae)  
*C. autumnale*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944
- COLEUS Lour. 1790 (Labiatae)  
*C. blumei*, Benth.  
 V. coleus mosaic  
 Creager, D.B., 1945  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H.  
 Steranka, 1950  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
*C. lanuginosus*, Hochst. ex Benth.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- COLLINSIA Nutt. 1817 (Scrophulariaceae)  
*C. bicolor*, Benth.  
 V. clover big vein  
 Black, L.M., 1945  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- COLOCYNTHIS ((Tourn.)) L. 1735 (Cucurbitaceae)  
*C. vulgaris*, Schrad.  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S., S.P. Raychaudhuri and  
 Jagannath Singh, 1949
- COMMELINA Plum. ex L. 1735 (Commelinaceae)  
*C. communis*, L.  
 V. celery mosaic  
 Price, W.C., 1935  
 V. cucumber mosaic  
 Price, W.C., 1935  
 Wellman, F.L., 1935  
*C. diffusa*, Burm. f.  
 V. cucumber mosaic  
 Dale, W.T., 1954  
*C. elegans*, H. B. & K.  
 V. cucumber mosaic  
 Anderson, C.W., 1952  
 Dale, W.T., 1954  
*C. erecta*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. gigas*, Small  
 V. cucumber mosaic  
 Anderson, C.W., 1951, 1952  
*C. nudiflora*, L.  
 V. celery mosaic  
 Doolittle, S.P., 1931  
 Doolittle, S.P. and F.L. Wellman, 1934  
 V. cucumber mosaic  
 Anderson, C.W., 1952  
 Price, W.C., 1941  
 Wellman, F.L., 1934, 1935  
*C. spp.*  
 V. cucumber mosaic  
 Simons, John N., 1957
- CONIUM L. 1735 (Umbelliferae)  
*C. maculatum*, L.  
 V. celery yellow spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- CONRINGIA Heist. ex L. 1735 (Cruciferae)  
*C. orientalis*, (L.) Dimort.  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- CONVOLVULUS ((Tourn.)) L. 1735 (Convolvulaceae)  
*C. arvensis*, L.  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato spotted wilt  
 Sherf, A.F., 1948  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*C. occidentalis*, A. Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. spp.*  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco streak  
 Fulton, Robert W., 1948  
*C. tricolor*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940

- C. tricolor*, L. (cont.)  
*V. tomato aspermy*  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- COPROSMA** Forst. 1776 (Rubiaceae)  
*C. baueri*, Endl.  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951
- CORCHORUS** ((Tourn.)) L. 1735 (Tiliaceae)  
*C. aestuans*, L.  
*V. cacao swollen shoot*  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. olitorius*, L.  
*V. cacao swollen shoot*  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. tridens*, L.  
*V. cacao swollen shoot*  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. trilocularis*, L.  
*V. cacao swollen shoot*  
 Tinsley, T.W. and A.L. Wharton, 1958
- COREOPSIS** L. 1737 (Compositae)  
*C. douglasii*, Hall  
*V. dahlia mosaic*  
 Brierley, Philip and Floyd F. Smith, 1950  
*C. drummondii*, Torr. & Gray  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*C. grandiflora*, Nutt.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*C. tinctoria*, Nutt.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934
- CORIANDRUM** ((Tourn.)) L. 1735 (Umbelliferae)  
*C. sativum*, L.  
*V. beet curly top*  
 Severin, Henry H.P., 1929  
*V. celery mosaic*  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1938  
*V. poison hemlock ring spot*  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
*V. squash mosaic*  
 Freitag, Julius H., 1956
- COSMIDIUM** Nutt. 1841 (Compositae)  
*C. burridgeanum*, X, Hort. ex Regel  
*V. aster yellows*  
 Kunkel, L.O., 1926
- COSMOS** Cav. 1791 (Compositae)  
*C. bipinnatus*, Cav.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*C. hybridus*, Hort. ex Gard. & For. i  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- COTONEASTER** Rupp. 1745 (Rosaceae)  
*C. rotundifolia*, Wall., var. *lanata*, Schneid.  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951  
*C. spp.*  
*V. apple mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- COTULA** ((Tourn.)) L. 1735 (Compositae)  
*C. australis*, Hook.  
*V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- CRAMBE** Tourn. ex L. 1735 (Cruciferae)  
*C. maritima*, L.  
*V. cauliflower mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CRASSINA** Scepini 1758 (Compositae)  
*C. elegans*, Kuntze  
*V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950
- CROTALARIA** Dill. ex L. 1737 (Leguminosae)  
*C. capensis*, Jacq.  
*V. prunus B \**  
 Fulton, Robert W., 1957  
*C. fwamboensis*, E.G. Baker  
*V. groundnut rosette*  
 Evans, A.C., 1954  
*C. goreensis*, Guill. & Perr.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*V. lucerne witches' broom*  
 Helms, Katie, 1957  
*V. tomato big bud*  
 Helms, Katie, 1957  
*C. grahamiana*, Wight & Arn.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*C. incana*, L.  
*V. crotalaria mosaic*  
 Jensen, D.D., 1949, 1950  
 Johnson, H.W. and C.L. Lefebvre, 1938  
*C. intermedia*, Kotschy  
*V. crotalaria mosaic*  
 Johnson, H.W. and C.L. Lefebvre, 1938  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. groundnut rosette*  
 Evans, A.C., 1954  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*V. lucerne dwarf*  
 Price, W.C., 1940  
*V. prunus A \**  
 Fulton, Robert W., 1957  
*V. prunus E \**  
 Fulton, Robert W., 1957  
*V. prunus G \**  
 Fulton, Robert W., 1957  
*V. rose mosaic*  
 Fulton, Robert W., 1952  
*V. tobacco necrosis*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 LeBeau, F.J., 1947  
*V. tobacco streak*  
 Fulton, Robert W., 1948  
*C. juncea*, L.  
*V. cowpea mosaic*  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949  
*V. crotalaria mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*V. strawberry green petal*  
 Rose, B.D. and S.D. Misra, 1938  
*V. tobacco leaf curl*  
 Pruthi, Hem Singh and C.K. Samuel, 1937, 1939  
*C. kirkii*, Baker  
*V. groundnut rosette*  
 Evans, A.C., 1954  
*C. lanceolata*, E. Mey.  
*V. crotalaria mosaic*  
 Johnson, H.W. and C.L. Lefebvre, 1938  
*C. maxillaris*, Klotzsch  
*V. crotalaria mosaic*  
 Johnson, H.W. and C.L. Lefebvre, 1938

- C. mucronata*, Desv.  
 V. cowpea mosaic  
 Anderson, C. W., 1955  
 V. *crotalaria* mosaic  
 Jensen, D. D., 1949  
 V. cucumber mosaic  
 Anderson, C. W., 1955  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957
- C. orixensis*, Willd.  
 V. (legume) little leaf disease \*  
 Hutton, E. M. and N. E. Grylls, 1956
- C. pumila*, Ortega  
 V. (legume) little leaf disease \*  
 Hutton, E. M. and N. E. Grylls, 1956
- C. retusa*, L.  
 V. bean yellow mosaic  
 Zaumeyer, W. J., 1940  
 V. *crotalaria* mosaic  
 Johnson, H. W. and C. L. Lefebvre, 1938  
 V. (legume) little leaf disease \*  
 Hutton, E. M. and N. E. Grylls, 1956
- C. sericea*, Retz.  
 V. (legume) little leaf disease \*  
 Hutton, E. M. and N. E. Grylls, 1956
- C. spectabilis*, Roth  
 V. alsike clover mosaic  
 Zaumeyer, W. J., 1940  
 V. bean yellow mosaic  
 Corbett, M. K., 1957  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
 Zaumeyer, W. J., 1940  
 V. cowpea mosaic  
 Anderson, C. W., 1955  
 V. *crotalaria* mosaic  
 Johnson, H. W. and C. L. Lefebvre, 1938  
 V. lucerne mosaic  
 Thomas, H. Rex, 1951  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. tobacco ring spot  
 Corbett, M. K., 1957  
 LeBeau, F. J., 1947  
 V. tobacco streak  
 Thomas, H. Rex and W. J. Zaumeyer, 1950
- C. spp.*  
 V. *datura* rugose leaf curl  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. kaimi clover disease \*  
 Murakishi, Harry H., 1952
- C. striata*, DC.  
 V. alsike clover mosaic  
 Zaumeyer, W. J., 1940  
 V. bean yellow mosaic  
 Zaumeyer, W. J., 1940  
 V. *crotalaria* mosaic  
 Cook, Melville T., 1931  
 Johnson, H. W. and C. L. Lefebvre, 1938
- C. usaramoensis*, E. G. Baker  
 V. *crotalaria* mosaic  
 Johnson, H. W. and C. L. Lefebvre, 1938  
 V. tobacco leaf curl  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- CRYPTOSTEMMA R. Br. 1813 (Compositae)  
*C. calendulaceum*, (L.) R. Br.  
 V. tobacco yellow dwarf  
 Helson, G. A. H., 1950  
 Hill, A. V., 1950  
 V. *vaccinium* false blossom  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- CUCUMIS ((Tourn.)) L. 1735 (Cucurbitaceae)  
*C. anguria*, L.  
 V. beet curly top  
 Severin, Henry H. P. and Charles F. Henderson, 1928  
 V. cucumber green mottle mosaic  
 Ainsworth, G. C., 1935  
 V. cucumber mosaic  
 Jagger, I. C., 1918
- C. anguria*, L. (cont.)  
 V. cucumber mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 Wellman, F. L., 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H. P. and Julius H. Freitag, 1948  
 V. cucurbit mosaic \*  
 Doolittle, S. P. and M. N. Walker, 1925  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 V. *prunus* A \*  
 Fulton, Robert W., 1957  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, Julius H., 1956
- C. dipsaceus*, Ehr.  
 V. *prunus* A \*  
 Fulton, Robert W., 1957  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957
- C. ficifolius*, Bouche  
 V. cucurbit mosaic \*  
 Doolittle, S. P. and M. N. Walker, 1925
- C. grossulariaeformis*, Hort. \*  
 V. cucurbit mosaic \*  
 Doolittle, S. P. and M. N. Walker, 1925
- C. maderaspatanus*, Roxbg.  
 V. cucumber green mottle mosaic  
 Ainsworth, G. C., 1935
- C. mélo*, L.  
 V. aster yellows  
 Freitag, Julius H., 1956  
 V. beet curly top  
 Giddings, N. J., 1948  
 V. cucumber green mottle mosaic  
 Ainsworth, G. C., 1935  
 Azad, R. N., 1956  
 V. cucumber mosaic  
 Adsuar, Jose, 1955  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Doolittle, S. P., 1916  
 Jagger, I. C., 1918  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Pound, Glenn S. and J. C. Walker, 1948  
 Vasudeva, R. Sahai and T. B. Lal, 1943  
 Wellman, F. L., 1934, 1935
- V. cucurbit mosaic \*  
 Doolittle, S. P. and M. N. Walker, 1925  
 Kendrick, J. B., 1934  
 V. dodder latent mosaic  
 Bennett, C. W., 1949  
 V. muskmelon mosaic  
 Anderson, C. W., 1954  
 Freitag, Julius H., 1952  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 V. muskmelon vein necrosis  
 Freitag, Julius H., 1952  
 V. *prunus* A \*  
 Fulton, Robert W., 1957  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, Julius H., 1956  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 V. tobacco mosaic  
 McKinney, H. H. and Robert W. Fulton, 1949

- C. melo, L. (cont.)  
 V. tobacco necrosis  
 Fulton, Robert W., 1950  
 V. tobacco ring spot  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Henderson, R.G. and S.A. Wingard, 1931  
 Pound, Glenn S., 1949  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. watermelon mosaic  
 Anderson, C.W., 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Pound, Glenn S., 1949  
 C. melo var. cantalupensis, Naud.  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 C. melo var. chito, Naud.  
 V. cucumber mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. muskmelon mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 C. melo var. conomon, (Thunb.) Makino \*  
 V. cucumber mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 Whitaker, Thomas W. and G.W. Bohn, 1954  
 V. muskmelon mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 C. melo var. dudaim, Naud.  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 C. melo var. flexuosus, Naud.  
 V. cucumber mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. muskmelon mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 C. melo var. inodorus, Naud.  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. cucumber mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 Whipple, O.C. and J.C. Walker, 1941  
 V. cucumber western mosaic \*  
 Severin, Henry H.P. and Julius H. Freitag, 1948  
 V. muskmelon mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 C. melo var. reticulatus, Naud.  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. cucumber mosaic  
 Anderson, C.W., 1952  
 Aycock, Robert, 1951  
 Freitag, Julius H., 1952  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 Whipple, O.C. and J.C. Walker, 1941  
 V. muskmelon mosaic  
 Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. tobacco necrosis  
 Fulton, J.P., 1952  
 V. tobacco ring spot  
 McKeen, C.D., 1957  
 V. watermelon mosaic  
 Anderson, C.W., 1952  
 C. melo var. rockyford \*  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 C. melo var. utilisissimus \*  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber green mottle mosaic  
 Azad, R.N., 1956  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 C. metuliferus, E. Mey. ex Schrad.  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 C. odoratissimus, Moench  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 C. prophetarum, L.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 C. sativus, L.  
 V. apple mosaic  
 Yarwood, C.E., 1955  
 Yarwood, C.E. and H.E. Thomas, 1954  
 V. arabis mosaic  
 Smith, K.M. and Roy Markham, 1944  
 V. aster yellows  
 Freitag, Julius H., 1956  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. brome mosaic  
 McKinney, H.H., 1944, 1953  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 V. celery mosaic  
 Doolittle, S.P., 1931  
 Doolittle, S.P. and F.L. Wellman, 1934  
 V. (sour) cherry yellows  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Willison, R.S., 1951  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935  
 Fulton, Robert W., 1950  
 Johnson, Folke, 1941  
 Vasudeva, R.S. and T.K. Nariani, 1952  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Ainsworth, G.C., 1938, 1940  
 Anderson, C.W., 1951, 1952, 1955  
 Aycock, Robert, 1951  
 Berkeley, G.H., 1951, 1953  
 Bhargava, K.S., 1951  
 Brierley, Philip, 1939  
 Burnett, G., 1934  
 Cook, M.T., 1937  
 Dale, W.T., 1954  
 Diachun, Stephen, 1952  
 Doolittle, S.P., 1916  
 Doolittle, S.P. and M.N. Walker, 1928  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Elmer, O.H., 1927  
 Freitag, Julius H., 1952  
 Fulton, Joseph P., 1950  
 Fulton, Robert W., 1941  
 Govier, D.A., 1957  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Harrison, B.D., 1958  
 Harter, L.L., 1936, 1938  
 Hoggan, Isme A., 1933, 1935

- C. sativus, L. (cont.)
- V. cucumber mosaic
    - Hollings, M., 1955
    - Jagger, I.C., 1916, 1918
    - Johnson, E.M., 1930
    - Larsh, Howard W. and J.R. Shay, 1945
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - Magee, C.J.P., 1940
    - Milbrath, J.A. and Roy A. Young, 1956
    - Nariani, T.K. and Nirmaljit Singh, 1952
    - Nienow, Inez, 1948
    - Porter, Clark A., 1954
    - Porter, R.H., 1928, 1929, 1930
    - Pound, Glenn S. and J.C. Walker, 1948
    - Price, W.C., 1934, 1937, 1941
    - Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
    - Shifriss, Oved, C.H. Myers and Charles Chupp, 1942
    - Silberschmidt, K., 1955
    - Sill, Webster H., Jr., 1951
    - Sill, Webster H., Jr. and J.C. Walker, 1952
    - Simons, John N., 1955, 1957
    - Sinclair, J.B. and J.C. Walker, 1956
    - Smith, Floyd F. and Philip Brierley, 1944
    - Storey, I.F., 1939
    - Valleau, W.D., 1932
    - Varney, E.H. and J. Duain Moore, 1951
    - Vasudeva, R. Sahai and T.B. Lal, 1943
    - Walker, M.N., 1926
    - Wellman, F.L., 1934, 1935
    - Whipple, O.C. and J.C. Walker, 1938, 1941
  - V. (cucumber) O.S.C. isolate 606 \*
  - Porter, Clark A. and Frank P. McWhorter, 1951
  - V. cucumber western mosaic \*
  - Severin, Henry H.P. and Julius H. Freitag, 1948
  - V. cucurbit mosaic \*
  - Doolittle, S.P. and M.N. Walker, 1925
  - V. delphinium ring spot
  - Severin, Henry H.P. and R.C. Dickson, 1942
  - V. eggplant mosaic
  - Dale, W.T., 1954
  - V. elm mosaic
  - Varney, E.H. and J. Duain Moore, 1952
  - V. hydrangea ring spot
  - Brierley, Philip and Paul Lorentz, 1957
  - Brierley, Philip and Floyd F. Smith, 1952
  - V. lovage mosaic
  - Smith, K.M. and Roy Markham, 1944
  - V. lucerne mosaic
  - Berkeley, G.H., 1947
  - Black, L.M. and W.C. Price, 1940
  - Johnson, E.M., 1946
  - Oswald, John W., 1950
  - Richardson, D.E. and T.W. Tinsley, 1956
  - Severin, Henry H.P., 1942
  - Thomas, H. Rex, 1951, 1953
  - Zaumeyer, W.J., 1938
  - V. lupine disease \*
  - Weimer, J.L., 1950
  - V. muskmelon mosaic
  - Anderson, C.W., 1954
  - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Rader, Wm.E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. pea die back \*
  - Zaumeyer, W.J., 1939
  - V. pea mottle
  - Johnson, Folke, 1942
  - V. pea stem streak \*
  - Zaumeyer, W.J., 1939
  - V. peach ring spot
  - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1949
  - Fulton, Robert W., 1956
  - Gilmer, R.M., 1955
  - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
  - Hobbs, Gordon A., 1951
  - Milbrath, J.A., 1953
  - Tomlinson, N., 1955
  - Willison, R.S., 1951
  - V. peach yellow bud mosaic
  - Yarwood, C.E., 1956
  - V. (physalis) mosaic \*
  - Walker, M.N., 1925, 1926
- C. sativus, L. (cont.)
- V. physalis subglabrata mosaic \*
  - Walker, M.N., 1925
  - V. potato X
  - Matthews, R.E.F., 1949
  - V. prune diamond canker
  - Yarwood, C.E. and H. Rex Thomas, 1954
  - V. prune dwarf
  - Willison, R.S., 1951
  - V. prunus A \*
  - Fulton, Robert W., 1957
  - V. prunus B \*
  - Fulton, Robert W., 1957
  - V. prunus E \*
  - Fulton, Robert W., 1957
  - V. prunus G \*
  - Fulton, Robert W., 1957
  - V. ranunculus mosaic
  - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. raspberry Scottish leaf curl
  - Harrison, B.D., 1958
  - Lister, R.M., 1958
  - V. raspberry yellow dwarf \*
  - Harrison, B.D., 1958
  - V. red currant ring spot
  - Klessner, P.J., 1951
  - V. rhubarb ring spot \*
  - Vaughan, Edward K. and John W. Yale, Jr., 1953
  - Yale, John W., Jr. and Edward K. Vaughan, 1954
  - V. rose mosaic
  - Fulton, Robert W., 1952
  - V. squash mosaic
  - Freitag, Julius H., 1956
  - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. squash mosaic (southern)
  - Anderson, C.W., 1951
  - V. stone fruit \*
  - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - Lindner, R.C., Hugh C. Kirkpatrick and T.E. Weeks, 1955
  - V. stone fruit necrotic ring spot \*
  - Gilmer, R.M., 1956
  - V. stone fruit ring spot \*
  - Heinis, Julius L., 1956
  - Heinis, Julius L. and J.A. Milbrath, 1954
  - V. tobacco broad ring spot
  - Johnson, James and Robert W. Fulton, 1940, 1942
  - V. tobacco broken ring spot
  - Smith, K.M. and Roy Markham, 1944
  - V. tobacco mosaic
  - Berkeley, G.H., 1951
  - Cox, C.E. and L.O. Weaver, 1950
  - Fulton, Robert W., 1950
  - McKinney, H.H., 1952
  - McKinney, H.H. and Robert W. Fulton, 1949
  - Walker, M.N., 1924, 1926
  - V. tobacco necrosis
  - Fulton, Joseph P., 1952
  - Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
  - Price, W.C. and Ralph W.G. Wyckoff, 1939
  - V. tobacco ring spot
  - Allington, William B., 1946
  - Anderson, C.W., 1954
  - Berkeley, G.H., 1951, 1953
  - Bridgmon, G.H. and J.C. Walker, 1952
  - Brierley, Philip and Floyd F. Smith, 1954
  - Cheo, Pen Ching and W.J. Zaumeyer, 1952
  - Fulton, Robert W., 1941
  - Ivanoff, S.S., 1942
  - Johnson, E.M., 1930
  - LeBeau, F.J., 1947
  - McKeen, C.D., 1957
  - McKinney, H.H. and E.E. Clayton, 1944
  - Pound, Glenn S., 1949
  - Rosberg, David W., 1953
  - Shepherd, Robert J. and F. Ben Struble, 1956
  - Steere, Russell L., 1956
  - Wingard, S.A., 1928
  - V. tobacco ring spot no. 2
  - Brierley, Philip, 1954
  - Hildebrand, E.M., 1942
  - Price, W.C., 1940

- C. sativus*, L. (cont.)  
*V. tobacco streak*  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W. J. Zaumeyer, 1950
- V. tomato aspermy*  
 Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
 Hollings, M., 1955
- V. tomato black ring*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. tomato bushy stunt*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. turnip crinkle*  
 Broadbent, L. and G. D. Heathcote, 1958  
 Lister, R. M., 1958
- V. watermelon mosaic*  
 Anderson, C. W., 1952, 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. yam mosaic* \*  
 Adsuar, Jose, 1955
- CUCURBITA ((Tourn.)) L. 1735 (Cucurbitaceae)  
 (PEPO) ((Tourn.)) L. 1735
- C. ficifolia*, Bouche  
*V. prunus A* \*  
 Fulton, Robert W., 1957
- V. prunus B* \*  
 Fulton, Robert W., 1957
- V. prunus E* \*  
 Fulton, Robert W., 1957
- V. prunus G* \*  
 Fulton, Robert W., 1957
- C. lagenaria*, L.  
*V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950
- C. maxima*, Dcne.  
*V. aster yellows*  
 Freitag, Julius H., 1956
- V. beet curly top*  
 Bennett, C. W., 1934  
 Dana, B. F., 1938  
 Lackey, C. F., 1929  
 McKay, M. B. and T. P. Dykstra, 1927  
 Severin, Henry H. P. and Charles F. Henderson, 1928
- V. (sour) cherry yellows*  
 Milbrath, J. A., 1956
- V. cucumber mosaic*  
 Anderson, C. W., 1952  
 Aycock, Robert, 1951  
 Jagger, I. C., 1918  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Magee, C. J. P., 1940  
 Pound, Glenn S. and J. C. Walker, 1948  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 Wellman, F. L., 1935
- V. cucumber western mosaic* \*  
 Freitag, Julius H., 1941
- V. cucurbit mosaic* \*  
 Doolittle, S. P. and M. N. Walker, 1925
- V. cucurbit ring mosaic* \*  
 Freitag, Julius H., 1941
- V. muskmelon mosaic*  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947
- V. peach ring spot*  
 Milbrath, J. A., 1957
- V. peach stunt* \*  
 Milbrath, J. A., 1956
- V. prune dwarf*  
 Milbrath, J. A., 1956  
 Willison, R. S., 1951
- V. prunus A* \*  
 Fulton, Robert W., 1957
- V. prunus B* \*  
 Fulton, Robert W., 1957
- V. prunus E* \*  
 Fulton, Robert W., 1957
- V. prunus G* \*  
 Fulton, Robert W., 1957
- V. rose mosaic*  
 Fulton, Robert W., 1952
- C. maxima*, Dcne. (cont.)  
*V. squash mosaic*  
 Freitag, Julius H., 1941, 1952, 1956  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. stone fruit* \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- V. stone fruit ring spot* \*  
 Milbrath, J. A., 1956
- V. tobacco broad ring spot*  
 Johnson, James and Robert W. Fulton, 1942
- V. tobacco necrosis*  
 Fulton, Joseph P., 1952  
 Fulton, Robert W., 1950
- V. tobacco ring spot*  
 McKeen, C. D., 1957  
 Pound, Glenn S., 1949
- V. tobacco ring spot no. 2*  
 Steere, Russell L., 1956  
 Wilkinson, R. E., 1952
- V. tobacco streak*  
 Fulton, Robert W., 1948
- V. watermelon mosaic*  
 Anderson, C. W., 1952, 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. wild cucumber mosaic* \*  
 Freitag, Julius H., 1941
- C. mixta*, Pang.  
*V. aster yellows*  
 Freitag, Julius H., 1956
- V. squash mosaic*  
 Freitag, Julius H., 1956
- C. moschata*, Dcne.  
*V. aster yellows*  
 Freitag, Julius H., 1956
- V. beet curly top*  
 Dana, B. F., 1941  
 Severin, Henry H. P. and Charles F. Henderson, 1928
- V. cucumber green mottle mosaic*  
 Vasudeva, R. S. and T. K. Nariani, 1952  
 Vasudeva, R. S., S. P. Raychaudhuri and Jagannath Singh, 1949
- V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Jagger, I. C., 1918  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947
- V. cucurbit mosaic* \*  
 Doolittle, S. P. and M. N. Walker, 1925
- V. muskmelon mosaic*  
 Anderson, C. W., 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947
- V. prunus A* \*  
 Fulton, Robert W., 1957
- V. prunus B* \*  
 Fulton, Robert W., 1957
- V. prunus E* \*  
 Fulton, Robert W., 1957
- V. prunus G* \*  
 Fulton, Robert W., 1957
- V. squash mosaic*  
 Freitag, Julius H., 1956  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- V. squash mosaic (southern)*  
 Anderson, C. W., 1951
- V. tobacco ring spot*  
 Bridgman, G. H. and J. C. Walker, 1952  
 Wingard, S. A., 1928
- V. tobacco ring spot no. 2*  
 Steere, Russell L., 1956
- V. watermelon mosaic*  
 Anderson, C. W., 1954  
 Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- C. okeechobeensis*, Bailey  
*V. muskmelon mosaic*  
 Anderson, C. W., 1954
- V. prunus A* \*  
 Fulton, Robert W., 1957
- V. prunus B* \*  
 Fulton, Robert W., 1957

- C. okeechobeensis, Bailey (cont.)  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. watermelon mosaic  
 Anderson, C.W., 1954
- C. pepo, L.  
 V. aster yellows  
 Freitag, Julius H., 1956  
 V. beet curly top  
 Dana, B.F., 1941  
 Severin, Henry H.P. and Charles F. Henderson,  
 1928  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935  
 Storey, I.F., 1939  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Jagger, I.C., 1916, 1918  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Pound, Glenn S. and J.C. Walker, 1948  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
 Hildebrand, 1947  
 Vasudeva, R. Sahai and T.B. Lal, 1943  
 Wellman, F.L., 1935  
 Whipple, O.C. and J.C. Walker, 1941  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. muskmelon mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
 Hildebrand, 1947  
 V. peach ring spot  
 Hobbs, Gordon A., 1951  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. squash mosaic  
 Freitag, Julius H., 1956  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Middleton, John T., 1944  
 V. stone fruit necrotic ring spot \*  
 Willison, R.S., 1951  
 V. tobacco mosaic  
 McKinney, H.H. and Robert W. Fulton, 1949  
 V. tobacco ring spot  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Pound, Glenn S., 1949  
 Steere, Russell L., 1956  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. watermelon mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- C. pepo var. medullosa, Alef. \*  
 V. muskmelon mosaic  
 Anderson, C.W., 1954
- C. pepo var. melopepo, (L.) Alef. (condensa, Bailey)  
 V. cucumber mosaic  
 Anderson, C.W., 1951  
 Jagger, I.C., 1916  
 Wellman, F.L., 1934, 1935  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 Kendrick, J.B., 1934  
 V. muskmelon mosaic  
 Anderson, C.W., 1954  
 V. squash mosaic  
 Freitag, Julius H., 1956  
 V. tobacco necrosis  
 Frazier, Norman W., 1955  
 V. tobacco ring spot  
 Anderson, C.W., 1954  
 Henderson, R.G. and S.A. Wingard, 1931  
 Rosberg, David W., 1953
- C. pepo var. melopepo, (L.) Alef. (condensa, Bailey)  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. watermelon mosaic  
 Anderson, C.W., 1954
- C. pepo var. ovifera, (L.) Alef.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 Jagger, I.C., 1916  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- CUSCUTA ((Tourn.)) L. 1735 (Convolvulaceae)  
 C. californica, Choisy  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. tobacco etch  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- C. campestris, Yuncker  
 V. bayberry yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Costa, A.S., 1944  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. potato stem mottle  
 Van der Want, J.P.H., 1955  
 V. vaccinium false blossom  
 Costa, A.S., 1944
- C. gronovii, Willd.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- C. subinclusa, Dur. & Hilg.  
 V. bayberry yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cucumber mosaic  
 Bennett, C.W., 1940  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. raspberry streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CYAMOPSIS DC. 1825 (Leguminosae)  
 C. psoraloides, DC.  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
 LeBeau, F.J., 1947  
 Starr, Chester K. and W.E. Cooper, 1944
- C. tetragonoloba, (L.) Taub.  
 V. apple mosaic  
 Yarwood, C.E., 1955  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. iris ring spot \*  
 Travis, R.V., 1957  
 V. lucerne mosaic  
 Thomas, H. Rex, 1951  
 V. peach ring spot  
 Fulton, Robert W., 1956  
 V. peach yellow bud mosaic  
 Yarwood, C.E., 1956  
 V. potato M \*  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker,  
 1956  
 V. potato paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker,  
 1956  
 Yarwood, C.E. and A.H. Gold, 1955  
 V. prunus A \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957



- C. tetragonoloba*, (L.) Taub. (cont.)  
*V. prunus* B \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
*V. prunus* E \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*V. prunus* G \*  
 Fulton, Robert W., 1957  
*V. prunus* isolates A, E, G \*  
 Fulton, Robert W., 1957  
*V. rose* mosaic  
 Fulton, Robert W., 1952  
*V. tobacco* necrosis  
 Fulton, Robert W., 1950  
*V. tobacco* ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
*V. tobacco* streak  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- CYCLANTHERA Schrad. 1831 (Cucurbitaceae)  
*C. pedata*, Schrad.  
*V. muskmelon* mosaic  
 Anderson, C.W., 1954  
*V. prunus* A \*  
 Fulton, Robert W., 1957  
*V. prunus* B \*  
 Fulton, Robert W., 1957  
*V. prunus* E \*  
 Fulton, Robert W., 1957  
*V. prunus* G \*  
 Fulton, Robert W., 1957  
*V. watermelon* mosaic  
 Anderson, C.W., 1954
- CYCLOLOMA Moq. 1840 (Chenopodiaceae)  
*C. atriplicifolium*, (Spreng.) Coult.  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961
- CYDONIA Tourn. ex Mill. 1752 (Rosaceae)  
*C. oblonga*, Mill.  
*V. pear* mosaic  
 Posnette, A.F., 1957  
*V. pear* red mottle \*  
 Posnette, A.F., 1957  
*V. quince* sooty ring spot \*  
 Posnette, A.F., 1957  
*V. quince* stunt \*  
 Posnette, A.F., 1957
- CYMBALARIA Medic. 1791 (Scrophulariaceae)  
*C. muralis*, Gaertn., Mey. & Scherb.  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cucumber* mosaic  
 Price, W.C., 1940  
*V. lucerne* mosaic  
 Price, W.C., 1940  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* necrosis  
 Price, W.C., 1940  
*V. tobacco* ring spot  
 Price, W.C., 1940  
*V. tobacco* ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- CYMBIDIUM Sw. 1799 (Orchidaceae)  
*C. insigne*, Rolfe  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1951  
*C. lowianum*, Reichb. f.  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1951  
*C. spp.*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1950  
 Jensen, D.D. and A.H. Gold, 1955  
 Murakishi, H. and M. Ishii, 1954  
 White, N.H. and D.J. Goodchild, 1955  
*V. orchid* (laelia anceps) \*  
 Jensen, D.D. and A.H. Gold, 1952
- C. spp.* (cont.)  
*V. orchid* (odontoglossum ring spot  
 Jensen, D.D. and A.H. Gold, 1952  
*V. orchid* (oncidium rogers) \*  
 Jensen, D.D. and A.H. Gold, 1952
- CYMBOPOGON Spreng. 1815 (Gramineae)  
*C. nardus*, (L.) Rendle  
*V. sugarcane* mosaic  
 Costa, A.S. and M.P. Penteadó, 1951  
 Lawas, Orencio M. and William L. Fernandez,  
 1949
- CYNARA Vaill. ex L. 1737 (Compositae)  
*C. cardunculus*, L.  
*V. cynarus* curly dwarf  
 Leach, L.D. and J.W. Oswald, 1950  
*V. rose* mosaic  
 Fulton, Robert W., 1952  
*C. scolymus*, L.  
*V. cynarus* curly dwarf  
 Leach, L.D. and J.W. Oswald, 1950  
 Morton, Donald J., 1957
- CYNODON Rich. 1805 (Gramineae)  
*C. dactylon*, (L.) Pers.  
*V. barley* yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951
- CYNOGLOSSUM ((Tourn.)) L. 1735 (Boraginaceae)  
*C. amabile*, Stapf & Drum.  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cucumber* mosaic  
 Fulton, Robert W., 1941  
 Wellman, F.L., 1935  
*V. lucerne* mosaic  
 Price, W.C., 1940  
*V. prunus* A \*  
 Fulton, Robert W., 1957  
*V. prunus* B \*  
 Fulton, Robert W., 1957  
*V. tobacco* broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco* mosaic  
 Fulton, Robert W., 1941  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
*V. tobacco* ring spot  
 Fulton, Robert W., 1941  
 Price, W.C., 1940
- CYNOSURUS L. 1737 (Gramineae)  
*C. echinatus*, L.  
*V. barley* yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- CYPERUS ((Mich.)) L. 1735 (Cyperaceae)  
*C. esculentus*, L.  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951
- CYPHOMANDRA Mart. ex Sendtn. 1845 (Solanaceae)  
*C. betacea*, (Cav.) Sendt.  
*V. potato* X  
 Larson, R.H., 1947  
 Matthews, R.E.F., 1949  
 Thompson, A.D., 1956  
*V. potato* Y  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- CYTISUS L. 1735 (Leguminosae)  
*C. scoparius*, (L.) Link  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951
- DACTYLIS L. 1742 (Gramineae)  
*D. glomerata*, L.  
*V. barley* yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953

- D. *glomerata*, L. (cont.)  
 V. cocksfoot streak  
 Smith, K.M., 1952  
 V. grass orchard mosaic \*  
 McKinney, H.H., 1956  
 V. ryegrass mosaic \*  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- DACTYLOCTENIUM Willd. 1809 (Gramineae)  
 D. *aegyptium*, (L.) Richt.  
 V. rice and corn leaf-gall \*  
 Agati, Julia A. and Carlos A. Calica, 1950  
 V. sugarcane mosaic  
 Lawas, Orenicio M. and William L. Fernandez, 1949
- DAHLIA Cav. 1791 (Compositae)  
 D. *pinnata*, Cav.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tomato spotted wilt  
 Holmes, Francis O., 1948, 1955  
 Smith, K.M., 1932
- D. spp.  
 V. chrysanthemum stunt  
 Keller, John R., 1953  
 V. potato Y  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- D. *variabilis*, (Willd.) Desf.  
 V. aster yellows  
 Smith, Floyd F. and Philip Brierley, 1953  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950  
 V. cucumber mosaic  
 Brierley, Philip, 1951  
 V. dahlia mosaic  
 Brierley, Philip, 1933, 1951  
 Brierley, Philip and Floyd F. Smith, 1950  
 V. tomato spotted wilt  
 Brierley, Philip, 1933  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Gardner, M.W. and O.C. Whipple, 1934
- DALBERGIA L. f. 1781 (Leguminosae)  
 D. *melanoxylon*, Guill. & Perr.  
 V. groundnut rosette  
 Evans, A.C., 1954
- DAPHNE Tourn. ex L. 1735 (Thymeleaceae)  
 D. *mezereum*, L.  
 V. cucumber mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- D. *odora*, Thunb.  
 V. cucumber mosaic  
 Milbrath, J.A. and Roy A. Young, 1956  
 V. lucerne mosaic  
 Milbrath, J.A. and Roy A. Young, 1956
- DATURA L. 1735 (Solanaceae)  
 D. *aegyptiaca*, Vesl.  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952
- D. *bernhardii*, Lund.  
 V. potato M \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- D. *chlorantha*, Hook.  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952
- D. *fastuosa*, L.  
 V. *nicotiana glutinosa* mosaic \*  
 Allard, H.A., 1916  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. *vaccinium false blossom*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- D. *ferox*, L.  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco etch  
 Greenleaf, W.H., 1956
- D. *inoxia*, Mill.  
 V. apple \*  
 Hilborn, M.T. and Reiner Bonde, 1956  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- D. *metel*, L.  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. potato M \*  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato X  
 Larson, R.H., 1947  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 V. tobacco mosaic  
 Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- D. *metel* var. *fastuosa*, L. \*  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952
- D. *meteloides*, DC.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. jimsonweed mosaic \*  
 Fernow, Karl Hermann, 1925  
 V. potato X  
 Fernow, Karl Hermann, 1925  
 V. tobacco etch  
 Bennett, C.W., 1944  
 V. tobacco mosaic  
 Keener, Paul D., 1954  
 V. tomato bushy stunt  
 Steere, Russell L., 1953  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- D. spp.  
 V. tobacco ring spot  
 Smith, Kenneth M., 1929  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- D. *stramonium*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 Raymer, W.B., 1956  
 V. *atropa belladonna* mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. beet curly top  
 Adsuar, Jose, 1955  
 Bennett, C.W. and A.S. Costa, 1949  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Costa, A.S., 1952  
 Fulton, Robert W., 1955  
 Giddings, N.J., 1944, 1954

- D. stramonium, L. (cont.)
- V. beet curly top  
Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951  
Severin, Henry H.P., 1929, 1934
- V. beet ring spot \*  
Harrison, B.D., 1957
- V. cabbage black ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. carnation ring spot  
Brierley, Philip and Floyd F. Smith, 1957
- V. carrot motley dwarf  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
- V. cucumber green mottle mosaic  
Ainsworth, G.C., 1935  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- V. cucumber mosaic  
Berkeley, G.H., 1951, 1953  
Bhargava, K.S., 1951  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Hollings, M., 1955  
Johnson, E.M., 1930  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Smith, Kenneth M., 1935  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
- V. datura rugose leaf curl  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. delphinium ring spot  
Severin, Henry H.P. and R.C. Dickson, 1942
- V. euphorbia mosaic  
Costa, A.S. and C.W. Bennett, 1950
- V. henbane mosaic  
Bradley, R.H.E., 1952  
Hamilton, Marion A., 1932
- V. jimsonweed mosaic \*  
Fernow, Karl Hermann, 1925
- V. (legume) little leaf disease \*  
Hutton, E.M. and N.E. Grylls, 1956
- V. lovage mosaic  
Smith, K.M. and Roy Markham, 1944
- V. lucerne mosaic  
Berkeley, G.H., 1947  
Oswald, John W., 1950  
Porter, D.R., 1935  
Richardson, D.E. and T.W. Tinsley, 1956  
Thomas, H. Rex, 1951, 1953  
Zaumeyer, W.J., 1938, 1953
- V. lucerne witches' broom  
Helms, Katie, 1957
- V. orchid (cymbidium) mosaic  
Jensen, D.D. and A.H. Gold, 1955  
White, N.H. and D.J. Goodchild, 1955
- V. peach X disease  
Slack, Derald A., 1952
- V. physalis floridana yellow net  
Webb, R.E., 1955
- V. potato A  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- V. potato aucuba mosaic  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Dennis, R.W.G., 1939
- V. potato leaf roll  
Dykstra, T.P., 1930, 1933  
Kassanis, B., 1952  
Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
Webb, R.E., 1956  
Williams, W. Llewelyn and A. Frank Ross, 1957
- V. potato necrotic \*  
Schultz, E.S. and W.P. Raleigh, 1933
- V. potato X  
Ainsworth, G.C., 1933, 1934
- D. stramonium, L. (cont.)
- V. potato X  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bawden, F.C., 1936  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1933, 1939  
Fernow, Karl Hermann, 1925  
Folsom, Donald and Reiner Bonde, 1937  
Goss, R.W., 1931  
Hutton, E.M., 1949  
Jarrett, Phyllis H., 1930  
Johnson, E.M., 1930  
Johnson, James, 1925  
Roberts, F.M., 1948  
Samson, R.W., 1930  
Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
Schultz, E.S. and W.P. Raleigh, 1936  
Smith, J. Henderson, 1928  
Thompson, A.D., 1956  
Vasudeva, R. Sahai and T.B. Lal, 1944
- V. potato Y  
Bawden, F.C., 1936  
Bawden, F.C. and B. Kassanis, 1947  
Samson, R.W., 1930
- V. potato yellow dwarf  
Hougas, R.W., 1951
- V. prunus B \*  
Fulton, Robert W., 1957
- V. raspberry Scottish leaf curl  
Cadman, C.H., 1956  
Harrison, B.D., 1958  
Lister, R.M., 1958
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
- V. red currant ring spot  
Klesser, P.J., 1951
- V. tobacco bergerer ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
- V. tobacco coarse etch  
Johnson, E.M., 1930
- V. tobacco etch  
Anderson, C.W. and M.K. Corbett, 1957  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Fulton, Robert W., 1941  
Greenleaf, W.H., 1956  
Holmes, Francis O., 1942, 1946  
Johnson, E.M., 1930
- V. tobacco leaf curl  
Vasudeva, R.S. and J. Sam Raj, 1948
- V. tobacco mosaic  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Allard, H.A., 1916  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951  
Caldwell, John, 1932  
Crawford, R.F., 1921  
Das, C.R. and S.P. Raychaudhuri, 1953  
Doolittle, S.P. and F.S. Beecher, 1942  
Holmes, F.O., 1934, 1946  
Jarrett, Phyllis H., 1930  
Johnson, E.M., 1930  
McKinney, H.H., 1952  
McKinney, H.H. and Robert W. Fulton, 1949  
Samson, R.W., 1930
- V. tobacco mottle  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco ring spot  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cooper, W.E., 1949  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fulton, Robert W., 1941

- D. stramonium, L. (cont.)
- V. tobacco ring spot
    - Henderson, R.G. and S.A. Wingard, 1931
    - Johnson, E.M., 1930
    - Steere, Russell L., 1956
    - Thomas, H. Rex and W.J. Zaumeyer, 1950
    - Wingard, S.A., 1928
  - V. tobacco ring spot no. 2
    - Brierley, Philip, 1954
  - V. tobacco streak
    - Fulton, Robert W., 1941, 1948
    - Johnson, J., 1936
    - Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. tobacco vein distorting
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tobacco yellow dwarf
    - Helson, G.A.H., 1950
    - Hill, A.V., 1950
    - Hill, A.V. and M. Mandryk, 1954
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
    - Hollings, M., 1955
  - V. tomato big bud
    - Helms, Katie, 1957
    - Hill, A.V. and M. Mandryk, 1954
    - Norris, D.O., 1954
  - V. tomato black ring
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato bushy stunt
    - Steere, Russell L., 1953
  - V. tomato ring spot
    - Imle, E.P. and R.W. Samson, 1937
    - Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt
    - Ainsworth, G.C., 1933
    - Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934
    - Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
    - Gardner, M.W. and O.C. Whipple, 1934
    - Milbrath, J.A., 1939
    - Norris, D.O., 1951
    - Sakimura, K., 1940
    - Shapovalov, M., 1934
    - Smith, Kenneth M., 1931, 1932, 1935
    - Snyder, W.C. and H. Rex Thomas, 1936
    - Whipple, O.C., 1936
  - V. tomato V-52-1
    - Miller, Patrick M., 1953
  - V. turnip crinkle
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip rosette \*
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. vaccinium ring spot
    - Hilborn, M.T. and Reiner Bonde, 1956
- D. stramonium var. tatula, (L.) Torr.
- V. datura rugose leaf curl
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. lucerne witches' broom
    - Helms, Katie, 1957
  - V. potato A
    - MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato aucuba mosaic
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato leaf roll
    - Dykstra, T.P., 1930, 1933
    - Kassanis, B., 1952
    - Webb, R.E., R.H. Larson and J.C. Walker, 1952
  - V. potato X
    - Dykstra, T.P., 1933
    - Larson, R.H., 1947
    - Matthews, R.E.F., 1949
    - Timian, Roland G., W.J. Hooker and C.E. Peterson, 1955
  - V. tobacco yellow dwarf
    - Helson, G.A.H., 1950
  - V. tomato big bud
    - Helms, Katie, 1957
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
  - D. wrightii, Hort. ex Regel
    - V. tomato spotted wilt
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- DAUCUS ((Tourn.)) L. 1735 (Umbelliferae)
- D. carota, L.
- V. aster yellows
    - George, J.A. and J.K. Richardson, 1957
  - V. bayberry yellows
    - Raychaudhuri, S.P., 1953
  - V. clover witches' broom \*
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. cucumber mosaic
    - Wellman, F.L., 1935
  - V. (legume) little leaf disease \*
    - Hutton, E.M. and N.E. Grylls, 1956
  - V. lucerne witches' broom
    - Helms, Katie, 1957
  - V. tobacco mosaic
    - Holmes, Francis O., 1938, 1946
  - V. tomato big bud
    - Helms, Katie, 1957
  - V. vaccinium false blossom
    - Kunkel, L.O., 1945
  - V. vinca yellows \*
    - Maramorosch, Karl, 1956
- D. carota var. sativa, DC.
- V. asclepias yellows \*
    - Kunkel, L.O., 1950
  - V. aster yellows
    - Hervey, G.E.R. and W.T. Schroeder, 1949
    - Severin, Henry H.P., 1930, 1932, 1934
    - Severin, Henry H.P. and Julius H. Freitag, 1945
  - V. bayberry yellows
    - Raychaudhuri, S.P., 1952
  - V. carrot motley dwarf
    - Stubbs, L.L., 1956
  - V. celery mosaic
    - Freitag, Julius H. and Henry H.P. Severin, 1945
    - Severin, Henry H.P. and Julius H. Freitag, 1938
  - V. datura rugose leaf curl
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. lucerne dwarf
    - Freitag, Julius H., 1951
  - V. lucerne mosaic
    - Price, W.C., 1940
  - V. lucerne witches' broom
    - Kunkel, L.O., 1952
  - V. peach western X disease
    - Weathers, Lewis G. and George W. Cochran, 1950
  - V. peach X disease
    - Kunkel, L.O., 1944
    - Slack, Derald A., 1952
  - V. poison hemlock ring spot
    - Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. tobacco mosaic
    - Grant, T.J., 1934
  - V. tomato big bud
    - Kunkel, L.O., 1951
  - V. vinca yellows \*
    - Maramorosch, Karl, 1957
- DELPHINIUM Tourn. ex L. 1735 (Ranunculaceae)
- D. ajacis, L.
- V. aster yellows
    - Severin, Henry H.P. and Julius H. Freitag, 1945
  - V. cucumber mosaic
    - Nienow, Inez, 1948
  - V. radish mosaic
    - Tompkins, C.M., 1939
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
  - V. turnip mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- D. cardinale, Hook.
- V. cucumber western mosaic \*
    - Severin, Henry H.P., 1942
- D. consolida, L.
- V. cucumber mosaic
    - Wellman, F.L., 1935
  - V. tobacco mosaic
    - Grant, T.J., 1934

- D. cultorum*, Voss  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 Severin, Henry H.P. and Sidney J. Oliver, 1939  
*V. cucumber mosaic*  
 Valleau, W.D., 1932  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tomato spotted wilt*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- D. formosum*, Boiss. & Huet.  
*V. cucumber mosaic*  
 Severin, Henry H.P., 1942  
*V. cucumber western mosaic \**  
 Severin, Henry H.P., 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942
- D. grandiflorum*, L.  
*V. anemone mosaic \**  
 Hollings, M., 1957  
*D. grandiflorum var. album*, Hort.  
*V. aster yellows*  
 Severin, Henry H.P., 1942  
*V. cucumber western mosaic \**  
 Severin, Henry H.P., 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942
- D. hybrid*  
*V. aster yellows*  
 Severin, Henry H.P., 1942  
*V. cucumber mosaic*  
 Severin, Henry H.P., 1942  
*V. cucumber western mosaic \**  
 Severin, Henry H.P., 1942  
*V. delphinium ring spot*  
 Severin, Henry H.P. and R.C. Dickson, 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942  
*V. tobacco mosaic*  
 Severin, Henry H.P., 1942  
*V. tobacco ring spot*  
 Severin, Henry H.P., 1942  
*V. tomato spotted wilt*  
 Severin, Henry H.P., 1942
- D. nudicaule*, Torr. & Gray  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P., 1942
- D. parryi*, Gray, var. *maritimum*, Davidson  
*V. cucumber mosaic*  
 Severin, Henry H.P., 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942
- D. spp.*  
*V. anemone latent \**  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. aster yellows*  
 Severin, Henry H.P., 1942  
*V. beet curly top*  
 Severin, Henry H.P., 1942  
*V. cucumber mosaic*  
 Burnett, G., 1934  
*V. cucumber western mosaic \**  
 Severin, Henry H.P., 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942  
*V. tobacco broad ring spot*  
 Johnson, James and Robert W. Fulton, 1942
- D. zalil*, Aitch. & Hemsl.  
*V. cucumber western mosaic \**  
 Severin, Henry H.P., 1942  
*V. lucerne mosaic*  
 Severin, Henry H.P., 1942
- DENDROBIUM Sw. 1799 (Orchidaceae)  
*D. superbum*, Reichb. f.  
*V. orchid (dendrobium) mosaic \**  
 Murakishi, Harry H., 1952  
 Murakishi, Harry H. and M. Ishii, 1954
- DESCHAMPSIA Beauv. 1812 (Gramineae)  
*D. caespitosa*, (L.) Beauv.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
*D. danthonioides*, (Trin.) Munro  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957
- DESMODIUM Desv. 1813 (Leguminosae)  
*D. batocaulon*, A. Gray  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*D. canadense*, (L.) DC.  
*V. pea mosaic*  
 Murphy, D.M. and W.H. Pierce, 1937  
*D. canum*, Schinz & Thell.  
*V. kaimi clover disease \**  
 Murakishi, Harry H., 1952  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*D. frutescens*, Schindl.  
*V. cowpea mosaic*  
 Dale, W.T., 1949  
*D. gangeticum*, (L.) DC.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*D. incanum*, DC.  
*V. cowpea mosaic*  
 Anderson, C.W., 1955  
*D. scorpiurus*, (Sw.) Desv.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956  
*D. uncinatum*, (Jacq.) DC.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956
- DIANTHUS L. 1735 (Caryophyllaceae)  
*D. arenarius*, L.  
*V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. armeria*, L.  
*V. clover big vein*  
 Black, L.M., 1945  
*D. barbatus*, L.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. carnation mosaic*  
 Ames, Ralph W. and H.H. Thornberry, 1952  
 Ames, Ralph W., A.E. Vatter, John J. Scholz and H.H. Thornberry, 1951  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 Gasiorkiewicz, E.C., 1954, 1956  
 Rumley, Gail E. and W.D. Thomas, Jr., 1951  
 Thomas, W.D., Jr. and R.R. Baker, 1952  
 Wright, Charles M., 1951  
*V. carnation mottle*  
 Brierley, Philip and Floyd F. Smith, 1957  
 Kassanis, B., 1955  
*V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957  
 Kassanis, B., 1955  
*V. carnation vein mottle*  
 Kassanis, B., 1955  
*V. clover big vein*  
 Black, L.M., 1945  
*V. hydrangea ring spot*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*V. potato paracrinkle*  
 Kassanis, B., 1955  
*V. rhubarb ring spot \**  
 Vaughan, Edward K. and John W. Yale, Jr., 1953  
 Yale, John W., Jr. and Edward K. Vaughan, 1954  
*D. caesius*, Smith  
*V. carnation ring spot.*  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. caryophyllus*, L.  
*V. aster yellows*  
 Brierley, Philip and Floyd F. Smith, 1957

- D. caryophyllus*, L. (cont.)  
 V. aster yellows  
 Jones, Leon K., 1945  
 Thomas, W.D., Jr., 1953  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. carnation mosaic  
 Ames, Ralph W. and H.H. Thornberry, 1952  
 Ames, Ralph W., A.E. Vatter, John J. Scholz  
 and H.H. Thornberry, 1951  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 Creager, D.B., 1943  
 Gasiorkiewicz, E.C., 1954, 1956  
 Jones, Leon K., 1945  
 Rumley, Gail E. and W.D. Thomas, Jr., 1951  
 Thomas, W.D. Jr. and R.R. Baker, 1952  
 Wright, Charles M., 1951  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 Kassanis, B., 1955  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 Kassanis, B., 1955  
 V. carnation vein mottle  
 Kassanis, B., 1955  
 V. potato paracrinkle  
 Kassanis, B., 1955  
*D. chinensis*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. chinensis* var. *heddewigii*, Regel  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*D. deltoides*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. giganteus*, Urv.  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. latifolius*, Willd.  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
*D. plumarius*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P., 1939  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. tobacco ring spot  
 Price, W.C., 1940  
*D. spp.*  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945  
*D. superbus*, L.  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957
- DICHOSTACHYS* Wight & Arn. 1834 (Leguminosae)  
*D. nyassana*, Taub.  
 V. groundnut rosette  
 Evans, A.C., 1954
- DIDISCUS* DC. 1828 (Umbelliferae)  
*D. caeruleus*, DC.  
 V. aster yellows  
 Kunkel, L.O., 1926
- DIGITALIS* ((Tourn.)) L. 1735 (Scrophulariaceae)  
*D. ambigua*, Murr.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*D. lanata*, Ehrh.  
 V. potato X  
 Larson, R.H., 1944  
*D. purpurea*, L.  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- DIGITARIA* Heist. ex Adans. 1763 (Gramineae)  
*D. corymbosa*, Merr.  
 V. sugarcane mosaic  
 Lawas, Orencio M. and William L. Fernandez,  
 1949  
*D. horizontalis*, Willd.  
 V. maize streak  
 Storey, H.H. and A.P.D. McClean, 1930  
*D. ischaemum*, (Schreb.) Muhl.  
 V. barley stripe mosaic  
 McKinney, H.H., 1951, 1953  
 V. brome mosaic  
 McKinney, H.H., 1953  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
 Meiners, Jack P. and H.H. McKinney, 1954  
*D. sanguinalis*, (L.) Scop.  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. panicum mosaic \*  
 Sill, W.H., Jr., 1957  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. sugarcane mosaic  
 Ingram, J.W. and E.M. Summers, 1938  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952, 1955
- DIMORPHOTHECA* Vaill. ex L. 1735 (Compositae)  
*D. aurantiaca*, DC.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- DIOSCOREA* Plum. ex L. 1737 (Dioscoreaceae)  
*D. rotundata*, Poir.  
 V. yam mosaic \*  
 Adsuar, Jose, 1955
- DIPLACUS* Nutt. 1838 (Scrophulariaceae)  
*D. aurantiacus*, Hort. ex Vilmorin's Blumeng  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- DIPLLOTAXIS* DC. 1821 (Cruciferae)  
*D. tenuifolia*, (L.) DC.  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958

- DIPSACUS L. 1735 (Dipsaceae)  
 D. fullonum, L.  
   V. aster yellows  
     Frazier, Norman W. and Henry H.P. Severin, 1945  
   V. teasel mosaic  
     Stoner, Warren N., 1951  
 D. spp.  
   V. cucumber mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 D. sylvestris, Mill.  
   V. tomato black ring  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 DODONAEA L. 1737 (Sapindaceae)  
 D. viscosa, Jacq.  
   V. sandal spike  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 DOLICHOS L. 1737 (Leguminosae)  
 D. biflorus, L.  
   V. bean yellow mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
   V. rose mosaic  
     Fulton, Robert W., 1952  
   V. tobacco streak  
     Fulton, Robert W., 1948  
 D. fulcatus \*  
   V. groundnut rosette  
     Evans, A.C., 1954  
 D. lablab, L.  
   V. cowpea mosaic  
     Anderson, C.W., 1955  
     Dale, W.T., 1949  
   V. cucumber mosaic  
     Anderson, C.W., 1955  
   V. lucerne mosaic  
     Pierce, W.H., 1934  
     Zaunmeyer, W.J., 1953  
   V. tobacco broad ring spot  
     Johnson, James and Robert W. Fulton, 1942  
   V. tobacco ring spot  
     Cheo, Pen Ching and W.J. Zaunmeyer, 1952  
     Fulton, Robert W., 1941  
     Pierce, W.H., 1934  
     Wingard, S.A., 1928  
 D. malosanus, Baker  
   V. groundnut rosette  
     Evans, A.C., 1954  
 D. striatus, Steud.  
   V. (legume) little leaf disease \*  
     Hutton, E.M. and N.E. Grylls, 1956  
 DUCHESNEA Smith 1811 (Rosaceae)  
 D. indica, (Andr.) Focke  
   V. clover witches' broom \*  
     Frazier, N.W. and A.F. Posnette, 1957  
   V. strawberry green petal  
     Frazier, N.W. and A.F. Posnette, 1957  
 ECBALLIUM A. Rich. 1824 (Cucurbitaceae)  
 E. elaterium, A. Rich.  
   V. cucurbit mosaic \*  
     Doolittle, S.P. and M.N. Walker, 1925  
 ECHINACEA Moench 1794 (Compositae)  
 E. purpurea, (L.) Moench  
   V. chrysanthemum stunt  
     Brierley, Philip, 1950, 1953  
     Keller, John R., 1953  
 ECHINOCHLOA Beauv. 1812 (Gramineae)  
 E. colonum, (L.) Link  
   V. sugarcane mosaic  
     Chardon, C.E. and R.A. Veve, 1923  
 E. crus-galli, (L.) Beauv.  
   V. barley stripe mosaic  
     Slykhuis, J.T., 1952  
   V. lucerne dwarf  
     Freitag, Julius H., 1951  
   V. oat pseudo-rosette  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
   V. panicum mosaic \*  
     Sill, W.H., Jr., 1957  
     Sill, W.H., Jr. and R.C. Pickett, 1957  
   E. crus-galli, (L.) Beauv. (cont.)  
     V. sugarcane mosaic  
       Brandes, E.W. and Peter J. Klaphaak, 1923  
     V. wheat streak mosaic  
       Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
       Slykhuis, J.T., 1952, 1955  
   E. crus-galli var. edulis, Hitchc.  
     V. rice dwarf  
       (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 ECHINOCYSTIS Torr. & Gray 1840 (Cucurbitaceae)  
 (MICRAMPELIS) Raf. 1808  
 E. lobata, (Michx.) Torr. & Gray (M. lobata, Greene)  
   V. cucumber mosaic  
     Doolittle, S.P. and W.W. Gilbert, 1918  
   V. cucurbit mosaic \*  
     Doolittle, S.P., 1921  
     Doolittle, S.P. and W.W. Gilbert, 1919  
     Doolittle, S.P. and M.N. Walker, 1924, 1925  
   V. prunus A \*  
     Fulton, Robert W., 1957  
   V. prunus B \*  
     Fulton, Robert W., 1957  
   V. prunus E \*  
     Fulton, Robert W., 1957  
   V. prunus G \*  
     Fulton, Robert W., 1957  
   V. wild cucumber mosaic \*  
     Fernow, Karl Hermann, 1925  
 E. oregana, (Torr. & Gray) Cogn.  
   V. (cucumber) O.S.C. isolate 606 \*  
     Porter, Clark A. and Frank P. McWhorter, 1951  
 ECHIUM Tourn. ex L. 1737 (Boraginaceae)  
 E. vulgare, L.  
   V. cabbage black ring spot  
     Hollings, M., 1957  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
 ELETTARIA Maton 1811 (Zingiberaceae)  
 E. cardamomum, Maton  
   V. cardamom mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 ELEUSINE Gaertn. 1788 (Gramineae)  
 E. indica, (L.) Gaertn.  
   V. maize streak  
     Storey, H.H. and A.P.D. McClean, 1930  
   V. rice and corn leaf-gall \*  
     Agati, Julian A. and Carlos A. Calica, 1950  
   V. sugarcane mosaic  
     Chardon, C.E. and R.A. Veve, 1923  
     Lawas, Orencio M. and William L. Fernandez, 1949  
   V. sugarcane streak  
     Storey, H.H. and A.P.D. McClean, 1930  
 ELYMUS L. 1748 (Gramineae)  
 E. canadensis, L.  
   V. wheat streak mosaic  
     McKinney, H.H. and Hurley Fellows, 1951  
     Slykhuis, J.T., 1955  
 E. caput-medusae, L.  
   V. barley yellow dwarf  
     Bruehl, G.W. and H.V. Toko, 1957  
     Oswald, John W. and Byron R. Houston, 1953  
 E. condensatus, Presl  
   V. barley yellow dwarf  
     Bruehl, G.W. and H.V. Toko, 1957  
   V. wheat streak mosaic  
     McKinney, H.H. and Hurley Fellows, 1951  
 E. giganteus, Vahl  
   V. wheat streak mosaic  
     McKinney, H.H. and Hurley Fellows, 1951  
 E. triticoides, Buckl.  
   V. barley yellow dwarf  
     Oswald, John W. and Byron R. Houston, 1953  
 E. virginicus, L.  
   V. wheat streak mosaic  
     McKinney, H.H. and Hurley Fellows, 1951

- EMILIA Cass. 1817 (Compositae)  
*E. flammula*, Cass.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*E. sagittata*, DC.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953  
 V. cucumber mosaic  
 Wellman, F. L., 1934, 1935  
 V. tobacco mosaic  
 Grant, T. J., 1934  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
 V. tomato spotted wilt  
 Gardner, M. W., C. M. Tompkins and O. C. Whipple, 1935  
 Linford, M. B., 1931, 1932  
 Whipple, O. C., 1936  
*E. sonchifolia*, Hort.  
 V. tomato spotted wilt  
 Norris, D. O., 1951  
 Parris, G. K., 1940  
 Sakimura, K., 1940
- EMMENANTHE Benth. 1835 (Hydrophyllaceae)  
*E. penduliflora*, Benth.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- ENSETE Bruce 1862 (Musaceae)  
*E. glaucum*, (Roxb.) Cheesman  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- EPIDENDRUM L. 1737 (Orchidaceae)  
*E. spp.*  
 V. orchid (cymbidium) mosaic  
 Jensen, D. D. and A. H. Gold, 1955
- EPILOBIUM Dill. ex L. 1735 (Onagraceae)  
*E. californicum*, Hausskn.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
*E. paniculatum*, Nutt.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- ERAGROSTIS Host 1809 (Gramineae)  
*E. abyssinica*, Link  
 V. maize streak  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*E. amabilis*, (L.) Wight & Arn.  
 V. sugarcane mosaic  
 Lawas, Orencio M. and William L. Fernandez, 1949  
*E. aspera*, Nees  
 V. maize streak  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*E. ciliaris*, (All.) Link (*E. major*, Host)  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. wheat spot mosaic \*  
 Slykhuis, J. T., 1956  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952, 1955  
 V. wheat striate mosaic  
 Slykhuis, J. T., 1952, 1953  
*E. curvula*, (Schrud.) Nees  
 V. maize streak  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*E. diffusa*, Buckl.  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- E. trichodes*, (Nutt.) Wood  
 V. wheat streak mosaic  
 McKinney, H. H. and Hurley Fellows, 1951
- ERIGERON L. 1737 (Compositae)  
*E. annuus*, (L.) Pers.  
 V. aster yellows  
 Kunkel, L. O., 1926  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
*E. canadensis*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
 Kunkel, L. O., 1926  
 McClintock, J. A., 1931  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco ring spot  
 Wingard, S. A., 1928  
*E. linifolius*, Willd.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945
- ERIOBOTRYA Lindl. 1822 (Rosaceae)  
*E. spp.*  
 V. apple mosaic  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- ERODIUM L'Herit. 1787 (Geraniaceae)  
*E. botrys*, Bertol.  
 V. beet curly top  
 Severin, Henry H. P., 1934  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
*E. chamaefryoides*, L'Herit., var. *roseum* \*  
 V. filaree red leaf  
 Anderson, Chris W., 1952  
*E. cicutarium*, (L.) L'Herit.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
 V. beet curly top  
 Carsner, E., 1919  
 Carsner, E. and C. F. Stahl, 1924  
 Giddings, N. J., 1944  
 Lackey, C. F., 1937  
 Severin, Henry H. P., 1934  
 V. filaree red leaf  
 Anderson, Chris W., 1951  
 Frazier, Norman W., 1951  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. peach yellow bud mosaic  
 Karle, Harry P., 1957  
 V. strawberry green petal  
 Frazier, N. W. and A. F. Posnette, 1957  
 V. tobacco yellow dwarf  
 Helson, G. A. H., 1950  
 Hill, A. V., 1950  
 V. vaccinium false blossom  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*E. cygnorum*, Nees  
 V. tobacco yellow dwarf  
 Helson, G. A. H., 1950  
 V. vaccinium false blossom  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*E. macrophyllum*, Hook. & Arn.  
 V. beet curly top  
 Severin, Henry H. P., 1934  
*E. moschatum*, L'Herit.  
 V. aster yellows  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
 V. beet curly top  
 Carsner, E., 1919  
 Severin, Henry H. P., 1934  
 V. filaree red leaf  
 Anderson, Chris W., 1951  
 Frazier, Norman W., 1951
- ERYNGIUM ((Tourn.)) L. 1735 (Umbelliferae)  
*E. aquaticum*, L.  
 V. cucumber mosaic  
 Johnson, James, 1946  
 Johnson, James and Edith M. Hein, 1948



- E. aquaticum*, L. (cont.)  
*V. eryngium* yellow mosaic \*  
 Johnson, James, 1946  
 Johnson, James and Edith M. Hein, 1948  
*V. tobacco* mosaic  
 Johnson, James, 1946
- ERYSIMUM ((Tourn.)) L. 1735 (Cruciferae)  
*E. cheiranthoides*, L.  
*V. cucumber* mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
*V. turnip* crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip* rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip* yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- E. repandum*, L.  
*V. beet* curly top  
 Giddings, N.J., 1944
- ERYTHROPSIS Endl. \* (Sterculiaceae)  
*E. barteri*, (Mast.) Ridley  
*V. cacao* swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- ESCALLONIA Mutis, ex L. f. 1781 (Saxifragaceae)  
*E. montevidensis*, DC.  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951
- ESCHSCHOLTZIA Cham. 1820 (Papaveraceae)  
(ESCHSCHOLZIA) Cham. 1820  
*E. californica*, Cham.  
*V. aster* yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
*V. beet* curly top  
 Giddings, N.J., 1944  
*V. lucerne* mosaic  
 Price, W.C., 1940  
*V. tobacco* necrosis  
 Price, W.C., 1940  
*V. tobacco* ring spot  
 Price, W.C., 1940  
*V. tobacco* ring spot no. 2  
 Brierley, Philip, 1954  
*V. vaccinium* false blossom  
 Kunkel, L.O., 1945
- EUCHLAENA Schrad. 1832 (Gramineae)  
*E. mexicana*, Schrad.  
*V. brome* mosaic  
 McKinney, H.H., 1944  
*V. cucumber* mosaic  
 Wellman, F.L., 1934, 1935  
*V. maize* streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. sugarcane* mosaic  
 Chona, B.L. and S.A. Rafay, 1950  
*V. wheat* streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- E. perennis*, Hitchc.  
*V. brome* mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- EUCOMIS L'Herit. 1788 (Liliaceae)  
*E. spp.*  
*V. ornithogalum* mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- EUGENIA Mich. ex L. 1735 (Myrtaceae)  
*E. caryophyllata*, Thunb.  
*V. clove* sudden death disease \*  
 Nutman, F.J. and F.M.L. Sheffield, 1949  
*E. myrtifolia*, Sims  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951
- EUONYMUS L. 1737 (Celastraceae)  
*E. fortunei* (Turcz.) Hand.-Mazz., var. *radicans* (Miq.) Rehd.  
*V. euonymus* infectious variegation  
 Woods, M.W. and H.G. DuBuy, 1943
- EUPATORIUM ((Tourn.)) L. 1735 (Compositae)  
*E. lasseauxii*, Carr.  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946
- EUPHORBIA L. 1737 (Euphorbiaceae)  
*E. corollata*, L.  
*V. cucumber* mosaic  
 Faan, Hwei-Chung and James Johnson, 1951  
*E. hirta*, L.  
*V. tobacco* leaf curl  
 Pruthi, Hem Singh and C.K. Samuel, 1941  
*E. marginata*, Pursh  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*E. peplus*, L.  
*V. beet* curly top  
 Severin, Henry H.P., 1934  
*E. prunifolia*, Jacq.  
*V. beet* curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
*V. euphorbia* mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*E. splendens*, Bojer  
*V. cucumber* mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- FAGOPYRUM Tourn. ex Hall. 1742 (Polygonaceae)  
*F. esculentum*, Moench  
*V. aster* yellows  
 Kunkel, L.O., 1926  
*V. beet* curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Carsner, E., 1919  
 Costa, A.S., 1952  
 Severin, Henry H.P., 1929  
*V. cucumber* mosaic  
 Fulton, Robert W., 1941  
 Wellman, F.L., 1935  
*V. dodder* latent mosaic  
 Bennett, C.W., 1944  
*V. euphorbia* mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*V. rhubarb* ring spot \*  
 Vaughan, Edward K. and John W. Yale, Jr., 1953  
 Yale, John W., Jr. and Edward K. Vaughan, 1954  
*V. tobacco* broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco* mosaic  
 Fulton, Robert W., 1941  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
*V. tobacco* streak  
 Fulton, Robert W., 1948
- FESTUCA ((Tourn.)) L. 1735 (Gramineae)  
*F. arundinacea*, Schreb.  
*V. barley* yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*F. elatior*, L.  
*V. barley* yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
*V. ryegrass* mosaic \*  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957  
*F. idahoensis*, Elmer  
*V. barley* yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
*F. megalura*, Nutt.  
*V. lucerne* dwarf  
 Freitag, Julius H., 1951

- F. myuros*, L.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- F. ovina*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- F. reflexa*, Buckl.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953
- F. rubra*, L.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- F. spp.*  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1952
- FICUS** Tourn. ex L. 1735 (Moraceae)
- F. altissima*, Blume  
 V. fig mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- F. carica*, L.  
 V. fig mosaic  
 Condit, I.J. and W.T. Horne, 1933, 1941, 1943  
 Flock, R.A. and J.M. Wallace, 1955
- F. carica* var. *sylvestris* \*  
 V. fig mosaic  
 Condit, I.J. and W.T. Horne, 1943
- F. krishna*, DC.  
 V. fig mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- F. pseudocarica*, Miq.  
 V. fig mosaic  
 Condit, I.J. and W.T. Horne, 1933
- F. tsida* \*  
 V. fig mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- FOENICULUM** Tourn. ex L. 1735 (Umbelliferae)
- F. vulgare*, Mill.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- F. vulgare* var. *dulce*, (Mill.) Fiori  
 V. beet curly top  
 Severin, Henry H.P., 1929
- FORTUNELLA** Swingle 1915 (Rutaceae)
- F. margarita*, (Lour.) Swingle  
 V. citrus vein yellowing disease \*  
 Weathers, L.G., 1957
- FRAGARIA** ((Tourn.)) L. 1735 (Rosaceae)
- F. bracteata*, Heller  
 V. aster yellows  
 Frazier, Norman W. and Harold E. Thomas, 1953
- V. filaree red leaf  
 Anderson, Chris W., 1952
- V. strawberry crinkle  
 Frazier, Norman W., 1951
- V. strawberry latent  
 Frazier, Norman W., 1953
- F. californica*, Cham. & Schlecht.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- V. strawberry veinbanding  
 Frazier, Norman W., 1955
- V. tobacco necrosis  
 Frazier, Norman W., 1955
- F. chiloensis*, Dcne.  
 V. strawberry crinkle  
 Harris, R.V. and Mary E. King, 1942  
 Miller, P.W., 1951  
 Zeller, S.M., 1933
- V. strawberry latent  
 Miller, P.W., 1951
- F. chiloensis* var. *ananassa*, Bailey  
 V. aster yellows  
 Frazier, Norman W. and Harold E. Thomas, 1953  
 Fulton, J.P., 1957
- F. chiloensis* var. *ananassa*, Bailey (cont.)  
 V. strawberry crinkle  
 Beaumont, A. and L.N. Staniland, 1945  
 Miller, P.W., 1952  
 Prentice, I.W., 1949, 1952  
 Vaughan, E.K., 1933  
 Zeller, S.M., 1933
- V. strawberry green petal  
 Posnette, A.F., 1953
- V. strawberry, isolate I, mild mottle \*  
 Rorie, Forest Gay, 1957
- V. strawberry, isolate II \*  
 Rorie, Forest Gay, 1957
- V. strawberry latent  
 McGrew, J.R., 1956
- V. strawberry mild mottle \*  
 McGrew, J.R., 1956
- V. strawberry mild yellow edge  
 Prentice, I.W., 1952
- V. strawberry mottle  
 Mellor, Frances C. and R.E. Fitzpatrick, 1952  
 Prentice, Ian W., 1948, 1952  
 Scott, D.H., D.P. Ink, George M. Darrow and C.P. Marcus, 1952
- V. strawberry stunt  
 Skiles, R.L. and T.H. King, 1952  
 Zeller, S.M. and L.E. Weaver, 1941
- V. strawberry, type 2 \*  
 Braun, Alvin J., 1955  
 Fulton, R.H., 1954
- V. strawberry veinbanding  
 Frazier, Norman W., 1955
- V. strawberry vein chlorosis  
 Prentice, I.W., 1952
- V. strawberry witches' broom  
 Mellor, Frances C. and R.E. Fitzpatrick, 1952  
 Prentice, Ian W., 1948  
 Zeller, S.M., 1927
- V. tobacco necrosis  
 Fulton, J.P., 1952
- F. cuneifolia*, Nutt. ex Howell  
 V. strawberry crinkle  
 Zeller, S.M., 1933
- F. ovalis*, Rydb.  
 V. strawberry crinkle  
 Miller, P.W., 1951
- V. strawberry latent  
 Miller, P.W., 1951
- F. spp.*  
 V. rose mosaic  
 Fulton, Robert W., 1952
- V. strawberry crinkle  
 Harris, R.V. and Mary E. King, 1942  
 Massee, A.M., 1942
- V. strawberry leaf burn \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. strawberry mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- F. vesca*, L.  
 V. aster yellows  
 Fulton, J.P., 1957
- V. beet ring spot \*  
 Harrison, B.D., 1957
- V. clover witches' broom  
 Frazier, Norman W. and A.F. Posnette, 1957
- V. peach X disease  
 Slack, Derald A., 1952
- V. raspberry Scottish leaf curl  
 Lister, R.M., 1958  
 Vaughan, Edward K. and Harold W. Wiedman, 1955
- V. raspberry yellow blotch curl  
 Vaughan, Edward K. and Harold W. Wiedman, 1955
- V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958  
 Lister, R.M., 1958
- V. rose mosaic  
 Fulton, Robert W., 1952
- V. strawberry crinkle  
 Demaree, J.B. and C.P. Marcus, 1951  
 Harris, R.V. and Mary E. King, 1942  
 Massee, A.M., 1942  
 Miller, P.W., 1951, 1952

- F. vesca*, L. (cont.)
- V. strawberry crinkle
    - Prentice, I.W., 1949, 1952
    - Prentice, I.W. and Tamsyn M. Woollcombe, 1951
    - Smith, Harlan E., 1952
    - Smith, Harlan E. and J. Duain Moore, 1952
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. strawberry, isolate I, mild mottle \*
    - Rorie, Forest Gay, 1957
  - V. strawberry, isolate II \*
    - Rorie, Forest Gay, 1957
  - V. strawberry latent
    - Frazier, Norman W., 1953
    - McGrew, J.R., 1956
  - V. strawberry mild mottle \*
    - McGrew, J.R., 1956
  - V. strawberry mild yellow edge
    - Prentice, I.W., 1952
  - V. strawberry mottle
    - Demaree, J.B. and C.P. Marcus, 1951
    - Prentice, I.W., 1948, 1952
    - Scott, D.H., D.P. Ink, George M. Darrow and C.P. Marcus, 1952
    - Smith, Harlan E., 1952
    - Smith, Harlan E. and J. Duain Moore, 1952
    - Stubbs, L.L., 1957
  - V. strawberry stunt
    - Skiles, R.L. and T.H. King, 1952
  - V. strawberry, type 2 \*
    - Braun, Alvin J., 1955
    - Demaree, J.B. and C.P. Marcus, 1951
    - Fulton, R.H., 1954
    - Smith, Harlan E., 1952
    - Smith, Harlan E. and J. Duain Moore, 1952
  - V. strawberry veinbanding
    - Frazier, Norman W., 1955
  - V. strawberry vein chlorosis
    - Prentice, I.W., 1952
  - V. strawberry witches' broom
    - Prentice, I.W., 1948
  - V. tobacco necrosis
    - Frazier, Norman W., 1955
    - Fulton, J.P., 1952
- F. vesca* var. *alpina* \*
- V. apple mosaic
    - Yarwood, C.E., 1955
  - V. strawberry crinkle
    - Miller, P.W., 1951
- F. vesca* var. *americana*, Porter
- V. aster yellows
    - Frazier, Norman W. and Harold E. Thomas, 1953
- F. vesca*, subsp. *californica*, (Cham. & Schlecht.) Staudt
- V. strawberry mottle
    - Thomas, Harold E., 1949
  - V. strawberry, type 2 \*
    - Thomas, Harold E., 1949
- F. virginiana*, Dcne.
- V. strawberry leaf roll
    - Berkeley, G.H. and A.G. Plakidas, 1942
  - V. tobacco streak
    - Fulton, Robert W., 1948
- FRANSERIA Cav. 1793 (Compositae)
- F. acanthicarpa*, (Hook.) Cov.
- V. lucerne dwarf
    - Freitag, Julius H., 1951
- FRAXINUS Tourn. ex L. 1735 (Oleaceae)
- F. berlandieriana*, A. DC.
- V. ash witches' broom
    - Plakidas, A.G., 1949
- F. dipetala*, Hook. & Arn.
- V. lucerne dwarf
    - Freitag, Julius H., 1951
- F. pennsylvanica*, Marsh.
- V. tobacco ring spot
    - Wilkinson, R.E., 1952
- FREESIA Klatt 1865-66 (Iridaceae)
- F. spp.*
- V. bean yellow mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- F. spp.* (cont.)
- V. freesia mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- FRITILLARIA ((Tourn.)) L. 1735 (Liliaceae)
- F. pudica*, Spreng.
- V. cucumber mosaic
    - Brierley, Philip and Floyd F. Smith, 1944
  - V. tulip breaking
    - Brierley, Philip and Floyd F. Smith, 1944
- FUCHSIA ((Plum.)) L. 1735 (Onagraceae)
- F. magellanica*, Lam.
- V. lucerne dwarf
    - Freitag, Julius H., 1951
- FUMARIA Tourn. ex L. 1735 (Papaveraceae)
- F. officinalis*, L.
- V. anemone mosaic \*
    - Hollings, M., 1957
- GAILLARDIA Fouger. 1788 (Compositae)
- G. aristata*, Pursh
- V. aster yellows
    - Kunkel, L.O., 1926
  - V. tomato spotted wilt
    - Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
  - V. vaccinium false blossom
    - Kunkel, L.O., 1945
- G. pulchella*, Foug. var. *picta*, Gray
- V. aster yellows
    - Severin, Henry H.P. and Julius H. Freitag, 1945
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- GALINSOGA Ruiz & Pav. 1794 (Compositae)
- G. parviflora*, Cav.
- V. tobacco mosaic
    - Holmes, Francis O., 1938, 1946
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- GALIUM L. 1737 (Rubiaceae)
- G. aparine*, L.
- V. anemone mosaic \*
    - Hollings, M., 1957
- G. triflorum*, Michx.
- V. tobacco mosaic
    - Holmes, Francis O., 1938
- GAMOLEPIS Less. 1832 (Compositae)
- G. tagetes*, DC.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Holmes, Francis O., 1946
- GASTRIDIDIUM Beauv. 1812 (Gramineae)
- G. ventricosum*, (Gouan) Shinz & Thell.
- V. barley yellow dwarf
    - Oswald, John W. and Byron R. Houston, 1953
- GAURA L. 1751 (Onagraceae)
- G. lindheimeri*, Engelm. & Gray
- V. aster yellows
    - Severin, Henry H.P. and Julius H. Freitag, 1945
- GERANIUM ((Tourn.)) L. 1735 (Geraniaceae)
- G. carolinianum*, L.
- V. cucumber mosaic
    - Wellman, F.L., 1935
  - V. tobacco mosaic
    - Holmes, Francis O., 1938, 1946
- G. dissectum*, L.
- V. aster yellows
    - Frazier, Norman W. and Henry H.P. Severin, 1945
  - V. filaree red leaf
    - Frazier, Norman W., 1951
- G. molle*, L.
- V. filaree red leaf
    - Anderson, Chris W., 1952

- GESNERIA L. 1737 (Gesneriaceae)  
 G. spp.  
 V. tobacco mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- GEUM L. 1735 (Rosaceae)  
 G. chilense, Balb.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- G. spp.  
 V. tobacco streak  
 Fulton, Robert W., 1948
- GILIA Ruiz & Pav. 1794 (Polemoniaceae)  
 G. capitata, Dougl.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- G. capitata var. achilleaefolia, (Benth.) Mason \*  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- G. liniflora, Benth.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- GLADIOLUS ((Tourn.)) L. 1735 (Iridaceae)  
 G. gandavensis, Van Houtte  
 V. bean yellow mosaic  
 McWhorter, Frank P., 1949
- G. hortulanus, Bailey  
 V. aster yellows  
 Magie, R.O., Floyd F. Smith and Philip Brierley, 1952  
 Smith, Floyd F. and Philip Brierley, 1953
- V. bean yellow mosaic  
 Berkeley, G.H., 1953  
 Bridgmon, G.H., 1951  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Brierley, Philip, 1952  
 Brierley, Philip and Floyd F. Smith, 1948  
 Dossdall, Louise, 1928
- V. cucumber mosaic  
 Berkeley, G.H., 1951, 1953  
 Bridgmon, G.H., 1951  
 Brierley, Philip, 1952
- V. gladiolus \*  
 Snow, Gordon F., 1955
- V. iris bearded mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948
- V. iris mosaic  
 Brierley, Philip and Floyd F. Smith, 1948
- V. laburnum vein mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1954
- V. tobacco mosaic  
 Berkeley, G.H., 1951
- V. tobacco ring spot  
 Berkeley, G.H., 1951, 1953  
 Bridgmon, G.H., 1951  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Brierley, Philip, 1952  
 Smith, Floyd F. and Philip Brierley, 1955
- G. spp.  
 V. aster yellows  
 Smith, Floyd F. and Philip Brierley, 1948
- G. spp. (cont.)  
 V. bean yellow mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. cucumber mosaic  
 Faan, Hwei Chung and James Johnson, 1951  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- GLEDITSIA L. 1742 (Leguminosae)  
 G. triacanthos, L.  
 V. prunus B \*  
 Fulton, Robert W., 1957
- GLORIOSA L. 1735 (Liliaceae)  
 G. rothschildiana, O'Brien  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944
- GLOXINIA L'Herit. 1785 (Gesneriaceae)  
 G. spp.  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- GLYCINE L. 1737 (Leguminosae)  
 (SOJA) Moench 1794  
 (SOYA) Benth. 1838  
 G. max, (L.) Merr.  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean yellow mosaic  
 Afanasiev, M.M. and H.E. Morris, 1952  
 Conover, Robert A., 1948  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J., 1952  
 Hagedorn, D.J. and J.C. Walker, 1949, 1950, 1954  
 Pierce, W.H., 1934, 1935  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J. and H.H. Fisher, 1953
- V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950
- V. broad bean mottle  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957
- V. cowpea mosaic  
 Anderson, C.W., 1955  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949
- V. cucumber mosaic  
 Hagedorn, D.J., 1950, 1952  
 Hagedorn, D.J. and J.C. Walker, 1954
- V. kaimi clover disease \*  
 Murakishi, Harry H., 1952
- V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Pierce, W.H., 1934  
 Snyder, William C. and Saul Rich, 1942  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953
- V. pea enation mosaic  
 Chaudhuri, R. P., 1950  
 Hagedorn, D.J., 1952  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1936, 1937
- V. pea streak  
 Kim, Woon S. and D.J. Hagedorn, 1957  
 Zaumeyer, W.J., 1938
- V. pea wilt  
 Pierce, W.H., 1935
- V. red clover vein mosaic  
 Hagedorn, D.J., 1952
- V. soybean mosaic  
 Conover, Robert A., 1948  
 Gardner, Max W. and James B. Kendrick, 1921  
 Kendrick, James B. and Max W. Gardner, 1924

- G. max*, (L.) Merr. (cont.)  
 V. soybean mosaic  
 Pierce, W.H., 1935  
 V. soybean new disease \*  
 Dunleavy, John, 1957  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
 V. tobacco leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Allington, William B., 1946  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Cooper, W.E., 1949  
 Desjardins, P.R., R.L. Latterell and J.E. Mitchell, 1954  
 Dunleavy, John M., 1957  
 Kahn, Robert P., 1956  
 Kahn, Robert P. and Frances M. Latterell, 1955  
 LeBeau, F.J., 1947  
 Pierce, W.H., 1934  
 Starr, Chester K. and W.E. Cooper, 1944  
 Stubbs, M.W., 1937  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tomato aspermy  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato ring spot  
 Kahn, Robert P., 1956  
 Kahn, Robert P. and Frances M. Latterell, 1955  
 V. Wisconsin pea streak  
 Hagedorn, D.J., 1952  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954
- GNAPHALIUM** L. 1737 (Compositae)  
*G. chilense*, Spreng.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
*G. decurrens*, Ives., var. *californicum*, Gray \*  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
*G. ramosissimum*, Nutt.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- GODETIA** Spach 1835 (Onagraceae)  
*G. amoena*, G. Don  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*G. grandiflora*, Lindl.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- GOMPHRENA** L. 1737 (Amaranthaceae)  
*G. globosa*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. apple mosaic  
 Yarwood, C.E., 1955
- G. globosa*, L. (cont.)  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 Gasiorkiewicz, E.C., 1954  
 Wright, Charles M., 1951  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1955, 1957  
 Kassanis, B., 1955  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 V. iris ring spot \*  
 Travis, R.V., 1957  
 V. lettuce mosaic  
 Couch, Houston B., 1954, 1955  
 Wilkinson, R.E. and Ursula Hirsch, 1952  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Thomas, H. Rex, 1951  
 V. potato leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 Hoyman, Wm. G., 1951  
 Roberts, Daniel A., 1952  
 Thompson, A.D., 1956  
 Timian, Roland G., W.J. Hooker and C.E. Peterson, 1955  
 Wilkinson, R.E. and F.M. Blodgett, 1948  
 Wilkinson, R.E. and A. Frank Ross, 1949  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. ranunculus mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958  
 V. sweet potato mosaic  
 Elmer, O.H., 1957  
 V. tobacco etch  
 Greenleaf, W.H., 1953  
 V. tobacco mosaic  
 Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
 V. tobacco necrosis  
 Kassanis, B., 1955  
 V. tobacco ring spot  
 Berkeley, G.H., 1953  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. tomato ring spot  
 Brierley, Philip, 1956  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
*G. spp.*  
 V. tobacco ring spot  
 Travis, R.V. and Philip Brierley, 1957
- GOSSYPIUM** L. 1735 (Malvaceae)  
*G. arboreum*, L., var. *typicum*, f. *indica* \*  
 V. cotton small leaf \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*G. barbadense*, L.  
 V. cotton veinal mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- G. hirsutum, L.  
 V. cotton leaf crumple  
 Dickson, R.C., M. McD. Johnson and Edward F. Laird, 1954  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cotton Texas \*  
 Rosberg, David W., 1957  
 V. cotton veinal mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. delphinium ring spot  
 Severin, Henry H.P. and R.C. Dickson, 1942  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. tobacco streak  
 Fulton, Robert W., 1948
- G. klotzchianum, Anderss.  
 V. cotton veinal mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- G. peruvianum, Cav.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- G. peruvianum x G. barbadense, L.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- G. punctatum, Guill. & Perr.  
 V. cotton veinal mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- G. spp.  
 V. abutilon infectious variegation  
 Crandall, Bowen S., 1954
- G. trilobum, (DC.) Kearney  
 V. cotton veinal mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- G. vitifolium, Lam.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- GYNERIUM Humb. & Bonpl. 1809 (Gramineae)  
 G. sagittatum, Beauv.  
 V. (sugarcane) mosaic  
 Abbott, E.V., 1930
- GYPSOPHILA L. 1751 (Caryophyllaceae)  
 G. elegans, Bieb.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. carnation ring spot  
 Kassanis, B., 1955  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Kassanis, B., 1955
- G. paniculata, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- HAYNALDIA Kanitz 1877 (Campanulaceae)  
 H. villosa \*  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951
- HEDEOMA Pers. 1807 (Labiatae)  
 H. pulegioides, (L.) Pers.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- HEDERA Tourn. ex L. 1737 (Araliaceae)  
 H. helix, L.  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- HEDYSARUM ((Tourn.)) L. 1735 (Leguminosae)  
 H. coronarium, L.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. tobacco streak  
 Fulton, Robert W., 1948
- HELENIUM L. 1753 (Compositae)  
 H. puberulum, DC.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 H. spp.  
 V. strawberry green petal  
 Frazier, Norman W. and A.F. Posnette, 1957
- HELIANTHUS L. 1735 (Compositae)  
 H. debilis, Nutt.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 Jagger, I.C., 1918  
 H. decapetalus, L., var. multiflorus, Hort.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- HELICHRYSUM Vaill. ex L. 1737 (Compositae)  
 H. arenarium, DC.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 H. bracteatum, Andr.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. carnation mosaic  
 Gasiorkiewicz, E.D., 1954  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955
- HELIOCARPUS L. 1740 (Tiliaceae)  
 H. popayanensis, H. B. & K.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- HELIOPHILA Burm. f. ex L. 1763 (Cruciferae)  
 H. linearifolia, Burch. ex DC. Syst.  
 V. clover big vein  
 Black, L.M., 1945
- HELIOPSIS Pers. 1807 (Compositae)  
 H. helianthoides, Sweet, var. pitcheriana, Hort.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- HELIOTROPIUM ((Tourn.)) L. 1735 (Boraginaceae)  
 H. corymbosum, Ruiz. & Pav.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940

- H. corymbosum, Ruiz & Pav. (cont.)  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- H. peruvianum, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Price, W.C., 1940
- HELIPTERUM DC. 1837 (Compositae)  
 H. humboldtianum, DC.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- H. roseum, Benth.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- HEMIZONIA DC. 1836 (Compositae)  
 H. corymbosa, (DC.) Torr. & Gray  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- HERACLEUM L. 1735 (Umbelliferae)  
 H. sphondylium, L.  
 V. beet ring spot \*  
 Harrison, B.D., 1957
- HERRANIA Goudot 1844 (Sterculiaceae)  
 H. balaensis, Preuss  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- H. spp.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- HESPERIS L. 1735 (Cruciferae)  
 H. matronalis, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tobacco ring spot  
 Pound, Glenn S., 1949  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- HIBISCUS L. 1737 (Malvaceae)  
 H. abelmoschus, L.  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950
- H. arnottianus, Gray  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950
- H. cannabinus, L.  
 V. abutilon infectious variegation  
 Crandall, Bowen S., 1954  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- H. esculentus, L.  
 V. beet curly top  
 Severin, Henry H.P., 1929  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- H. esculentus, L. (cont.)  
 V. cucumber mosaic  
 Fulton, Robert W., 1941  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 Varma, P.M., 1952  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco ring spot  
 Fulton, Robert W., 1941  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1948
- H. manihot, L.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- H. palustris, L. (moscheutos, L.)  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- H. rosa-sinensis, L.  
 V. hibiscus ring spot \*  
 Jensen, D.D., 1949  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950
- H. sabdariffa, L.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- H. spp.  
 V. tobacco streak  
 Fulton, Robert W., 1948
- H. syriacus, L.  
 V. tobacco ring spot  
 Wilkinson, R.E., 1952
- H. tetraphyllus, Roxb.  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- HIERACIUM ((Tourn.)) L. 1735 (Compositae)  
 H. scabrum, Michx.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- HILDEGARDIA Schott & Endl. 1832 (Sterculiaceae)  
 H. barteri, (Mast.) Kosterm.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- HOLCUS L. 1735 (Gramineae)  
 H. halepensis, L. (Andropogon halepensis, Brot.)  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950  
 V. sugarcane mosaic  
 Lawas, Orencio M. and William L. Fernandez, 1949
- H. sorghum, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1934, 1935  
 V. sugarcane mosaic  
 Adsuar, Jose, 1950, 1954  
 Brandes, E.W. and Peter J. Klapaak, 1923
- H. sudanensis, Bailey  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- HOLODISCUS Maxim. 1879 (Rosaceae)  
 H. discolor, (Pursh) Maxim.  
 V. holodiscus witches' broom  
 Zeller, S.M., 1931
- HORDEUM ((Tourn.)) L. 1735 (Gramineae)  
 H. brachyantherum, Nevski  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- H. brevisubulatum, (Trin.) Link  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957

- H. bulbosum*, L.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- H. gussoneanum*, Parl.  
V. wheat streak mosaic  
McKinney, H.H. and Hurley Fellows, 1951
- H. hystrix*, Roth.  
V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1953
- H. jubatum*, L.  
V. barley stripe mosaic  
Slykhuis, J. T., 1952
- H. leporinum*, Link  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953  
V. ryegrass mosaic \*  
Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- H. murinum*, L.  
V. lucerne dwarf  
Freitag, Julius H., 1951  
V. wheat streak mosaic  
McKinney, H.H. and Hurley Fellows, 1951
- H. sativum*, Pers.  
V. soil-borne wheat mosaic  
McKinney, H.H., 1930
- H. spp.*  
V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1952  
V. wheat streak mosaic  
McKinney, H.H. and Hurley Fellows, 1951  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- H. vulgare*, L.  
V. barley stripe mosaic  
Afanasiev, M.M., 1956  
Eslick, R.F. and M.M. Afanasiev, 1955  
Fitzgerald, Paul J., Harland Stevens and R.G. Timian, 1957  
Hagborg, W.A.F., 1954  
McKinney, H.H., 1951, 1953, 1954, 1956  
Sill, W.H., Jr. and E.D. Hansing, 1955  
Sisler, W.W. and R.G. Timian, 1956  
Slykhuis, J. T., 1952  
Timian, R.G. and W.W. Sisler, 1955  
Wadsworth, D.F., 1949  
V. barley yellow dwarf  
Allen, Thomas C., Jr., 1956, 1957  
Allen, Thomas C., Jr. and Byron R. Houston, 1956  
Bruehl, G.W. and H.V. Toko, 1955, 1957  
Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
Oswald, John W. and T.H. Thung, 1955  
Takeshita, R.M., 1956  
Toko, H.V. and G.W. Bruehl, 1957  
Watson, Marion A. and T. Mulligan, 1957  
V. brome mosaic  
McKinney, H.H., 1944, 1953, 1956  
V. (cereal) California mosaic disease \*  
Houston, Byron R. and John W. Oswald, 1952  
V. (cereal) enanismo disease \*  
Gibler, John W., 1957  
V. corn new mosaic \*  
Finley, A.M., 1954  
V. lucerne dwarf  
Freitag, Julius H., 1951  
V. maize streak  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. oat pseudo-rosette  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. soil-borne wheat mosaic  
McKinney, H.H., 1948  
V. tobacco necrosis  
Fulton, Robert W., 1950  
V. wheat spot mosaic \*  
Slykhuis, J. T., 1956  
V. wheat streak mosaic  
Finley, A.M., 1957  
McKinney, H.H., 1949, 1956  
Slykhuis, J. T., 1952, 1954, 1955  
V. wheat striate mosaic  
Slykhuis, J. T., 1953  
Slykhuis, J. T. and Marion A. Watson, 1958
- HOYA R. Br. 1809 (Asclepiadaceae)  
*H. carnosa*, R. Br.  
V. tomato spotted wilt  
Prentice, I.W., 1952
- HUMULUS L. 1735 (Moraceae)  
*H. japonicus*, Sieb. & Zucc.  
V. beet curly top  
Freitag, Julius H. and Henry H.P. Severin, 1936
- H. lupulus*, L.  
V. hop chlorotic disease  
Salmon, E.S. and W.M. Ware, 1930, 1932, 1935  
V. hop mosaic  
Cheal, W.F., 1929  
Mackenzie, D., E.S. Salmon, W.M. Ware and R. Williams, 1929  
Salmon, E.S. and W.M. Ware, 1928, 1932  
Thrupp, T.C., 1927  
V. hop nettle head  
Blattny, C. and V. Vukolov, 1935  
Keyworth, W.G. and D.L.G. Davies, 1946  
V. hop split leaf blotch  
Keyworth, W.G., 1951
- HYACINTHUS ((Tourn.)) L. 1735 (Liliaceae)  
*H. orientalis*, L.  
V. cucumber mosaic  
Ainsworth, G.C., 1938
- HYDRANGEA Gronov. ex L. 1737 (Saxifragaceae)  
*H. macrophylla*, Ser.  
V. aster yellows  
Brierley, Philip and Floyd F. Smith, 1954  
V. hydrangea \*  
Brierley, Philip, 1954  
V. hydrangea die back \*  
Brierley, Philip and Floyd F. Smith, 1952  
V. hydrangea ring spot  
Brierley, Philip, 1957  
Brierley, Philip and Paul Lorentz, 1956, 1957  
Brierley, Philip and Floyd F. Smith, 1952  
V. tobacco ring spot no. 2  
Brierley, Philip, 1954  
V. tomato ring spot  
Brierley, Philip and Paul Lorentz, 1956  
Brierley, Philip and Floyd F. Smith, 1953
- H. paniculata*, Sieb.  
V. lucerne dwarf  
Freitag, Julius H., 1951
- HYOSCYAMUS ((Tourn.)) L. 1735 (Solanaceae)  
*H. albus*, L.  
V. lucerne mosaic  
Price, W.C., 1940  
V. tobacco necrosis  
Price, W.C., 1940  
V. tobacco ring spot  
Price, W.C., 1940
- H. niger*, L.  
V. atropa belladonna mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. cucumber mosaic  
Govier, D.A., 1957  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
V. henbane mosaic  
Hamilton, Marion A., 1932  
Watson (Hamilton), Marion A., 1937  
V. lucerne mosaic  
Price, W.C., 1940  
V. potato X  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Smith, J. Henderson, 1928  
V. potato Y  
Cockerham, George, 1943  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Larson, R.H., 1947



- H. niger*, L. (cont.)  
 V. potato Y  
 Smith, Kenneth M. and R.W.G. Dennis, 1940  
 Watson (Hamilton), Marion A., 1937  
 V. potato yellow dwarf  
 Black, L.M., 1937, 1938  
 V. raspberry Scottish leaf curl  
 Cadman, C.H., 1956  
 V. tobacco etch  
 Bawden, F.C. and B. Kassanis, 1941  
 V. tobacco mosaic  
 Allard, H.A., 1916  
 Hoggan, Isme A., 1927  
 Jarrett, Phyllis H., 1930  
 Johnson, James, 1927  
 Sheffield, F.M.L., 1931, 1936  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- HYPOCHOERIS L. 1737 (Compositae)  
*H. radicata*, L.  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950
- IBERIS Dill. ex L. 1735 (Cruciferae)  
*I. amara*, L.  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*I. gibraltarica*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*I. umbellata*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- ILYSANTHES Rafin. 1820 (Scrophulariaceae)  
*I. dubia*, Barnh.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- IMPATIENS Riv. ex L. 1735 (Balsaminaceae)  
*I. balsamina*, L.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*I. sultanii*, Hook. f. (*I. holstii*, Engler & Warb.)  
 V. cucumber mosaic  
 Adsuar, Jose, 1955  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 Zaumeyer, W.J., 1953  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- INCARVILLEA Juss. 1789 (Bignoniaceae)  
*I. delavayi*, Bur. & Franch.  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940
- I. variabilis*, Batalin  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- INDIGOFERA L. 1737 (Leguminosae)  
*I. endecaphylla*, Jacq.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*I. hirsuta*, L.  
 V. potato Y  
 Anderson, C.W. and M.K. Corbett, 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. tobacco etch  
 Anderson, C.W. and M.K. Corbett, 1957  
*I. retroflexa*, Baill.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*I. rhynchoarpa*, Welw. ex Bak.  
 V. groundnut rosette  
 Evans, A.C., 1954  
*I. spp.*  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*I. subulata*, Vahl.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*I. tettensis*, Klotzsch  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956
- IODANTHUS Torr. & Gray 1838 (Cruciferae)  
*I. pinnatifidus*, (Michx.) Steud.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. tobacco streak  
 Fulton, Robert W., 1948
- IPOMOEA L. 1735 (Convolvulaceae)  
*I. batata*, (L.) Lam.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. sweet potato A \*  
 Sheffield, F.M.L., 1957  
 V. sweet potato B, strains 1, 2, 3, 4, and 5 \*  
 Sheffield, F.M.L., 1957  
 V. sweet potato feathery mottle  
 Webb, R.E., 1954  
 Webb, R.E. and R.H. Larson, 1954  
 V. sweet potato foliage spotting disease \*  
 Holmes, Francis O., 1956  
 V. sweet potato internal cork  
 Aycock, Robert and Morris B. Hughes, 1952  
 Feazell, George D., 1953  
 Hildebrand, E.M., 1956, 1957  
 Hildebrand, E.M. and F.F. Smith, 1956  
 Martin, W.J., 1950, 1955  
 Nielsen, L.W., 1956  
 Nielsen, L.W. and L.H. Person, 1954  
 Nusbaum, C.J., 1947, 1950  
 Rankin, H.W., 1950  
 Williams, A.S., 1954  
 V. sweet potato mosaic  
 Adsuar, Jose, 1955  
 Borders, H.I. and T.J. Ratcliff, 1954  
 Elmer, O.H., 1957  
 Rosen, H.R., 1926  
*I. hederacea*, (L.) Jacq.  
 V. sweet potato internal cork  
 Hildebrand, E.M. and H.A. Borthwick, 1956  
*I. nil*, (L.) Roth  
 V. (ipomoea) mosaic \*  
 Cook, Melville T., 1931  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*I. purpurea*, (L.) Lam.  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 Wellman, F.L., 1935  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957

- I. *purpurea*, (L.) Lam. (cont.)  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957  
 V. sweet potato feathery mottle  
 Webb, R. E., 1954  
 V. sweet potato internal cork  
 Hildebrand, E. M., 1956  
 Hildebrand, E. M. and H. A. Borthwick, 1956  
 Hildebrand, E. M. and F. F. Smith, 1956  
 V. tobacco ring spot  
 Wingard, S. A., 1928  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- I. *rubra*, Murr.  
 V. sweet potato mosaic  
 Adsuar, Jose, 1955
- I. *setosa*, Ker.  
 V. beet curly top  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
 V. tobacco necrosis  
 Price, W. C., 1940  
 V. tobacco ring spot no. 2  
 Price, W. C., 1940
- I. *spp.*  
 V. tobacco necrosis  
 Price, W. C., 1940
- I. *tricolor*, Cav.  
 V. sweet potato foliage spotting disease \*  
 Holmes, Francis O., 1956  
 V. tobacco mosaic  
 Grant, T. J., 1934  
 Holmes, Francis O., 1946
- IRIS Tourn. ex L. 1735 (Iridaceae)  
 I. *aurea*, Lindl.  
 V. *iris spuria* mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948  
 I. *filifolia*, Boiss.  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 I. *germanica*, L.  
 V. tobacco ring spot  
 Travis, R. V. and Philip Brierley, 1957  
 I. *ricardi*, Hort. \*  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 I. *spuria*, L.  
 V. *iris spuria* mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948  
 I. *tingitana*, Boiss. & Reut.  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 I. *unguicularis*, Poir., var. *alba*, Hort.  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 I. *xiphioides*, Ehrh.  
 V. *iris* mosaic  
 Brierley, P. and F. P. McWhorter, 1934  
 I. *xiphium*, L.  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 I. *xiphium praecox*, Hort. \*  
 V. *iris* mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936
- ISATIS Tourn. ex L. 1735 (Cruciferae)  
 I. *tinctoria*, L.  
 V. cabbage black ring spot  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. cauliflower mosaic  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- ISCHAEMUM L. 1742 (Gramineae)  
 I. *rogusum*, Salisb.  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- IXIA L. 1737 (Iridaceae)  
 I. *spp.*  
 V. *ixia* mosaic  
 Smith, Floyd F. and Philip Brierley, 1944
- JATROPHA L. 1735 (Euphorbiaceae)  
 J. *gossypifolia*, L.  
 V. *jatropha* mosaic \*  
 Bird, Julio, 1957  
 J. *multifida*, L.  
 V. *jatropha* mosaic \*  
 Bird, Julio, 1957
- JUGLANS L. 1737 (Juglandaceae)  
 J. *cinerea*, L.  
 V. walnut brooming disease \*  
 Hutchins, Lee M. and Horace V. Wester, 1947  
 J. *cordiformis*, Maxim., var. *ailantifolia*, (Carr.) Rend.  
 V. walnut brooming disease \*  
 Hutchins, Lee M. and Horace V. Wester, 1947  
 J. *nigra*, L.  
 V. walnut brooming disease \*  
 Hutchins, Lee M. and Horace V. Wester, 1947
- KALANCHOE Adans. 1763 (Crassulaceae)  
 K. *daigremontiana*, Hamet. & Perrier  
 V. potato yellow dwarf  
 Hansing, E. D., 1942  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- KERRIA DC. 1817 (Rosaceae)  
 K. *japonica*, (L.) DC.  
 V. peach yellow bud mosaic  
 Thomas, H. Earl and T. E. Rawlins, 1939
- KICKXIA Blume 1828 (Apocynaceae)  
 K. *spuria*, (L.) Dum.  
 V. raspberry yellow dwarf \*  
 Harrison, B. D., 1958
- KOCHIA Roth 1801 (Chenopodiaceae)  
 K. *childsii*, Hort. ex Mollers  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 K. *scoparia*, (L.) Schrad.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 K. *scoparia* var. *trichophylla*, Bailey  
 V. beet curly top  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
 Severin, Henry H. P. and Julius H. Freitag, 1934  
 V. beet mosaic  
 Severin, Henry H. P. and Roger M. Drake, 1948  
 V. clover big vein  
 Black, L. M., 1945
- KOELERIA Pers. 1805 (Gramineae)  
 K. *cristata*, (L.) Pers.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- LABURNUM L. 1735 (Leguminosae)  
 L. *alpinum*, J. Presl  
 V. laburnum vein mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1954  
 L. *anagyroides*, Med.  
 V. laburnum infectious variegation  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 L. *vosii* \*  
 V. laburnum infectious variegation  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 L. *vulgare*, Bercht. & Presl  
 V. laburnum infectious variegation  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 L. *watereri*, Dipp.  
 V. laburnum vein mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1954
- LACTUCA ((Tourn.)) L. 1735 (Compositae)  
 L. *altaica*, Fisch. & Mey.  
 V. aster yellows  
 Tompson, Ross C., 1944  
 L. *canadensis*, L.  
 V. aster yellows  
 Tompson, Ross C., 1944

- L. floridana, (L.) Gaertn.  
V. aster yellows  
Tompson, Ross C., 1944
- L. graminifolia, Michx.  
V. aster yellows  
Tompson, Ross C., 1944
- L. indica, L.  
V. aster yellows  
Tompson, Ross C., 1944
- L. laciniata, Roth  
V. aster yellows  
Tompson, Ross C., 1944
- L. muralis, (L.) Gaertn.  
V. anemone mosaic \*  
Hollings, M., 1957  
V. aster yellows  
Tompson, Ross C., 1944
- L. perennis, L.  
V. aster yellows  
Tompson, Ross C., 1944
- L. raddeana, Maxim.  
V. aster yellows  
Tompson, Ross C., 1944
- L. saligna, L.  
V. aster yellows  
Tompson, Ross C., 1944
- L. sativa, L.  
V. aster yellows  
Brierley, Philip and Floyd F. Smith, 1944  
Kunkel, L.O., 1926  
Lee, P.E. and A.G. Robinson, 1958  
Linn, M.B., 1940  
Raymer, W.B. and Clark R. Amen, 1954  
Severin, H.H.P., 1928, 1929  
Severin, Henry H.P. and Julius H. Freitag, 1945  
Smith, Floyd F. and Philip Brierley, 1951  
Tompson, Ross C., 1944
- V. beet curly top  
Giddings, N.J., 1944
- V. cucumber mosaic  
Anderson, C.W., 1955  
Hollings, M., 1955  
Kassanis, B., 1947  
Price, W.C., 1940
- V. cucumber western mosaic \*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- V. dandelion yellow mosaic  
Doncaster, J.P. and B. Kassanis, 1946, 1947
- V. lettuce big vein  
Allen, M.W., 1948  
Doolittle, S.P. and Ross C. Tompson, 1945  
Pryor, Dean E., 1946  
Thompson, Ross C., S.P. Doolittle and Floyd F. Smith, 1944
- V. lettuce mosaic  
Ainsworth, G.C. and L. Ogilvie, 1939  
Broadbent, L., T.W. Tinsley, W. Buddin and E. T. Roberts, 1951  
Couch, Houston B., 1954, 1955  
Doncaster, J.P. and B. Kassanis, 1946  
Grogan, R.G., J.E. Welch and Roy Bardin, 1952  
Jagger, Ivan C., 1920-21  
Jones, Leon K., 1944  
Kassanis, B., 1947  
Newhall, A.G., 1923  
Selman, Ireson W., 1945  
Sylvester, Edward S., 1954, 1955
- V. lucerne witches' broom  
Helms, Katie, 1957
- V. prunus A \*  
Fulton, Robert W., 1957
- V. prunus B \*  
Fulton, Robert W., 1957
- V. tobacco necrosis  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco ring spot  
Grogan, R.G., Roy Bardin and W.C. Schnathorst, 1954  
Grogan, R.G. and W.C. Schnathorst, 1955
- V. tobacco streak  
Fulton, Robert W., 1948
- V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955
- L. sativa, L. (cont.)  
V. tomato aspermy  
Hollings, M., 1955  
V. tomato big bud  
Helms, Katie, 1957  
V. tomato spotted wilt  
Gardner, M.W. and O.C. Whipple, 1934  
Milbrath, J.A., 1939  
Sakimura, K., 1940  
Tompkins, C.M. and M.W. Gardner, 1934
- L. sativa var. capitata, L.  
V. lettuce mosaic  
Ainsworth, G.C., 1940  
Ainsworth, G.C. and L. Ogilvie, 1939  
V. tobacco ring spot  
Wingard, S.A., 1928  
V. tomato spotted wilt  
Ainsworth, G.C., 1940  
Snyder, W.C. and H. Rex Thomas, 1936  
V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958  
V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
- L. sativa var. longifolia, Lam.  
V. aster yellows  
Severin, Henry H.P. and Julius H. Freitag, 1945  
V. tomato spotted wilt  
Snyder, W.C. and H. Rex Thomas, 1936  
Tompkins, C.M. and M.W. Gardner, 1934
- L. sativa var. romana, Hort.  
V. lettuce mosaic  
Ainsworth, G.C. and L. Ogilvie, 1939
- L. scariola, L.  
V. cucumber mosaic  
Burnett, G., 1934  
V. lucerne dwarf  
Freitag, Julius H., 1951  
V. tobacco ring spot  
Wingard, S.A., 1928  
V. tomato spotted wilt  
Milbrath, J.A., 1939
- L. scariola var. integrata, Gren. & Godr.  
V. aster yellows  
Frazier, Norman W. and Henry H.P. Severin, 1945
- L. serriola, L.  
V. aster yellows  
Tompson, Ross C., 1944  
V. dandelion yellow mosaic  
Kassanis, B., 1947  
V. lettuce mosaic  
Grogan, R.G., J.E. Welch and Roy Bardin, 1952  
Kassanis, B., 1947  
V. tobacco ring spot  
Grogan, R.G. and W.C. Schnathorst, 1955
- L. spicata, (Lam.) Hitchc.  
V. aster yellows  
Tompson, Ross C., 1944
- L. squarrosa, (Thumb.) Miq.  
V. aster yellows  
Tompson, Ross C., 1944
- L. virosa, Rydb.  
V. aster yellows  
Tompson, Ross C., 1944  
V. dandelion yellow mosaic  
Kassanis, B., 1947  
V. lettuce mosaic  
Kassanis, B., 1947  
V. peach yellow bud mosaic  
Karle, Harry P., 1957
- LAELIA Lindl. 1831 (Orchidaceae)  
L. anceps, Lindl.  
V. orchid (cymbidium) mosaic  
Jensen, D.D. and A.H. Gold, 1955  
V. orchid (laelia anceps) \*  
Jensen, D.D. and A.H. Gold, 1952
- LAELIOCATTLEYA X, Rolfe 1887 (Orchidaceae)  
L. lustre plumosa \*  
V. orchid (cymbidium) mosaic  
Jensen, D.D. and A.H. Gold, 1955

- L. pasadena* \*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D. and A.H. Gold, 1955
- L. proca* \*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D. and A.H. Gold, 1955
- L. sargon* \*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D. and A.H. Gold, 1955
- L. shoshone* \*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D. and A.H. Gold, 1955
- LAGENARIA Ser. 1825 (Cucurbitaceae)
- L. siceraria* (Mol.) Standl. (*L. leucantha*, Rusby)  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- V. cucumber green mottle mosaic*  
 Azad, R.N., 1956  
 Vasudeva, R.S. and T.K. Nariani, 1952  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- V. cucurbit mosaic* \*  
 Doolittle, S.P. and M.N. Walker, 1925
- V. muskmelon mosaic*  
 Anderson, C.W., 1954
- V. prunus B* \*  
 Fulton, Robert W., 1957
- V. squash mosaic*  
 Freitag, Julius H., 1956
- V. tobacco ring spot*  
 Wingard, S.A., 1928
- V. watermelon mosaic*  
 Anderson, C.W., 1954
- L. vulgaris*, Ser.
- V. cucumber mosaic*  
 Jagger, I.C., 1918  
 Vasudeva, R. Sahai and T.B. Lal, 1943
- V. cucurbit mosaic* \*  
 Doolittle, S.P. and M.N. Walker, 1925
- LAMIUM ((Tourn.)) *L.* 1735 (Labiatae)
- L. amplexicaule*, *L.*
- V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- V. tobacco etch*  
 Holmes, Francis O., 1946
- V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946
- L. hybridum*, Vill.
- V. potato X*  
 Larson, R.H., 1947
- L. purpureum*, *L.*
- V. potato X*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- LAPSANA *L.* 1737 (Compositae)
- L. communis*, *L.*
- V. tomato black ring*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- LATHYRUS ((Tourn.)) *L.* 1735 (Leguminosae)
- L. cicera*, *L.*
- V. lucerne dwarf*  
 Freitag, Julius H., 1951
- V. pea enation mosaic*  
 Hagedorn, D.J., 1957
- L. clymenum*, *L.*
- V. lucerne dwarf*  
 Freitag, Julius H., 1951
- L. hirsutus*, *L.*
- V. bean yellow mosaic*  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954
- V. pea enation mosaic*  
 Johnson, Folke and Leon K. Jones, 1937  
 McEwen, F.L. and W.T. Schroeder, 1956
- V. pea mosaic*  
 Hagedorn, D.J., 1948
- V. pea streak*  
 Hagedorn, D.J., 1948
- V. red clover vein mosaic*  
 Hagedorn, D.J. and J.C. Walker, 1954
- L. hirsutus*, *L.* (cont.)
- V. Wisconsin pea streak*  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954
- V. Wisconsin pea stunt*  
 Hagedorn, D.J. and J.C. Walker, 1949
- L. latifolius*, *L.*
- V. lucerne witches' broom*  
 Klostermeyer, E.C. and J.D. Menzies, 1951
- V. pea mottle*  
 Johnson, Folke and Leon K. Jones, 1937
- L. odoratus*, *L.*
- V. anemone brown ring* \*  
 Hollings, M., 1958
- V. bean yellow mosaic*  
 Ainsworth, G.C., 1940  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935
- V. beet curly top*  
 Giddings, N.J., 1944
- V. broad bean mottle*  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
 Yu, T.F., 1939
- V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957
- V. cucumber mosaic*  
 Ainsworth, G.C., 1940  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953
- V. lettuce mosaic*  
 Ainsworth, G.C., 1940  
 Ainsworth, G.C. and L. Ogilvie, 1939
- V. lucerne mosaic*  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1949  
 Snyder, William C. and Saul Rich, 1942  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935
- V. pea enation mosaic*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Johnson, Folke and Leon K. Jones, 1937  
 Osborn, H.T., 1938  
 Simons, John N., 1954  
 Stubbs, M.W., 1936, 1937
- V. pea mosaic*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Doolittle, S.P. and F.R. Jones, 1925  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Murphy, D.M. and W.H. Pierce, 1937  
 Osborn, H.T., 1934, 1935  
 Stubbs, M.W., 1936, 1937
- V. pea mottle*  
 Johnson, Folke, 1942  
 Johnson, Folke and Leon K. Jones, 1937
- V. pea wilt*  
 Johnson, Folke, 1942
- V. pea yellow mosaic* \*  
 Ainsworth, G.C., 1940
- V. red clover mosaic* \*  
 Doolittle, S.P. and F.R. Jones, 1925  
 Zaumeyer, W.J. and B.L. Wade, 1935
- V. red clover vein mosaic*  
 Hagedorn, D.J. and E.W. Hanson, 1951  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 Osborn, H.T., 1937  
 Roberts, D.A., 1957
- V. squash mosaic*  
 Freitag, Julius H., 1956
- V. subterranean clover mosaic*  
 Aitken, Y. and B.J. Grieve, 1943
- V. sweet pea mosaic* \*  
 Zaumeyer, W.J. and B.L. Wade, 1935
- V. tobacco necrosis*  
 Price, W.C., 1940
- V. tobacco ring spot*  
 Stubbs, M.W., 1937
- V. tomato spotted wilt*  
 Ainsworth, G.C., 1940  
 Snyder, W.C. and H. Rex Thomas, 1936
- V. Wisconsin pea streak*  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954

- L. pusillus*, Ell.  
V. bean leaf wilt  
Johnson, James, 1942
- L. sativus*, L.  
V. lucerne dwarf  
Freitag, Julius H., 1951  
V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
- L. sylvestris*, L.  
V. (legume) little leaf disease \*  
Hutton, E.M. and N.E. Grylls, 1956
- L. tingitanus*, L.  
V. pea enation mosaic  
Hagedorn, D.J., 1957
- LAUNEA Endl. 1841 (Compositae)
- L. asplenifolia*, Hook. f.  
V. tobacco leaf curl  
Pruthi, Hem Singh and C.K. Samuel, 1941
- LAVANDULA Tourn. ex L. 1740 (Labiatae)
- L. officinalis*, L.  
V. aster yellows  
Kunkel, L.O., 1926
- LAVATERA L. 1737 (Malvaceae)
- L. assurgentiflora*, Kell.  
V. malva yellow vein mosaic \*  
Costa, A.S. and James E. Duffus, 1957
- L. trimestris*, L.  
V. anemone mosaic \*  
Hollings, M., 1957  
V. beet curly top  
Freitag, Julius H. and Henry H.P. Severin, 1936  
V. cucumber mosaic  
Price, W.C., 1940  
V. lovage mosaic  
Smith, Kenneth M. and Roy Markham, 1944  
V. lucerne mosaic  
Price, W.C., 1940  
V. tobacco necrosis  
Price, W.C., 1940  
V. tobacco ring spot  
Price, W.C., 1940
- LAYIA Hook. & Arn. 1833 (Compositae)
- L. elegans*, Torr. & Gray  
V. tomato spotted wilt  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- LENS ((Tourn.)) L. 1735 (Leguminosae)
- L. culinaris*, Medik.  
V. pea mottle  
Johnson, F. and L.K. Jones, 1936
- L. esculenta*, Moench  
V. bean yellow mosaic  
Zaunmeyer, W.J. and B.L. Wade, 1935  
V. lucerne mosaic  
Zaunmeyer, W.J., 1938  
V. pea mottle  
Johnson, Folke, 1942  
Johnson, Folke and Leon K. Jones, 1937  
V. pea streak  
Zaunmeyer, W.J., 1938  
V. pea wilt  
Johnson, Folke, 1942  
V. red clover mosaic \*  
Zaunmeyer, W.J. and B.L. Wade, 1935
- LEONURUS L. 1735 (Labiatae)
- L. cardiaca*, L.  
V. cucumber mosaic  
Faan, Hwei-Chung and James Johnson, 1951
- LEPIDIDIUM L. 1735 (Cruciferae)
- L. campestre*, (L.) R. Br.  
V. cabbage black ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. cauliflower mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. clover big vein  
Black, L.M., 1945
- L. campestre*, (L.) R. Br.  
V. tobacco mosaic  
Holmes, Francis O., 1938  
V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958  
V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958  
V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
- L. lasiocarpum*, Nutt. ex Torr. & Gray  
V. beet curly top  
Giddings, N.J., 1944
- L. nitidum*, Nutt. ex Torr. & Gray  
V. beet curly top  
Giddings, N.J., 1938, 1944  
Lackey, C.F., 1937  
Severin, Henry H.P., 1934
- L. ruderales*, L.  
V. tobacco mosaic  
Holmes, Francis O., 1938
- L. sativum*, L.  
V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941  
V. cauliflower mosaic  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. turnip mosaic  
Berkeley, G.H. and M. Weintraub, 1952  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- L. virginicum*, L.  
V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941  
V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. clover big vein  
Black, L.M., 1945  
V. turnip mosaic  
Dale, W.T., 1948  
Pound, Glenn S., 1948  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- LEPTOSYNE DC. 1836 (Compositae)
- L. maritima*, (Hook. f.) A. Gray  
V. tobacco mosaic  
Holmes, Francis O., 1946
- LESPEDEZA Michx. 1803 (Leguminosae)
- L. formosa*, Koehne  
V. laburnum infectious variegation  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. striata*, (Thunb.) Hook. & Arn.  
V. bean common mosaic  
Pierce, W.H., 1934  
V. bean yellow mosaic  
Pierce, W.H., 1934  
V. lucerne mosaic  
Zaunmeyer, W.J., 1938
- LIATRIS Schreb. 1791 (Compositae)
- L. pycnostachya*, Michx.  
V. chrysanthemum stunt  
Brierley, Philip, 1953
- L. spicata*, (L.) Willd.  
V. chrysanthemum stunt  
Brierley, Philip, 1950  
Keller, John R., 1953
- LIGUSTICUM L. 1737 (Umbelliferae)
- L. scoticum*, L.  
V. lovage mosaic  
Smith, Kenneth M. and Roy Markham, 1944
- LIGUSTRUM ((Tourn.)) L. 1735 (Oleaceae)
- L. obtusifolium*, Sieb. & Zucc., var. *regelianum*  
V. lilac witches' broom (Koehne) Rehd.  
Lorentz, Paul and Philip Brierley, 1953
- L. spp.*  
V. cucumber mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- LILIUM Tourn. ex L. 1737 (Liliaceae)
- L. amabile luteum \*  
V. tulip breaking  
Brierley, Philip, 1940
- L. auratum, Lindl.  
V. cucumber mosaic  
Brierley, Philip, 1940  
Guterman, C.E.F., 1928  
Wellman, F.L., 1935  
V. tulip breaking  
Brierley, Philip, 1940
- L. batemaniae, (Hort.) Wallace  
V. lily rosette  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. brownii, Poit.  
V. cucumber mosaic  
Brierley, Philip, 1940
- L. brownii var. leucanthemum, Hort.  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- L. canadense, L.  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. candidum, L.  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- L. cernuum, Kom.  
V. tulip breaking  
Brierley, Philip, 1940
- L. chalcedonicum, L.  
V. tulip breaking  
Brierley, Philip, 1940
- L. croceum, Chaix  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. dauricum, Ker-Gawl.  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. dauricum var. luteum, Hort.  
V. tulip breaking  
Brierley, Philip, 1940
- L. davidi, Duch.  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945
- L. davidi var. willmottiae, Cotton & Grove \*  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. davmottiae \*  
V. tulip breaking  
Brierley, Philip, 1940
- L. elegans, Thunb.  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- L. formosanum, (Baker) Wallace or Stapf. \*  
V. cucumber mosaic  
Brierley, Philip, 1939  
Brierley, Philip and S.P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. lily symptomless  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1939, 1940  
Brierley, Philip and S.P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1948
- L. giganteum, Wall.  
V. tulip breaking  
Brierley, Philip, 1940
- L. harrisi (L. longiflorum var. eximium, Nichols), Carr.  
V. cucumber mosaic  
Ainsworth, G.C., 1938  
Ogilvie, L. and C.E.F. Guterman, 1929  
V. lily rosette  
Ogilvie, Lawrence, 1928
- L. henryi, Baker  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip, 1940
- L. henryi x L. myriophyllum, Hort., var. superbum  
V. lily color adding \*  
McWhorter, Frank P., 1956  
V. lily color removing \*  
McWhorter, Frank P., 1956
- L. longiflorum, Thunb.  
V. celery mosaic  
Price, W.C., 1937  
V. cucumber mosaic  
Brierley, Philip, 1939  
Brierley, Philip and S.P. Doolittle, 1940  
McWhorter, F.P. and H.H. Millsap, 1954  
Porter, Clark A., 1954  
Price, W.C., 1937  
Smith, Floyd F. and Philip Brierley, 1948  
Wellman, F.L., 1935  
V. (cucumber) O.S.C. isolate 606 \*  
Porter, Clark A. and Frank P. McWhorter, 1951  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1944, 1945, 1954  
Smith, Floyd F. and Philip Brierley, 1948  
V. lily symptomless  
Brierley, Philip, 1940  
Brierley, Philip and S.P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
Porter, Clark A., 1954  
V. tobacco ring spot  
Travis, R.V. and Philip Brierley, 1957  
V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
V. tulip breaking  
Brierley, Philip, 1939  
Brierley, Philip and S.P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1948
- L. longiflorum var. formosum, Hort.  
V. cucumber mosaic  
Ainsworth, G.C., 1938
- L. longiflorum var. takesima, Duchartie  
V. lily rosette  
Ogilvie, Lawrence, 1928
- L. monadelphum, Marsh & Bieb.  
V. cucumber mosaic  
Brierley, Philip, 1940
- L. myriophyllum, Hort., var. superbum, (Baker)  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip, 1940
- L. princeps, E.H. Wilson  
V. tulip breaking  
Brierley, Philip, 1940
- L. pumilum, DC.  
V. tulip breaking  
Brierley, Philip, 1940
- L. regale, Wilson  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. lily ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
V. lily rosette  
Brierley, Philip and Floyd F. Smith, 1945  
V. tulip breaking  
Brierley, Philip, 1940
- L. sargentiae, Wilson  
V. cucumber mosaic  
Brierley, Philip, 1940

- L. sargentiae*, Wilson  
*V. lily rosette*  
 Brierley, Philip and Floyd F. Smith, 1945  
*V. tulip breaking*  
 Brierley, Philip, 1940
- L. speciosum*, Thunb.  
*V. cucumber mosaic*  
 Brierley, Philip, 1940  
 Brierley, Philip and S.P. Doolittle, 1940  
*V. lily rosette*  
 Brierley, Philip and Floyd F. Smith, 1945  
*V. tulip breaking*  
 Brierley, Philip, 1940
- L. speciosum* var. *rubrum*, Hort.  
*V. cucumber mosaic*  
 McWhorter, F.P. and H.H. Millsap, 1954
- L. spp.*  
*V. cucumber mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. superbum*, L.  
*V. cucumber mosaic*  
 Brierley, Philip, 1940  
*V. tulip breaking*  
 Brierley, Philip, 1940  
 Brierley, Philip and Floyd F. Smith, 1944
- L. testaceum*, Lindl.  
*V. tulip breaking*  
 Brierley, Philip, 1940
- L. tigrinum*, Ker-Gawl.  
*V. cucumber mosaic*  
 Brierley, Philip, 1940  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily ring spot*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tulip breaking*  
 Brierley, Philip, 1940  
 Brierley, Philip and Floyd F. Smith, 1944
- L. umbellatum*, Hort.  
*V. cucumber mosaic*  
 Brierley, Philip, 1940  
*V. lily rosette*  
 Brierley, Philip and Floyd F. Smith, 1945  
*V. tulip breaking*  
 Brierley, Philip, 1940  
 Brierley, Philip and Floyd F. Smith, 1944
- L. wallacei*, Wallace  
*V. cucumber mosaic*  
 Brierley, Philip, 1940  
*V. tulip breaking*  
 Brierley, Philip, 1940
- LIMONIUM Tourn. ex Mill. 1752 (Plumbaginaceae)  
*L. bonduelli*, (Lest.) Kuntze  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- L. sinuatum*, (L.) Mill.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940
- LINARIA Tourn. ex Mill. 1752 (Scrophulariaceae)  
*L. bipartita*, Willd.  
*V. aster yellows*  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- L. canadensis*, (L.) Dumort.  
*V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- L. cymbalaria*, (L.) Mill.  
*V. tobacco mosaic*  
 Grant, T.J., 1934
- L. macedonica*, Griseb.  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco necrosis*  
 Price, W.C., 1940
- L. macedonica*, Griseb. (cont.)  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot* no. 2  
 Price, W.C., 1940
- L. maroccana*, Hook. f.  
*V. clover big vein*  
 Black, L.M., 1945  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- L. vulgaris*, Mill.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946
- LINUM Tourn. ex L. 1735 (Linaceae)  
*L. flavum*, L.  
*V. beet curly top*  
 Giddings, N.J., 1947, 1948
- L. grandiflorum*, Desf.  
*V. clover big vein*  
 Black, L.M., 1945
- L. grandiflorum* var. *rubrum*, Hort. \*  
*V. beet curly top*  
 Giddings, N.J., 1947, 1948
- L. lewisii*, Pursh  
*V. beet curly top*  
 Bennett, C.W. and A.S. Costa, 1949  
 Giddings, N.J., 1947, 1948
- L. perenne*, L.  
*V. beet curly top*  
 Giddings, N.J., 1947, 1948
- L. usitatissimum*, L.  
*V. aster yellows*  
 Severin, Henry H.P. and Byron R. Houston, 1945  
*V. beet curly top*  
 Atkins, I.M., M.C. Futrell and O.G. Merkle, 1957  
 Bennett, C.W. and A.S. Costa, 1949  
 Giddings, N.J., 1948  
 Severin, Henry H.P., 1929  
 Severin, Henry H.P. and Byron R. Houston, 1945
- LOBELIA Plum. ex L. 1737 (Lobeliaceae)  
*L. cardinalis*, L.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- L. erinus*, L.  
*V. clover big vein*  
 Black, L.M., 1945  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tomato aspermy*  
 Hollings, M., 1955
- L. erinus* var. *speciosa* \*  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- L. gracilis*, Andr.  
*V. cucumber mosaic*  
 Jagger, I.C., 1918  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- L. inflata*, L.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946
- L. spp.*  
*V. tomato spotted wilt*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. tenuior*, R. Br.  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940

- L. tenuior*, R. Br. (cont.)  
*V. tobacco ring spot*  
 Price, W. C., 1940
- LOBULARIA Desv. 1814 (Cruciferae)  
*L. maritima*, (L.) Desv.  
*V. cucumber mosaic*  
 Pound, Glenn S. and J.C. Walker, 1948  
 Price, W. C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco ring spot*  
 Price, W. C., 1940  
*V. tobacco ring spot no. 2*  
 Hildebrand, E.M., 1942  
 Price, W. C., 1940  
*V. turnip mosaic*  
 Pound, Glenn S., 1948
- LOLIUM L. 1735 (Gramineae)  
*L. multiflorum*, Lam.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951  
*V. ryegrass mosaic \**  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957  
*V. wheat striate mosaic*  
 Slykhuis, John T. and Marion A. Watson, 1958
- L. perenne*, L.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Watson, Marion A. and T. Mulligan, 1957  
*V. ryegrass mosaic \**  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957  
*V. wheat striate mosaic*  
 Slykhuis, John T. and Marion A. Watson, 1958
- L. remotum*, Schrank  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
*V. ryegrass mosaic \**  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- L. subulatum*, Vis.  
*V. maize streak*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. temulentum*, L.  
*V. barley yellow dwarf*  
 Bruehl, G.W. and H.V. Toko, 1957  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951  
*V. ryegrass mosaic \**  
 Bruehl, G.W., H.V. Toko and H.H. McKinney, 1957
- LONICERA L. 1737 (Caprifoliaceae)  
*L. brachypoda* var. *foliis aureo-reticulatis*, Hort. \*  
*V. (honeysuckle) mottle \**  
 Corp, V.H., 1949
- L. japonica*, Thunb.  
*V. (honeysuckle) mottle \**  
 Corp, V.H., 1949  
*V. lucerne dwarf*  
 Freitag, Julius H., 1951
- LOTONONIS Eckl. & Zeyh. 1836 (Leguminosae)  
*L. bainesii*, R.T. Bak.  
*V. (legume) little leaf disease \**  
 Hutton, E.M. and N.E. Grylls, 1956
- LOTUS ((Tourn.)) L. 1735 (Leguminosae)  
*L. americanus*, (Nutt.) Bisch.  
*V. beet curly top*  
 Severin, Henry H.P., 1934
- L. corniculatus*, L.  
*V. lucerne witches' broom*  
 Klostermeyer, E.C. and J.D. Menzies, 1951
- L. salsuginosus*, Greene  
*V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- L. strigosus*, Greene  
*V. beet curly top*  
 Severin, Henry H.P., 1934
- LUFFA ((Tourn.)) L. 1735 (Cucurbitaceae)  
*L. acutangula*, Roxb.  
*V. cucumber green mottle mosaic*  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
*V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950  
*V. cucurbit mosaic \**  
 Doolittle, S.P. and M.N. Walker, 1925
- L. aegyptiaca*, Mill. (*L. cylindrica*, Roem.)  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cucurbit mosaic \**  
 Doolittle, S.P. and M.N. Walker, 1925  
*V. muskmelon mosaic*  
 Anderson, C.W., 1954  
*V. tobacco ring spot*  
 Wingard, S.A., 1928  
*V. watermelon mosaic*  
 Anderson, C.W., 1954
- L. spp.*  
*V. cucumber mosaic*  
 Jagger, I.C., 1918
- LUNARIA Tourn. ex L. 1735 (Cruciferae)  
*L. annua*, L.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cabbage black ring spot*  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
*V. cauliflower mosaic*  
 Tompkins, C.M., 1937  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. turnip crinkle*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip mosaic*  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*V. turnip rosette \**  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip yellow mosaic*  
 Broadbent, L. and G.D. Heathcote, 1958
- LUPINUS ((Tourn.)) L. 1735 (Leguminosae)  
*L. albus*, L.  
*V. alsike clover mosaic*  
 Zaumeyer, W.J., 1940  
*V. bean yellow mosaic*  
 Pierce, W.H., 1934  
 Zaumeyer, W.J., 1940  
*V. lucerne mosaic*  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
*V. pea enation mosaic*  
 Hagedorn, D.J., 1957  
*V. pea mosaic*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Murphy, D.M. and W.H. Pierce, 1937  
 Pierce, W.H., 1937  
 Stubbs, M.W., 1936, 1937  
*V. pea mottle*  
 Johnson, Folke, 1942  
*V. pea wilt*  
 Johnson, Folke, 1942  
*V. tobacco ring spot*  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 LeBeau, F.J., 1947  
 Pierce, W.H., 1934  
 Stubbs, M.W., 1937  
*V. tobacco streak*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*V. tomato spotted wilt*  
 Gardner, M.W. and O.C. Whipple, 1934
- L. angustifolius*, L.  
*V. alsike clover mosaic*  
 Zaumeyer, W.J., 1940  
*V. bean yellow mosaic*  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954



- L. angustifolius*, L. (cont.)  
 V. bean yellow mosaic  
 Zaumeyer, W.J., 1940  
 V. cucumber mosaic  
 Whipple, O.C. and J.C. Walker, 1941  
 V. lupine disease \*  
 Weimer, J.L., 1950  
 V. pea enation mosaic  
 Hagedorn, D.J., 1957  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. red clover vein mosaic  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- L. densiflorus*, Benth.  
 V. bean yellow mosaic  
 Hungerford, C.W. and Irvin G. Hillyer, 1954  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- L. hartwegii*, Lindl.  
 V. cucumber mosaic  
 Whipple, O.C. and J.C. Walker, 1941  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- L. hirsutus*, L.  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- L. leucophyllus*, Dougl. ex Lindl.  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. luteus*, L.  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 V. pea mosaic  
 Steveninck, R.F.M. Van, 1957  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- L. nanus*, Dougl.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- L. varius*, L.  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- LYCHNIS ((Tourn.) L. 1735 (Caryophyllaceae)  
*L. alba*, Mill.  
 V. carnation ring spot  
 Kassanis, B., 1955  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Faan, Hwei-Chung and James Johnson, 1951  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Kassanis, B., 1955  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948
- L. chalconica*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- L. coeli-rosa*, (L.) Desr.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- L. coronaria*, (L.) Desr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- L. haageana*, Lem.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- L. viscaria*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- LYCIUM L. 1735 (Solanaceae)  
*L. barbarum*, L.  
 V. potato A  
 MacLachlan, D.S. and R.H. Larson, 1953  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato X  
 Dennis, R.W.G., 1939  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Smith, Kenneth M. and R.W.G. Dennis, 1940
- L. chinense*, Mill.  
 V. potato Y  
 Ross, A. Frank, 1948  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- L. ferocissimum*, Miers  
 V. tobacco mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- L. halimifolium*, Mill.  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 V. potato A  
 MacLachlan, D.S. and R.H. Larson, 1953  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato Y  
 Hutton, E.M. and J.W. Peak, 1952  
 Larson, R.H. and J.F. Darby, 1951  
 Ross, A. Frank, 1948  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- L. rhombifolium*, Dipp.  
 V. potato A  
 MacLachlan, D.S. and R.H. Larson, 1953  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Hutton, E.M. and J.W. Peak, 1952  
 Larson, R.H. and J.F. Darby, 1951
- LYCOPERSICON Tourn. ex Rupp. 1745 (Solanaceae)  
 (LYCOPERSICUM) Hill 1765  
*L. chilense*, Dun.  
 V. tobacco mosaic  
 Holmes, Francis O., 1943, 1946
- L. esculentum*, Mill. (Solanum lycopersicum, L.)  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. apple mosaic  
 Yarwood, C.E., 1955  
 Yarwood, C.E. and H.E. Thomas, 1954  
 V. asclepias yellows \*  
 Kunkel, L.O., 1950  
 V. aster ring spot  
 Anderson, C.W., 1954  
 V. aster yellows  
 Kunkel, L.O., 1930  
 Raymer, W.B., 1956  
 V. bean yellow mosaic  
 Osborn, H.T., 1938  
 V. beet curly top  
 Adsuar, Jose, 1955  
 Bennett, C.W., 1944, 1951  
 Bennett, C.W. and A.S. Costa, 1949  
 Bennett, C.W. and Aziz Tanrisever, 1957

- L. esculentum, Mill. (cont.)
- V. beet curly top
    - Carsner, Eubanks and C.F. Stahl, 1924
    - Costa, A.S., 1952
    - Fulton, Robert W., 1955
    - Giddings, N.J., 1938, 1944, 1952, 1954
    - Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951
    - Lackey, C.F., 1929
    - Lesley, J.W., 1931
    - Lesley, J.W. and J.M. Wallace, 1938
    - McKay, M.B. and T.P. Dykstra, 1927
    - Menzies, J.D. and N.J. Giddings, 1952, 1953
    - Severin, Henry H.P., 1928
    - Shapovalov, M., 1927, 1931
    - Virgin, Walter J., 1940
    - Wallace, J.M. and J.W. Lesley, 1944
    - Watson, R.D. and J.E. Kraus, 1949
  - V. beet ring spot \*
    - Harrison, B.D., 1957
  - V. carnation mosaic
    - Wright, Charles M., 1951
  - V. celery mosaic
    - Doolittle, S.P., 1931
    - Doolittle, S.P. and F.L. Wellman, 1934
  - V. chilli veinbanding
    - Simons, John N., 1956
  - V. clover witches' broom \*
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. cucumber green mottle mosaic
    - Ainsworth, G.C., 1935
  - V. cucumber mosaic
    - Ainsworth, G.C., 1940
    - Anderson, C.W., 1951, 1955
    - Berkeley, G.H., 1951, 1953
    - Bhargava, K.S., 1951
    - Bridgmon, G.H. and J.C. Walker, 1952
    - Burnett, G., 1934
    - Doolittle, S.P. and L.J. Alexander, 1936, 1951
    - Doolittle, S.P. and W.J. Zaumeyer, 1953
    - Fulton, Joseph P., 1950
    - Fulton, Robert W., 1941
    - Govier, D.A., 1957
    - Harrison, B.D., 1958
    - Harter, L.L., 1938
    - Heuberger, J.W. and J.B.S. Norton, 1933
    - Hoggan, Isme A., 1927, 1935
    - Hollings, M., 1955
    - Johnson, E.M., 1930
    - Johnson, J., 1926, 1927
    - Johnson, James and Edith M. Hein, 1948
    - Larsh, Howard W. and J.R. Shay, 1945
    - Magee, C.J.P., 1940
    - Mogendorff, N., 1930
    - Nariani, T.K. and Nirmaljit Singh, 1952
    - Nienow, Inez, 1948
    - Pound, Glenn S. and J.C. Walker, 1948
    - Price, W.C., 1934
    - Selman, Ireson W., 1941
    - Severin, Henry H.P., 1950
    - Simons, John N., 1955
    - Storey, I.F., 1939
    - Valleau, W.D., 1932
    - Valleau, W.D. and E.M. Johnson, 1930
    - Wellman, F.L., 1934, 1935
    - Whipple, O.C. and J.C. Walker, 1941
  - V. cucumber western mosaic \*
    - Severin, Henry H.P., 1950
    - Severin, Henry H.P. and Julius H. Freitag, 1948
  - V. datura distortion mosaic
    - Capoor, S.P. and P.M. Varma, 1952
  - V. datura rugose leaf curl
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. dodder latent mosaic
    - Bennett, C.W., 1944, 1949
  - V. eggplant mosaic
    - Dale, W.T., 1954
    - Ferguson, I.A.C., 1951
  - V. henbane mosaic
    - Hamilton, Marion A., 1932
  - V. (legume) little leaf disease \*
    - Hutton, E.M. and N.E. Grylls, 1956
- L. esculentum, Mill. (cont.)
- V. lucerne mosaic
    - Berkeley, G.H., 1947
    - Johnson, E.M., 1946
    - Milbrath, J.A. and F.P. McWhorter, 1953
    - Porter, D.R., 1935
    - Severin, Henry H.P., 1942, 1950
  - V. lucerne witches' broom
    - Helms, Katie, 1957
    - Kunkel, L.O., 1952
  - V. lovage mosaic
    - Smith, Kenneth M. and Roy Markham, 1944
  - V. nicotiana glutinosa mosaic \*
    - Walker, M.N., 1925
  - V. peach X disease
    - Hildebrand, E.M., 1953
    - Kunkel, L.O., 1944
  - V. petunia mosaic
    - Johnson, J., 1926, 1927
  - V. (physalis) mosaic \*
    - Melhus, I.E., 1922
    - Walker, M.N., 1926
  - V. potato A
    - Doolittle, S.P., 1928
    - Jarrett, Phyllis H., 1930
    - Krantz, F.A. and G.R. Bisby, 1921
    - Quanjer, H.M., 1920
    - Schultz, E.S. and Donald Folsom, 1923
    - Smith, J. Henderson, 1928
    - Stover, W.G., 1928
  - V. potato aucuba mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. potato bunch top disease \*
    - Menzies, J.D., 1950
  - V. potato leaf roll
    - Burnett, Grover and Leon K. Jones, 1931
    - Dykstra, T.P., 1930, 1933
    - MacCarthy, H.R., 1954
    - Natti, John J., 1953
    - Stover, W.G., 1928
  - V. potato M \*
    - Bagnall, R.H. and R.H. Larson, 1957
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato necrotic \*
    - Schultz, E.S. and W.P. Raleigh, 1933
  - V. potato paracrinkle
    - Dykstra, T.P., 1939
  - V. potato rosette
    - Hutton, E.M. and C.E.W. Oldaker, 1949
  - V. potato spindle tuber
    - Stover, W.G., 1928
  - V. potato stunt
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. potato witches' broom
    - Young, P.A. and H.E. Morris, 1928
  - V. potato X
    - Ainsworth, G.C., 1933, 1934
    - Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934
    - Bawden, F.C. and F.M.L. Sheffield, 1944
    - Burnett, Grover and Leon K. Jones, 1931
    - Cockerham, George, 1943
    - Dennis, R.W.G., 1939
    - Dykstra, T.P., 1933, 1935
    - Fernow, Karl Hermann, 1925
    - Folsom, Donald and Reiner Bonde, 1937
    - Fulton, Robert W., 1941
    - Goss, R.W., 1931
    - Hamilton, Marion A., 1932
    - Hoggan, Isme A., 1927
    - Johnson, E.M., 1930
    - Johnson, James, 1925, 1927
    - Jones, Leon K. and Grover Burnett, 1935
    - MacNeill, Blair H., 1955
    - Matthews, R.E.F., 1949
    - Samson, R.W., 1930
    - Smith, Kenneth M., 1929
    - Valleau, W.D. and E.M. Johnson, 1930
    - Vasudeva, R. Sahai and T.B. Lal, 1944
  - V. potato Y
    - Alvarez-Garcia, L.A. and Jose Adsuar, 1943

- L. esculentum, Mill. (cont.)
- V. potato Y  
Bawden, F.C. and B. Kassanis, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Dykstra, T.P., 1933, 1939  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Johnson, James, 1927  
Jones, Leon K. and C.L. Vincent, 1937  
Koch, K.L., 1933  
MacNeill, Blair H., 1955  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953  
Samson, R.W., 1930  
Schultz, E.S. and Donald Folsom, 1923  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- V. potato yellow dwarf  
Black, L.M., 1937  
Hougas, R.W., 1951
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
- V. red current ring spot  
Klessner, P.J., 1951
- V. sweet potato mosaic  
Elmer, O.H., 1957
- V. tobacco bergerac ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
- V. tobacco etch  
Anderson, C.W., 1954  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Doolittle, S.P. and L.J. Alexander, 1951  
Fulton, Robert W., 1941  
Holmes, Francis O., 1942, 1946  
Johnson, E.M., 1930  
MacNeill, Blair H., 1955  
Valleau, W.D. and E.M. Johnson, 1930
- V. tobacco green mosaic  
McKinney, H.H., 1929
- V. tobacco leaf curl  
Bird, Julio, 1957  
Nariani, T.K., 1956  
Pal, B.P. and R.K. Tandon, 1937  
Pruthi, Hem Singh and C.K. Samuel, 1941  
Vasudeva, R.S. and J. Sam Raj, 1948
- V. tobacco leaf roll disease \*  
Goenaga, Alvaro, 1945
- V. tobacco mosaic  
Abbott, E.V., 1929, 1931  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Ainsworth, G.C. and I.W. Selman, 1936  
Allard, H.A., 1916  
Berkeley, G.H., 1927, 1951  
Berkeley, G.H. and G.O. Madden, 1932, 1933  
Boyle, John S., 1956  
Boyle, John S. and David C. Wharton, 1956, 1957  
Brierley, W.B., 1916  
Burnett, Grover and Leon K. Jones, 1931  
Caldwell, John, 1932  
Cochran, G.W., 1946  
Conover, Robert A. and Robert W. Fulton, 1953  
Costa, A.S., 1944  
Cox, C.E. and L.O. Weaver, 1950  
Dale, W.T., 1954  
Das, C.R. and S.P. Raychaudhuri, 1953  
Desai, S.V., 1933  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
Doering, G.R., W.C. Price and S.B. Fenne, 1957  
Doolittle, S.P., 1928  
Doolittle, S.P. and L.J. Alexander, 1936, 1951  
Doolittle, S.P. and F.S. Beecher, 1942  
Doolittle, S.P. and W.S. Porte, 1949  
Eckerson, Sophia H. and H.R. Kraybill, 1927  
Fernow, Karl Hermann, 1925
- L. esculentum, Mill. (cont.)
- V. tobacco mosaic  
Fulton, Robert W., 1941  
Gardner, Max W., 1925  
Gardner, Max W. and James B. Kendrick, 1922  
Heuberger, J.W. and J.B.S. Norton, 1933  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1941, 1943, 1946, 1950  
Jarrett, Phyllis H., 1930  
Jensen, J.H., 1933, 1936  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927  
Jones, Leon K., 1940  
Jones, Leon K. and Grover Burnett, 1935  
Kunkel, L.O., 1932  
MacNeill, Blair H., 1955  
McKinney, H.H., 1929, 1952  
McRitchie, John J., 1957  
McRitchie, John J. and Leonard J. Alexander, 1957  
Mogendorff, N., 1930  
Norval, I.P., 1938  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
Peterson, Paul D. and H.H. McKinney, 1938  
Price, W.C. and S.B. Fenne, 1951  
Quanjer, H.M., 1920  
Raychaudhuri, S.P., 1952  
Schultz, E.S. and Donald Folsom, 1923  
Selman, Ireson W., 1941, 1943  
Severin, Henry H.P., 1950  
Sheffield, F.M.L., 1931, 1936  
Smith, J. Henderson, 1928, 1933  
Smith, Kenneth M., 1935  
Stover, W.G., 1928  
Stover, W.G. and M.T. Vermillion, 1933  
Valleau, W.D. and E.M. Johnson, 1930, 1943  
Vanterpool, T.C., 1926  
Verwoerd, Len, 1929  
Walker, M.N., 1926  
Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954  
Woods, M.W. and Richard V. Eck, 1948
- V. tobacco mottle  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco necrosis  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco ring spot  
Henderson, R.G. and S.A. Wingard, 1931  
Steere, Russell L., 1956
- V. tobacco ring spot no. 2  
Brierley, Philip, 1954  
Hildebrand, E.M., 1942  
Price, W.C., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- V. tobacco streak  
Fulton, Robert W., 1948
- V. tobacco vein distorting  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco yellow dwarf  
Hill, A.V., 1950  
Hill, A.V. and M. Mandryk, 1954
- V. tomato aspermy  
Blencowe, J.W. and John Caldwell, 1949  
Brierley, Philip and Floyd F. Smith, 1953  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
Hollings, M., 1955
- V. tomato big bud  
Alvarez-Garcia, L.A. and Jose Adsuar, 1950  
Dana, B.F., 1940  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954  
Hutton, E.M. and D.C. Work, 1947  
Menzie, J.D., 1950  
Norris, D.O., 1954  
Samuel, G., J.G. Bald and C.M. Eardley, 1933  
Vasudeva, R. Sahai and T.B. Lal, 1944
- V. tomato black ring  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tomato bushy stunt  
Johnson, Folke, 1941  
Smith, Kenneth M., 1935  
Steere, Russell L., 1953

- L. esculentum*, Mill. (cont.)
- V. tomato ring spot
    - Imle, E.P. and R.W. Samson, 1937
    - Samson, R.W. and E.P. Imle, 1942
    - Varney, E.H. and J. Duain Moore, 1952
  - V. tomato shoestring \*
    - Doering, G.R., W.C. Price and S.B. Fenne, 1957
  - V. tomato spotted wilt
    - Ainsworth, G.C., 1933, 1940
    - Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934
    - Bennett, C.W., 1944
    - Berkeley, G.H., 1935
    - Best, Rupert J. and Geoffrey Samuel, 1936
    - Black, L.M., M.K. Brakke and A.E. Vatter, 1952
    - Doolittle, S.P. and C.B. Sumner, 1931, 1934
    - Ferguson, I.A.C., 1951
    - Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
    - Gardner, M.W. and O.C. Whipple, 1934
    - Holmes, Francis O., 1948
    - Hutton, E.M. and A.R. Peak, 1949, 1953
    - Jones, Leon K., 1944
    - MacNeill, Blair H., 1955
    - McWhorter, F.P., 1935
    - McWhorter, F.P. and J.A. Milbrath, 1935
    - Milbrath, J.A., 1939
    - Norris, D.O., 1951
    - Parris, G.K., 1940
    - Sakimura, K., 1940
    - Shapovalov, M., 1934
    - Sherf, A.F., 1948
    - Smith, Kenneth M., 1931, 1932, 1935
    - Smith, Paul G., 1944
    - Smith, Paul G. and M.W. Gardner, 1948, 1951
    - Snyder, W.C. and H. Rex Thomas, 1936
    - Tompkins, C.M. and M.W. Gardner, 1934
    - Whipple, O.C., 1936
    - Yu, T.F., 1947
  - V. tomato twisted leaf
    - Ferguson, I.A.C., 1951
  - V. tomato V-52-1
    - Miller, Patrick M., 1953
  - V. tomato yellow net
    - Sylvester, Edward S., 1954
  - V. tomato yellow top
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. turnip crinkle
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. vaccinium false blossom
    - Costa, A.S., 1944
    - Kunkel, L.O., 1943, 1945
- L. esculentum* var. *cerasiforme*, (Dun.) A. Gray
- V. chilli veinbanding
    - Simons, John N., 1956
  - V. tobacco mosaic
    - Gardner, Max W. and James B. Kendrick, 1922
- L. esculentum* var. *grandifolium*, Bailey
- V. cucumber mosaic
    - Mogendorff, N., 1930
- L. esculentum* var. *Sioux* x *L. hirsutum*, H. B. & K.
- V. tobacco mosaic
    - Watson, R.D. and E.C. Heinrich, 1951
- L. esculentum* f. *pyriforme*, (Dun.) C.H. Mull.
- V. potato X
    - Dennis, R.W.G., 1939
- L. esculentum* x *L. chilense*, Dun.
- V. tobacco mosaic
    - Holmes, Francis O., 1943
- L. esculentum* x *L. hirsutum*, H. B. & K.
- V. tobacco mosaic
    - Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954
- L. esculentum* x *L. pimpinellifolium*, (Jusl.) Mill.
- V. tomato twisted leaf
    - Ferguson, I.A.C., 1951
- L. glandulosum*, C.H. Mull.
- V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
- L. hirsutum*, H. B. & K.
- V. beet curly top
    - Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951
- L. hirsutum*, H. B. & K. (cont.)
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
    - Doolittle, S.P., W.S. Porte and F.S. Beecher, 1946
    - Holmes, Francis O., 1946
    - Porte, W.S., S.P. Doolittle and F.L. Wellman, 1939
    - Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954
  - V. tomato big bud
    - Hutton, E.M. and D.C. Work, 1947
  - V. tomato spotted wilt
    - Smith, Paul G., 1944
- L. hirsutum* f. *glabratum*, C.H. Mull. \*
- V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
- L. hirsutum* x *L. esculentum*, Mill.
- V. tobacco mosaic
    - Doolittle, S.P. and W.S. Porte, 1949
- L. hybrids*
- V. tomato spotted wilt
    - Hutton, E.M. and A.R. Peak, 1949
- L. lycopersicon*, (L.) Karst. \*
- V. cucumber mosaic
    - Adsuar, Jose and A. Cruz Miret, 1950
- L. peruvianum*, (L.) Mill.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
    - Holmes, Francis O., 1946
    - Nagaich, B.B. and H.H. Thornberry, 1957
  - V. tomato big bud
    - Hutton, E.M. and D.C. Work, 1947
  - V. tomato spotted wilt
    - Hutton, E.M. and A.R. Peak, 1949, 1953
- L. peruvianum* subsp. *dentatum*, (Dun.) Luckwill.
- V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
- L. pimpinellifolium*, (Jusl.) Mill.
- V. beet curly top
    - Costa, A.S., 1952
    - Lesley, J.W. and J.M. Wallace, 1938
  - V. eggplant mosaic
    - Dale, W.T., 1954
    - Ferguson, I.A.C., 1951
  - V. potato A
    - MacLachlan, D.S. and R.H. Larson, 1953
    - MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato leaf roll
    - MacCarthy, H.R., 1954
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
    - Gardner, Max W. and James B. Kendrick, 1922
    - Holmes, Francis O., 1946
  - V. tomato big bud
    - Hutton, E.M. and D.C. Work, 1947
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt
    - Hutton, E.M. and A.R. Peak, 1949, 1953
    - Sakimura, K., 1940
    - Smith, Paul G., 1944
    - Smith, Paul G. and M.W. Gardner, 1948, 1951
  - V. tomato yellow net
    - Sylvester, Edward S., 1954
  - V. turnip mosaic
    - Hoggan, I.A. and J. Johnson, 1935
- L. pimpinellifolium* No. 381-1 x No. 548
- V. beet curly top
    - Lesley, J.W. and J.M. Wallace, 1938
- L. pimpinellifolium* No. 503 x F.P.I. 79532
- V. beet curly top
    - Lesley, J.W. and J.M. Wallace, 1938
- L. pimpinellifolium* No. 573 x No. 548
- V. beet curly top
    - Lesley, J.W. and J.M. Wallace, 1938

- L. pimpinellifolium*, (Jusl.) Mill. No. 573 x F.P.I.  
 V. beet curly top 79532  
 L3sley, J.W. and J.M. Wallace, 1938
- L. pimpinellifolium* x *L. esculentum*, Mill.  
 V. tomato spotted wilt  
 Smith, Paul G. and M.W. Gardner, 1948
- L. racemigerum*, Lange  
 V. potato X  
 Dennis, R.W.G., 1939
- V. potato Y  
 Smith, Kenneth M. and R.W.G. Dennis, 1940
- L. spp.* (South America)  
 V. tomato big bud  
 Dana, B.F., 1940
- LYCOPSIS *L.* 1735 (Boraginaceae)  
*L. arvensis*, *L.*  
 V. beet ring spot \*  
 Harrison, B.D., 1957
- LYCOPUS *Tourn. ex L.* 1735 (Labiatae)  
*L. rubellus*, Moench  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- L. virginicus*, *L.*  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- LYTHRUM *L.* 1735 (Lythraceae)  
*L. salicaria*, *L.*  
 V. cucumber mosaic  
 Price, W.C., 1940
- MADIA *Molina* 1782 (Compositae)  
*M. sativa*, *Mol.*  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- MAJORANA ((*Tourn.*)) *Rupp.* 1745 (Labiatae)  
*M. hortensis*, Moench  
 V. lucerne dwarf  
 Freitag, Julius H., 1951
- MALCOMIA ((*R. Br. in*)) *Ait. Hort. Kew.* 1812  
 (MALCOLMIA) *Spreng.* 1818 (Cruciferae)  
*M. maritima*, *R. Br.*  
 V. anemone mosaic \*  
 Hollings, M., 1957
- V. aster yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. beet curly top  
 Giddings, N.J., 1944
- V. cabbage black ring spot  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1937, 1938
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. turnip mosaic  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- MALUS *Tourn. ex L.* 1737 (Rosaceae)  
*M. baccata*, (*L.*) *Borkh.*  
 V. apple mosaic  
 Hockey, J.F., 1943
- M. coronaria*, (*L.*) *Mill.*  
 V. apple dwarf fruit  
 Cation, Donald and Roy E. Gibson, 1952
- M. spectabilis*, (*Ait.*) *Borkh.*  
 V. apple mosaic  
 Thomas, H. Earl and L.M. Massey, 1939
- M. spp.*  
 V. apple false sting  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. apple mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. apple ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- M. spp.* (cont.)  
 V. apple rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. apple rough skin  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. apple rubbery wood  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. apple witches' broom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- M. sylvestris*, *Mill.*  
 V. apple \*  
 Hilborn, M.T. and Reiner Bonde, 1956  
 Millikan, D.F. and H.W. Guengerich, 1956
- V. apple dwarf fruit  
 Cation, Donald and Roy E. Gibson, 1952
- V. apple false sting  
 Hockey, J.F., 1941, 1943
- V. apple green mottle  
 Palmiter, D.H. and K.G. Parker, 1955
- V. apple mosaic  
 Blodgett, F.M., 1938  
 Fulton, Robert W., 1956  
 Gilmer, R.M., 1956  
 Hockey, J.F., 1943  
 Hunter, J.A., E.E. Chamberlain and J.D.  
 Atkinson, 1958  
 Kirkpatrick, Hugh C., 1955  
 Posnette, A.F. and R. Cropley, 1956  
 Posnette, A.F. and Christina E. Ellenberger,  
 1957  
 Yarwood, C.E., 1955, 1957  
 Yarwood, C.E. and H.E. Thomas, 1954
- V. peach ring spot  
 Cochran, L.C., 1950
- M. sylvestris* on *M. angustifolia*, (*Ait.*) *Michx.*  
 V. apple stem pitting \*  
 Guengerich, H.W. and D.F. Millikan, 1956
- MALVA ((*Tourn.*)) *L.* 1735 (Malvaceae)  
*M. nicaeensis*, *All.*  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- M. parviflora*, *L.*  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- V. beet curly top  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Carsner, E., 1919  
 Severin, Henry H.P., 1929, 1934
- V. *datura rugose* leaf curl  
 Grylls, N.E., 1955
- V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956
- V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957
- V. tobacco yellow dwarf  
 Helson, G.A.H., 1950
- M. rotundifolia*, *L.*  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957
- V. tobacco streak  
 Fulton, Robert W., 1948
- V. tomato spotted wilt  
 Milbrath, J.A., 1939
- M. spp.*  
 V. hollyhock mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- M. sylvestris*, *L.*  
 V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957
- MALVASTRUM *A. Gray* 1849 (Malvaceae)  
*M. coromandelianum*, *Garcke*  
 V. abutilon infectious variegation  
 Crandall, Bowen S., 1954

- MANIHOT Tourn. ex Adans. 1763 (Euphorbiaceae)  
*M. esculenta*, Crantz (*M. utilis*, Pohl)  
 V. cassava brown streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cassava mosaic  
 Chant, S.R., 1958  
 McKinney, H.H., 1928  
 Storey, H.H. and R.F.W. Nichols, 1938  
*M. palmata*, Muell. Arg.  
 V. cassava mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*M. spp.*  
 V. (cassava) green mosaic \*  
 McKinney, H.H., 1929
- MARANTA Plum. ex L. 1737 (Marantaceae)  
*M. arundinacea*, L.  
 V. cucumber mosaic  
 Celino, M.S. and Aureo L. Martinez, 1956
- MARRUBIUM Tourn. ex L. 1735 (Labiatae)  
*M. vulgare*, L.  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- MARTYNIA Houst. ex L. 1735 (Martyniaceae)  
*M. annua*, L.  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
*M. louisiana*, Mill.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. cucurbit mosaic \*  
 Doolittle, S.P., 1921  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. tobacco mosaic  
 Fernow, Karl Hermann, 1925  
 Grant, T.J., 1934  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- MATRICARIA ((Tourn.)) L. 1735 (Compositae)  
*M. alba*, Hort. ex Vilmorin's Blumeng.  
 V. aster yellows  
 Kunkel, L.O., 1926  
*M. inodora*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*M. matricarioides*, (Less.) Porter  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1958  
*M. suaveolens*, (Pursh) Buch.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945
- MATTHIOLA R. Br. 1812 (Cruciferae)  
*M. bicornis*, (Sibth. & Sm.) DC.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. clover big vein  
 Black, L.M., 1945  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*M. incana*, (L.) R. Br.  
 V. beet curly top  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. cauliflower mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Tompkins, C.M., 1934
- M. incana*, (L.) R. Br. (cont.)  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 V. radish mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. stock mosaic  
 Tompkins, C.M., 1934  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
*M. incana* var. *annua*, (L.) Voss  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1937, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Severin, Henry H.P. and C.M. Tompkins, 1948  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- MEDICAGO Tourn. ex L. 1737 (Leguminosae)  
*M. arabica*, (L.) All.  
 V. bean yellow mosaic  
 Elliott, J.A., 1921  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. pea enation mosaic  
 Simons, John N., 1954  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. red clover mosaic \*  
 Elliott, J.A., 1921  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
*M. denticulata*, Willd.  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950  
 Hill, A.V., 1950  
*M. falcata*, L.  
 V. lucerne dwarf  
 Houston, Byron R. and Ernest H. Stanford, 1954  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
*M. glutinosa*, Bieb.  
 V. lucerne dwarf  
 Houston, Byron R. and Ernest H. Stanford, 1954  
*M. hispida*, Gaertn.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945  
 V. beet curly top  
 Carsner, E., 1919  
 Giddings, N.J., 1944  
 Severin, Henry H.P., 1934  
 Severin, Henry H.P. and Charles F. Henderson,  
 1928  
 V. lucerne dwarf  
 Freitag, Julius H., 1951  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 Menzies, J.D., 1944, 1946  
 V. pea enation mosaic  
 Simons, John N., 1954

- M. hispida*, Gaertn. (cont.)  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- M. hispida* var. *denticulata* \*  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- M. lupulina*, L.  
 V. bean yellow mosaic  
 Hungerford, C.W. and Irvin G. Hillyer, 1954  
 V. *datura rugose* leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 Menzies, J.D., 1944, 1946  
 V. pea mottle  
 Johnson, Folke, 1942  
 Johnson, Folke and Leon K. Jones, 1937  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. potato yellow dwarf  
 Hansing, E.D., 1942  
 V. red clover mosaic \*  
 Dickson, B.T., 1922  
 V. red clover vein mosaic  
 Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- M. obscura*, Retz.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949
- M. orbicularis*, All.  
 V. bean yellow mosaic  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. Wisconsin pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954
- M. ruthenica*, Trautv.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951
- M. sativa*, L.  
 V. alsike clover mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Zaumeyer, W.J., 1940  
 V. bean yellow mosaic  
 McWhorter, Frank P., 1949  
 Zaumeyer, W.J., 1940  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. *datura rugose* leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
 V. lucerne dwarf  
 Frazier, Norman W. and J.H. Freitag, 1946  
 Freitag, J.H., 1951  
 Freitag, J.H. and Norman W. Frazier, 1954  
 Freitag, J.H., N.W. Frazier and R.A. Flock, 1952  
 Hewitt, Wm.B., Byron R. Houston, Norman W. Frazier and J.H. Freitag, 1946  
 Houston, Byron R., Katherine Esau and Wm.B. Hewitt, 1946  
 Houston, Byron R., N.W. Frazier and Wm.B. Hewitt, 1942  
 Houston, Byron R. and Ernest H. Stanford, 1954  
 Severin, Henry H.P., 1949  
 Stoner, Warren N., 1953  
 Weimer, J.L., 1936
- V. lucerne mosaic  
 Diachun, Stephen and Lawrence Henson, 1957  
 Henson, Lawrence and Stephen Diachun, 1957  
 Houston, Byron R. and John W. Oswald, 1951, 1953  
 Johnson, E.M., 1946  
 McWhorter, Frank P., 1949  
 Oswald, John W., 1950  
 Pierce, W.H., 1934, 1937  
 Snyder, William C. and Saul Rich, 1942  
 Swenson, K.G., 1952  
 Thomas, H. Rex, 1951
- M. sativa*, L. (cont.)  
 V. lucerne mosaic  
 Weimer, J.L., 1931, 1934  
 Zaumeyer, W.J., 1938, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lucerne witches' broom  
 Helms, Katie, 1957  
 Kunkel, L.O., 1952  
 Menzies, J.D., 1944, 1946  
 Menzies, J.D. and F.D. Heald, 1942  
 V. pea enation mosaic  
 Johnson, Folke and Leon K. Jones, 1937  
 McEwen, F.L. and W.T. Schroeder, 1956  
 V. pea leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. pea mosaic  
 Johnson, F. and L.K. Jones, 1936  
 V. pea mottle  
 Johnson, Folke, 1942  
 Johnson, F. and L.K. Jones, 1936, 1937  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. tobacco ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950  
 V. tomato big bud  
 Helms, Katie, 1957
- M. tribuloides*, Desr.  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943
- MELILOTUS Tourn. ex Hall. 1742 (Leguminosae)
- M. alba*, Desr.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. bean common mosaic  
 Harrison, Arthur L., 1935  
 V. bean Montana \*  
 Afanasiev, M.M. and H.E. Morris, 1946  
 V. bean yellow mosaic  
 Afanasiev, M.M. and H.E. Morris, 1952  
 Conover, Robert A., 1948  
 Diachun, Stephen and Lawrence Henson, 1956  
 Elliott, J.A., 1921  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
 Hungerford, C.W. and Irvin G. Hillyer, 1954  
 McWhorter, Frank P., 1949  
 Pierce, W.H., 1934, 1937  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1940, 1952  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. clover big vein  
 Black, L.M., 1945, 1951  
 V. cucumber mosaic  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. lucerne mosaic  
 Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
 Kreitlow, K.W. and W.C. Price, 1949  
 Pierce, W.H., 1934, 1937  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
 V. pea enation mosaic  
 McEwen, F.L. and W.T. Schroeder, 1956  
 V. pea mosaic  
 Hagedorn, D.J., 1948  
 Murphy, D.M. and W.H. Pierce, 1937  
 Osborn, H.T., 1937

- M. alba*, Desr. (cont.)
- V. pea mosaic  
Pierce, W.H., 1937  
Zaumeier, W.J. and B.L. Wade, 1935
  - V. pea mottle  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936
  - V. pea streak  
Hagedorn, D.J., 1948  
Zaumeier, W.J., 1938
  - V. pea wilt  
Johnson, Folke, 1942
  - V. prunus A \*  
Fulton, Robert W., 1957
  - V. prunus B \*  
Fulton, Robert W., 1957
  - V. prunus G \*  
Fulton, Robert W., 1957
  - V. red clover mosaic \*  
Elliott, J.A., 1921
  - V. red clover vein mosaic  
Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
Hagedorn, D.J. and E.W. Hanson, 1951  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
Osborn, H.T., 1937
  - V. soybean new disease \*  
Dunleavy, John, 1957
  - V. subterranean clover mosaic  
Aitken, Y. and B.J. Grieve, 1943
  - V. tobacco ring spot  
Fenne, S.B., 1931  
Henderson, R.G., 1934  
Pierce, W.H., 1934  
Pound, Glenn S., 1949  
Rich, Saul, 1940  
Stubbs, M.W., 1937
  - V. tobacco streak  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeier, 1950
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
- M. alba* var. *annua*, Coe
- V. lucerne dwarf  
Freitag, J.H., 1951
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
- M. altissima*, Thuill.
- V. clover big vein  
Black, L.M., 1951
- M. dentata*, (Waldst. & Kit.) Pers.
- V. clover big vein  
Black, L.M., 1951
- M. indica*, (L.) All.
- V. bean yellow mosaic  
Hagedorn, D.J. and E.W. Hanson, 1953
  - V. beet curly top  
Giddings, N.J., 1944  
Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. beet mosaic  
Bennett, C.W., 1949
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. clover big vein  
Black, L.M., 1951
  - V. lucerne dwarf  
Freitag, J.H., 1951
  - V. lucerne mosaic  
Hagedorn, D.J. and E.W. Hanson, 1953  
Kreitlow, K.W. and W.C. Price, 1949  
Snyder, William C. and Saul Rich, 1942
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
  - V. prunus B \*  
Fulton, Robert W., 1957
  - V. red clover vein mosaic  
Hagedorn, D.J. and E.W. Hanson, 1953
  - V. subterranean clover mosaic  
Aitken, Y. and B.J. Grieve, 1943
  - V. tobacco ring spot  
LeBeau, F.J., 1947  
Pound, Glenn S., 1949
- M. indica*, (L.) All. (cont.)
- V. tobacco streak  
Diachun, Stephen and W.D. Valleau, 1950
- M. officinalis*, (L.) Lam.
- V. bean Montana \*  
Afanasiev, M.M. and H.E. Morris, 1946
  - V. bean yellow mosaic  
Afanasiev, M.M. and H.E. Morris, 1952  
Baggett, James R., 1957  
Conover, Robert A., 1948  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and E.W. Hanson, 1957  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Pierce, W.H., 1935  
Zaumeier, W.J. and B.L. Wade, 1935
  - V. clover big vein  
Black, L.M., 1951
  - V. cucumber mosaic  
Hagedorn, D.J., 1950, 1954  
Whipple, O.C. and J.C. Walker, 1941
  - V. lucerne dwarf  
Freitag, J.H., 1951  
Hagedorn, D.J. and E.W. Hanson, 1957
  - V. lucerne mosaic  
Kreitlow, K.W. and W.C. Price, 1949
  - V. pea enation mosaic  
Hagedorn, D.J. and J.C. Walker, 1954  
McEwen, F.L. and W.T. Schroeder, 1956  
Stubbs, M.W., 1936, 1937
  - V. pea mosaic  
Hagedorn, D.J., 1948  
Hagedorn, D.J. and J.C. Walker, 1954
  - V. pea mottle  
Johnson, Folke and Leon K. Jones, 1937
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1936, 1937
  - V. prunus B \*  
Fulton, Robert W., 1957
  - V. red clover vein mosaic  
Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
Hagedorn, D.J. and E.W. Hanson, 1957  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. tobacco ring spot  
Henderson, R.G., 1934  
Henderson, R.G. and S.A. Wingard, 1931  
Stubbs, M.W., 1937  
Wingard, S.A., 1928
  - V. tobacco streak  
Fulton, Robert W., 1948
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Skotland, C.B., 1953  
Skotland, C.B. and D.J. Hagedorn, 1954
- M. polonica*, Pers.
- V. clover big vein  
Black, L.M., 1951
- M. spp.*
- V. bean yellow mosaic  
McLarty, H.R., 1920
  - V. lucerne mosaic  
Kreitlow, K.W. and W.C. Price, 1948
  - V. tobacco streak  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- M. suaveolens*, Ledeb.
- V. clover big vein  
Black, L.M., 1951
  - V. lucerne mosaic  
Kreitlow, K.W. and W.C. Price, 1949
- M. taurica*, (Bieb.) Ser.
- V. clover big vein  
Black, L.M., 1951
- M. tommasinii*, Jord.
- V. clover big vein  
Black, L.M., 1951
- M. wolgica*, Poir.
- V. clover big vein  
Black, L.M., 1951



- MELOTHRIA L. 1737 (Cucurbitaceae)  
*M. guadalupensis*, (Spreng.) Cogn.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
*M. pendula*, L.  
 V. muskmelon mosaic  
 Anderson, C.W., 1954  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. watermelon mosaic  
 Anderson, C.W., 1954  
*M. scabra*, Naud.  
 V. cucumber mosaic  
 Jagger, I.C., 1918  
*M. spp.*  
 V. watermelon mosaic  
 Anderson, C.W., 1952
- MENTHA ((Tourn.)) L. 1735 (Labiatae)  
*M. spicata*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*M. spp.*  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- MERREMIA Dennst. 1818 (Convolvulaceae)  
*M. sibirica*, (Pers.) Hall. f.  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954
- MERTENSIA Roth 1797 (Boraginaceae)  
*M. virginica*, (L.) DC.  
 V. cucumber mosaic  
 Nienow, Inez, 1948
- MESEMBRYANTHEMUM Dill. ex L. 1735 (Aizoaceae)  
*M. crystallinum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*M. lineare*, Thunb.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- MICROSERIS D. Don 1832 (Compositae)  
*M. douglasii*, Sch.  
 V. beet curly top  
 Severin, Henry H.P., 1934
- MILLETTIA Wight & Arn. 1834 (Leguminosae)  
*M. makondensis*, Harms  
 V. groundnut rosette  
 Evans, A.C., 1954
- MIMULUS L. 1741 (Scrophulariaceae)  
*M. cardinalis*, Dougl.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
*M. guttatus*, DC.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin,  
 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. tomato bushy stunt  
 Smith, Kenneth M., 1935  
*M. luteus*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957
- M. luteus*, L. (cont.)  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. tomato bushy stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*M. moschatus*, Dougl.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
*M. tigrinus*, Hort. ex Vilmorin  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- MIRABILIS Riv. ex L. 1735 (Nyctaginaceae)  
*M. jalapa*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948
- MISCANTHUS Anderss. 1855 (Gramineae)  
*M. sinensis*, Anders.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klapaak, 1923
- MODIOLA Moench 1794 (Malvaceae)  
*M. caroliniana*, (L.) G. Don  
 V. beet curly top  
 Severin, Henry H.P., 1934, 1939  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950
- MOLLUGO L. 1737 (Aizoaceae)  
*M. verticillata*, L.  
 V. cucumber mosaic  
 Faan, Hwei-Chung and James Johnson, 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- MOMORDICA ((Tourn.)) L. 1735 (Cucurbitaceae)  
*M. balsamina*, L.  
 V. cucumber mosaic  
 Jagger, I.C., 1918  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. prunus isolates A, E, G \*  
 Fulton, Robert W., 1957  
*M. charantia*, L.  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S., S.P. Raychaudhuri and  
 Jagannath Singh, 1949  
 V. cucumber mosaic  
 Simons, John N., 1957  
 Vasudeva, R. Sahai and T.B. Lal, 1943  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925

- M. charantia*, L. (cont.)  
 V. muskmelon mosaic  
 Anderson, C.W., 1954  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, J.H., 1956  
*M. involucreta*, E. Meyer  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925
- MONOLEPIS Schrad. 1830 (Chenopodiaceae)  
*M. nuttalliana*, (R. & S.) Greene  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. trifida*, Schrad.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- MUCUNA Adans. 1763 (Leguminosae)  
 (STIZOLOBIUM) P. Br. 1756  
*M. pruriens*, (L.) DC.  
 V. abutilon infectious variegation  
 Crandall, Bowen S., 1954  
 (S. spp.)  
 V. abutilon infectious variegation  
 Crandall, Bowen S., 1954  
 V. tobacco ring spot  
 Pierce, W.H., 1934
- MUSA L. 1736 (Musaceae)  
*M. banksii*, F. Muell.  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*M. cavendishii*, Lamb.  
 V. cucumber mosaic  
 Magee, C.J.P., 1940  
 Wellman, F.L., 1934, 1935  
*M. ensete*, Gmel.  
 V. cucumber mosaic  
 Magee, C.J.P., 1940  
*M. fehi*, Vieill.  
 V. banana bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*M. paradisiaca*, L., subsp. *sapientum*, (L.) Kuntze  
 V. cucumber mosaic  
 Castillo, Bernardo S., 1952  
 Magee, C.J.P., 1940  
 Wellman, F.L., 1934, 1935  
*M. paradisiaca* var. *cinerea*, Blanco  
 V. abaca bunchy top  
 Ocfemia, Gerardo Offimaria, 1930  
*M. paradisiaca* var. *lacatan*, Blanco  
 V. abaca bunchy top  
 Ocfemia, Gerardo Offimaria, 1930  
*M. paradisiaca* var. *suaveolens*, Blanco  
 V. abaca bunchy top  
 Ocfemia, Gerardo Offimaria, 1930  
*M. spp.*  
 V. banana bunchy top  
 Magee, C.J.P., 1940, 1948  
*M. textilis*, Nee  
 V. abaca bunchy top  
 Calinisan, Melanio R., 1931  
 Calinisan, Melanio R. and Crispiniano C. Hernandez, 1936  
 Ocfemia, G.O., 1926, 1930  
 Ocfemia, G.O. and Gabino G. Buhay, 1934  
 Ocfemia, G.O., Martin S. Celino and Feliciano J. Garcia, 1947  
 V. canna mosaic  
 Juliano, Jorge P., 1951  
 Ocfemia, G.O., Isidro S. Macaspac and Hsieh Feng Yuan, 1941  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
 Calinisan, Melanio R., 1938  
 Celino, Martin S., 1940  
 Celino, M.S. and Aureo L. Martinez, 1955, 1956
- M. textilis*, Nee (cont.)  
 V. cucumber mosaic  
 Lawas, Orencio M. and William L. Fernandez, 1949  
 Magee, C.J.P., 1940  
 Ocfemia, G.O. and Martin S. Celino, 1938  
 Ocfemia, G.O., Martin S. Celino and Feliciano J. Garcia, 1947  
 V. maize mosaic  
 Juliano, Jorge P., 1951  
 V. sugarcane mosaic  
 Lawas, Orencio M. and William L. Fernandez, 1949  
*M. textilis* x *M. balbisiana*, Colla.  
 V. abaca bunchy top  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*M. textilis* x *M. banksii*, F. Muell.  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- MYOSOTIS ((Tourn.)) Dill. ex L. 1735 (Boraginaceae)  
*M. alpestris*, Schmidt  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
*M. arvensis*, Lam.  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1958  
*M. scorpioides*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*M. sylvatica*, Hoffm.  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- MYRICA L. 1735 (Myricaceae)  
*M. carolinensis*, Mill.  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1952, 1953
- NARCISSUS ((Tourn.)) L. 1735 (Amaryllidaceae)  
*N. jonquilla*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
*N. pallida praecox*, Hort. \*  
 V. narcissus stripe \*  
 Caldwell, John and Ian W. Prentice, 1943  
*N. poeticus*, L.  
 V. (lily) color adding \*  
 McWhorter, F.P., 1932  
 V. (lily) color removing \*  
 McWhorter, F.P., 1932  
 V. tulip breaking  
 McWhorter, F.P., 1932  
*N. pseudo-narcissus*, L.  
 V. narcissus mosaic  
 Haasis, Frank A., 1939  
*N. spp.*  
 V. narcissus mosaic  
 Blanton, F.S. and F.A. Haasis, 1942  
 Haasis, Frank A., 1939  
 McWhorter, Frank P. and Freeman Weiss, 1932  
 V. narcissus stripe \*  
 Caldwell, John and Ian W. Prentice, 1943  
 Hawker, Lilian E., 1943  
*N. tazetta*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935

- N. triandrus*, L.  
*V. narcissus stripe* \*  
 Caldwell, John and Ian W. Prentice, 1943
- NASTURTIUM** L. 1735 (Cruciferae)  
*N. officinale*, R. Br. (*Rorippa nasturtium-aquaticum*, (L.) Schinz & Thell.)  
*V. cabbage black ring*  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937  
*V. cucumber mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. turnip yellow mosaic*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- NEMESIA** Vent. 1803 (Scrophulariaceae)  
*N. spp.*  
*V. carrot motley dwarf*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. strumosa*, Benth.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot no. 2*  
 Price, W.C., 1940
- NEMOPHILA** Nutt. ex Barton 1882 (Hydrophyllaceae)  
*N. maculata*, Benth.  
*V. aster yellows*  
 Kunkel, L.O., 1926  
*V. beet curly top*  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Giddings, N.J., 1944  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*N. menziesii*, Hook. & Arn., subsp. *insignis*, Brand.  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot no. 2*  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- NEPETA** Riv. ex L. 1737 (Labiatae)  
*N. cataria*, L.  
*V. cucurbit mosaic* \*  
 Doolittle, S.P. and M.N. Walker, 1925  
*V. elm mosaic*  
 Varney, E.H. and J. Duain Moore, 1952  
*V. prunus B* \*  
 Fulton, Robert W., 1957  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco streak*  
 Fulton, Robert W., 1948  
*V. tomato spotted wilt*  
 Milbrath, J.A., 1939
- N. mussini*, Spreng.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- NERIUM** L. 1735 (Apocynaceae)  
*N. oleander*, L.  
*V. rose mosaic*  
 Fulton, Robert W., 1952
- NESLIA** Desv. 1814 (Cruciferae)  
*N. paniculata*, (L.) Desv.  
*V. cabbage ring necrosis*  
 Larson, R.H. and J.C. Walker, 1941  
*V. cauliflower mosaic*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. turnip crinkle*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip mosaic*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. turnip yellow mosaic*  
 Broadbent, L. and G.D. Heathcote, 1958
- NICANDRA** Adans. 1763 (Solanaceae)  
*N. physalodes*, (L.) Gaertn.  
*V. abutilon infectious variegation*  
 Silberschmidt, K. and L.R. Tommasi, 1956  
*V. cucumber mosaic*  
 Burnett, G., 1934  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Pound, Glenn S. and J.C. Walker, 1948  
 Wellman, F.L., 1935  
*V. datura rugose leaf curl*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. euphorbia mosaic*  
 Costa, A.S. and C.W. Bennett, 1950  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. (physalis) mosaic* \*  
 Fernow, K.H., 1923  
*V. potato A*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 MacLachlan, D.S. and R.H. Larson, 1953  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
*V. potato leaf roll*  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
*V. potato X*  
 Dennis, R.W.G., 1939  
 Fernow, K.H., 1923, 1925  
 Folsom, Donald and Reiner Bonde, 1937  
 Goss, R.W., 1931  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Larson, R.H., 1947  
 Smith, J. Henderson, 1928  
*V. potato Y*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 Hoggan, Isme A., 1927  
 Koch, K.L., 1933  
 Sakimura, K., 1953  
*V. red currant ring spot*  
 Klessner, P.J., 1951  
*V. tobacco broad ring spot*  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco coarse etch*  
 Johnson, E.M., 1930  
*V. tobacco etch*  
 Fulton, Robert W., 1941  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
*V. tobacco mosaic*  
 Crawford, R.F., 1921  
 Fulton, Robert W., 1941  
 Hoggan, Isme A., 1927  
 Holmes, Francis O., 1946  
 Jarrett, Phyllis H., 1930  
 Johnson, E.M., 1930  
*V. tobacco necrosis*  
 Price, W.C., 1940

- N. physalodes*, (L.) Gaertn. (cont.)
- V. tobacco ring spot
    - Fulton, Robert W., 1941
    - Johnson, E.M., 1930
    - Wingard, S.A., 1928
  - V. tobacco streak
    - Fulton, Robert W., 1948
    - Johnson, J., 1936
  - V. tomato bunchy top
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt
    - Gardner, M.W. and O.C. Whipple, 1934
  - V. turnip mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. wild cucumber mosaic \*
    - Fernow, Karl Hermann, 1925
- NICOTIANA L. 1735 (Solanaceae)
- N. acuminata*, Hook.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Adsuar, J. and L. Lopez Matos, 1955
    - Caldwell, John, 1932
    - Diachun, Stephen and W.D. Valleau, 1954
    - Holmes, Francis O., 1929, 1934, 1946
    - Jensen, J.H., 1933
    - Kunkel, L.O., 1932
  - V. tobacco ring spot
    - Wingard, S.A., 1928
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tomato spotted wilt
    - Gardner, M.W. and O.C. Whipple, 1934
  - V. turnip mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. affinis*, T. Moore
- V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. cucumber mosaic
    - Govier, D.A., 1957
  - V. potato X
    - Smith, J. Henderson, 1928
  - V. tobacco mosaic
    - Jarrett, Phyllis H., 1930
    - McKinney, H.H., 1935
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
- N. alata*, Link & Otto
- V. cucumber mosaic
    - Price, W.C., 1941
  - V. lucerne mosaic
    - Price, W.C., 1940
  - V. potato X
    - Dennis, R.W.G., 1939
  - V. potato Y
    - Smith, Kenneth M. and R.W.G. Dennis, 1940
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Diachun, Stephen and W.D. Valleau, 1954
    - Holmes, F.O., 1934, 1946
    - Kunkel, L.O., 1932
    - Weber, Paul V.V., 1951
  - V. tobacco ring spot
    - Steere, Russell L., 1956
  - V. tobacco ring spot no. 2
    - Wilkinson, R.E., 1952
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tomato spotted wilt
    - Gardner, M.W. and O.C. Whipple, 1934
- N. alata* var. *grandiflora*, Comes
- V. beet curly top
    - Freitag, Julius H. and Henry H.P. Severin, 1936
  - V. chilli (pepper) mosaic
    - Dale, W.T., 1954
  - V. delphinium ring spot
    - Severin, Henry H.P. and R.C. Dickson, 1942
  - V. alata var. *grandiflora*, Comes (cont.)
    - V. turnip mosaic
      - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. arentsii*, Goodspeed
- V. tobacco mosaic
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
- N. atropurpureum*, Hort. \*
- V. tomato spotted wilt
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. attenuata*, Torr. ex S. Wats.
- V. tobacco mosaic
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
- N. australasiae*, R. Br.
- V. tobacco yellow dwarf
    - Hill, A.V. and M. Mandryk, 1954
- N. benavidesii*, Goodspeed
- V. tobacco mosaic
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
- N. benthamiana*, Domin
- V. prunus A \*
    - Fulton, Robert W., 1957
  - V. prunus B \*
    - Fulton, Robert W., 1957
  - V. prunus E \*
    - Fulton, Robert W., 1957
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. tobacco mosaic
    - Adsuar, J. and L. Lopez Matos, 1955
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1947, 1954
- N. bigelovii*, S. Wats.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Adsuar, J. and L. Lopez Matos, 1955
    - Diachun, Stephen and W.D. Valleau, 1954
    - Holmes, F.O., 1934, 1946
    - Stover, R.H., 1951
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954
  - V. tomato spotted wilt
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. bigelovii* var. *multivalvis*, Gray \*
- V. potato Y
    - Roque, Arturo and Jose Adsuar, 1941
  - V. turnip crinkle
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip rosette \*
    - Broadbent, L. and G.D. Heathcote, 1958
- N. bigelovii* var. *quadrivalvis*, Pursh \*
- V. cucumber mosaic
    - Price, W.C., 1940, 1941
  - V. potato Y
    - Roque, Arturo and Jose Adsuar, 1941
- N. bigelovii* var. *quadrivalvis* x *N. glutinosa*, L.
- V. tobacco mosaic
    - Holmes, F.O., 1934
- N. bigelovii* var. *quadrivalvis* x *N. sanderae*, W. Wats.
- V. tobacco mosaic
    - Holmes, F.O., 1934
- N. bigelovii* var. *quadrivalvis* x *N. tabacum*, L.
- V. tobacco mosaic
    - Holmes, F.O., 1934
- N. bonariensis*, Lehm.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Adsuar, J. and L. Lopez Matos, 1955
    - Diachun, Stephen and W.D. Valleau, 1954
    - Holmes, Francis O., 1946
  - V. tobacco streak
    - Diachun, Stephen and W.D. Valleau, 1954

- N. calyciflora* \*  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. caudigera*, Phil.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- N. caudigera* x *N. acuminata*, Hook.  
 V. tobacco mosaic  
 Holmes, F. O., 1934
- N. chinensis*, Fisch.  
 V. chilli (pepper) mosaic  
 Dale, W. T., 1954  
 V. tobacco mosaic  
 Ferguson, I. A. C., 1951  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. clevelandi*, A. Gray  
 V. beet mosaic  
 Bennett, C. W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, F. O., 1934, 1946  
 V. tobacco ring spot  
 Wingard, S. A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1947, 1954
- N. cordifolia*, Phil.  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. corymbosa*, Remy  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. debneyi*, Domin  
 V. potato M \*  
 Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. digluta*, Clausen & Goodspeed \*  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- N. digluta* x *N. tabacum*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 Price, W. C. and S. B. Fenne, 1951  
 V. tobacco necrosis  
 Price, W. C., 1938  
 V. tobacco ring spot  
 Tall, M. G., W. C. Price and Kenneth Wertman, 1949  
 V. tobacco ring spot no. 2  
 Tall, M. G., W. C. Price and Kenneth Wertman, 1949
- N. excelsior*, Black  
 V. tobacco yellow dwarf  
 Hill, A. V. and M. Mandryk, 1954
- N. exigua*, Wheeler  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. forgetiana*, Hort. Sand. ex Hemsl.  
 V. rose mosaic  
 Fulton, Robert W., 1952
- N. fragrans*, Hook.  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. glauca*, Graham  
 V. beet curly top  
 Bennett, C. W., 1934, 1937  
 Bennett, C. W. and Aziz Tanrisever, 1957  
 Costa, A. S., 1952  
 Giddings, N. J., 1944  
 Severin, Henry H. P., 1934, 1939  
 V. cucumber mosaic  
 Hoggan, Isme A., 1927  
 Johnson, J., 1926, 1927  
 Nariani, T. K. and Nirmaljit Singh, 1952  
 Price, W. C., 1941  
 V. datura distortion mosaic  
 Capoor, S. P. and P. M. Varma, 1952  
 V. dodder latent mosaic  
 Bennett, C. W., 1944, 1949  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. nicotiana glauca light green mosaic \*  
 McKinney, H. H., 1929  
 V. petunia mosaic  
 Johnson, J., 1926, 1927  
 V. potato stem mottle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Hoggan, Isme A., 1927  
 V. potato Y  
 Hoggan, Isme A., 1927  
 Johnson, James, 1927  
 V. potato yellow dwarf  
 Black, L. M., 1938  
 V. red currant ring spot  
 Klessner, P. J., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco green mosaic  
 McKinney, H. H., 1929  
 V. tobacco leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Allard, H. A., 1917  
 Diachun, Stephen and W.D. Valleau, 1954  
 Doolittle, S. P. and F. S. Beecher, 1942  
 Hoggan, Isme A., 1927  
 Holmes, F. O., 1934, 1946  
 Jensen, J. H., 1933  
 Johnson, J., 1926, 1927  
 Keener, Paul D., 1954  
 McKinney, H. H., 1928, 1929, 1935, 1943, 1952  
 V. tobacco ring spot  
 Grogan, R. G. and W. C. Schnathorst, 1955  
 Smith, Kenneth M., 1931  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1947, 1954  
 V. tobacco yellow dwarf  
 Hill, A. V., 1950  
 Hill, A. V. and M. Mandryk, 1954  
 V. tomato big bud  
 Hill, A. V. and M. Mandryk, 1954  
 V. tomato spotted wilt  
 Gardner, M. W., C. M. Tompkins and O. C. Whipple, 1935  
 Smith, Kenneth M., 1932
- N. glauca* x *N. langsdorffii*, Weinm.  
 V. tobacco mosaic  
 Holmes, F. O., 1934
- N. glutinosa*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. apple mosaic  
 Yarwood, C. E., 1955  
 V. arabis mosaic  
 Smith, Kenneth M. and Roy Markham, 1944

## Nicotiana glutinosa, L. (cont.)

- V. atropa belladonna mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. beet curly top  
Bennett, C.W. and A.S. Costa, 1949  
Bennett, C.W. and Aziz Tanrisever, 1957  
Costa, A.S., 1952  
Fulton, Robert W., 1955  
Giddings, N.J., 1944, 1947, 1954
- V. beet ring spot \*  
Harrison, B.D., 1957
- V. cabbage black ring spot  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1937, 1938
- V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1940, 1941
- V. carnation ring spot  
Kassanis, B., 1955
- V. chilli (pepper) mosaic  
Dale, W.T., 1954  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
- V. chilli veinbanding  
Simons, John N., 1956
- V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
- V. chrysanthemum latent \*  
Hollings, M., 1957
- V. crucifer ring spot \*  
Smith, Kenneth M., 1935
- V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Ainsworth, G.C., 1935, 1940  
Anderson, C.W., 1951, 1955  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951, 1953  
Berkeley, G.H. and J.H. Tremaine, 1954  
Bhargava, K.S., 1951  
Black, L.M. and W.C. Price, 1940  
Bridgmon, G.H. and J.C. Walker, 1952  
Costa, A.S., 1944  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Fulton, Robert W., 1941  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Hoggan, Isme A., 1927, 1935  
Johnson, J., 1926, 1927  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1934, 1941  
Roberts, Daniel A., 1952  
Silberschmidt, K., 1955  
Sill, W.H., Jr. and J.C. Walker, 1952  
Simons, John N., 1955, 1957  
Smith, Kenneth M., 1935  
Storey, I.F., 1939  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
- V. delphinium ring spot  
Severin, Henry H.P. and R.C. Dickson, 1942
- V. dodder latent mosaic  
Bennett, C.W., 1949
- V. eggplant mosaic  
Dale, W.T., 1954  
Ferguson, I.A.C., 1951
- V. henbane mosaic  
Hamilton, Marion A., 1932  
Hollings, M., 1955
- V. lily ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. lovage mosaic  
Smith, Kenneth M. and Roy Markham, 1944
- V. lucerne mosaic  
Berkeley, G.H., 1947  
Black, L.M. and W.C. Price, 1940  
Dykstra, T.P., 1939  
Houston, Byron R. and John W. Oswald, 1953  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Oswald, John W., 1950

## N. glutinosa, L. (cont.)

- V. lucerne mosaic  
Pierce, W.H., 1934  
Severin, Henry H.P., 1942  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1953
- V. lucerne witches' broom  
Helms, Katie, 1957
- V. nicotiana glutinosa mosaic \*  
Allard, H.A., 1916  
Fernow, Karl Hermann, 1925
- V. nicotiana glutinosa root necrosis \*  
Cetas, Robert C. and A. Frank Ross, 1952
- V. petunia mosaic  
Johnson, J., 1926, 1927
- V. physalis pubescens mosaic \*  
Walker, M.N., 1925
- V. potato A  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- V. potato aucuba mosaic  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Black, L.M. and W.C. Price, 1940  
Dykstra, T.P., 1939
- V. potato leaf roll  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- V. potato stem mottle  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. potato X  
Ainsworth, G.C., 1933, 1934  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Black, L.M. and W.C. Price, 1940  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
Fernow, Karl Hermann, 1925  
Fulton, Robert W., 1941  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Larson, R.H., 1944, 1947  
Mathews, R.E.F., 1949  
Roberts, Daniel A., 1952  
Timian, Roland G., W.J. Hooker and C.E. Peterson, 1955  
Thompson, A.D., 1956  
Vasudeva, R. Sahai and T.B. Lal, 1944
- V. potato Y  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C. and B. Kassanis, 1951  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Corbett, M.K., 1955  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Hutton, E.M. and J.W. Peak, 1952  
Johnson, James, 1927  
Koch, K.L., 1933  
Peterson, Paul D. and H.H. McKinney, 1938  
Roque, Arturo and Jose Adsuar, 1941  
Ross, A. Frank, 1948, 1949, 1950, 1953  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Vasudeva, R. Sahai and T.B. Lal, 1945  
Watson, Marion A., 1956
- V. potato yellow dwarf  
Black, L.M., 1938
- V. radish mosaic  
Tompkins, C.M., 1939
- V. ranunculus mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. raspberry Scottish leaf curl  
Cadman, C.H., 1956
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
- V. red currant ring spot  
Klessner, P.J., 1951
- V. rose mosaic  
Fulton, Robert W., 1952
- V. sweet potato mosaic  
Elmer, O.H., 1957

- Nicotiana glutinosa*, L. (cont.)
- V. tobacco bergerac ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
  - V. tobacco broken ring spot  
Smith, Kenneth M. and Roy Markham, 1944
  - V. tobacco etch  
Anderson, C.W., 1954  
Fulton, Robert W., 1941  
Holmes, Francis O., 1942, 1946
  - V. tobacco leaf curl  
Pal, B.P. and R.K. Tandon, 1937  
Vasudeva, R.S. and J. Sam Raj, 1948
  - V. tobacco mosaic  
Adsuar, J. and L. Lopez Matos, 1955  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Anderson, C.W. and M.K. Corbett, 1957  
Bawden, F.C. and F.M. Roberts, 1948  
Berkeley, G.H., 1951  
Best, Rupert J. and Geoffrey Samuel, 1936  
Boyle, John S. and David C. Wharton, 1956, 1957  
Caldwell, John, 1932  
Conover, Robert A. and Robert W. Fulton, 1953  
Costa, A.S., 1944  
Cox, C.E. and L.O. Weaver, 1950  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
Diachun, Stephen and W.D. Valleau, 1954  
Doering, G.R., W.C. Price and S.B. Fenne, 1957  
Doolittle, S.P. and F.S. Beecher, 1942  
Dykstra, T.P., 1939  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1929, 1934, 1936, 1941, 1946  
Jensen, J.H., 1933, 1936, 1937  
Johnson, J., 1926, 1927  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
Kunkel, L.O., 1932  
McKinney, H.H., 1935, 1943, 1952  
Nagaich, B.B. and H.H. Thornberry, 1957  
Nolla, J.A.B., 1934  
Norval, I.P., 1938  
Peterson, Paul D. and H.H. McKinney, 1938  
Pierce, W.H., 1934  
Price, W.C. and S.B. Fenne, 1951  
Raychaudhuri, S.P., 1952  
Roberts, Daniel A., 1952  
Sheffield, F.M.L., 1936  
Siegel, Albert and Sam G. Wildman, 1954  
Smith, Kenneth M., 1935  
Spencer, E.L., 1935  
Stover, R.H., 1951  
Walker, M.N., 1924, 1925  
Walters, H.J., 1952  
Weber, Paul V.V., 1951  
Woods, M.W. and Richard V. Eck, 1948
  - V. tobacco mottle  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tobacco necrosis  
Bawden, F.C. and B. Kassanis, 1947  
Kassanis, B., 1949, 1955  
Price, W.C., 1938  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
Price, W.C. and Ralph W.G. Wyckoff, 1939
  - V. tobacco ring spot  
Anderson, C.W., 1954  
Benedict, W.G., 1955  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cooper, W.E., 1949  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fromme, F.D., S.A. Wingard and C.N. Priode, 1927  
Fulton, Robert W., 1941  
Grogan, R.G., Roy Bardin and W.C. Schnathorst, 1954  
Grogan, R.G. and W.C. Schnathorst, 1955  
Pierce, W.H., 1934  
Pound, Glenn S., 1949
  - N. glutinosa*, L. (cont.)
  - V. tobacco ring spot  
Wingard, S.A., 1928
  - V. tobacco ring spot no. 2  
Hildebrand, E.M., 1942  
Price, W.C., 1936
  - V. tobacco streak  
Diachun, Stephen and W.D. Valleau, 1954  
Fulton, Robert W., 1941  
Johnson, J., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. tobacco vein distorting  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tobacco yellow dwarf  
Hill, A.V., 1950  
Hill, A.V. and M. Mandryk, 1954
  - V. tomato aspermy  
Blencowe, J.W. and John Caldwell, 1949  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
Hollings, M., 1955  
Ocfemia, G.O., 1956  
Wilkinson, John, 1952
  - V. tomato big bud  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954
  - V. tomato black ring  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato bunchy top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato bushy stunt  
Bawden, F.C. and F.M. Roberts, 1948  
Smith, Kenneth M., 1935  
Steere, Russell L., 1953
  - V. tomato ring spot  
Bennett, C.W., 1944  
Varney, E.H. and J. Duain Moore, 1952
  - V. tomato shoestring \*  
Doering, G.R., W.C. Price and S.B. Fenne, 1957
  - V. tomato spotted wilt  
Ainsworth, G.C., 1933  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Berkeley, G.H., 1935  
Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
Ferguson, I.A.C., 1951  
Gardner, M.W. and O.C. Whipple, 1934  
Holmes, Francis O., 1948  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
Milbrath, J.A., 1939  
Norris, D.O., 1951  
Sakimura, K., 1940  
Shapovalov, M., 1934  
Smith, Kenneth M., 1932  
Snyder, W.C. and H. Rex Thomas, 1936  
Whipple, O.C., 1936
  - V. tomato V-52-1  
Miller, Patrick M., 1953
  - V. tropaeolum mosaic  
Silberschmidt, Karl, 1953
  - V. tropaeolum ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tulip white streak  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. turnip mosaic  
Bennett, C.W., 1944  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
Hoggan, I.A. and J. Johnson, 1935  
LeBeau, Francis J. and J.C. Walker, 1945  
Pound, Glenn S., 1948  
Pound, Glenn S. and Lewis G. Weathers, 1953  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. vaccinium false blossom  
Kunkel, L.O., 1945
  - V. wild cucumber mosaic \*  
Fernow, Karl Hermann, 1925
  - N. glutinosa* x *N. langsdorffii*, Weinm.
  - V. tobacco mosaic  
Holmes, F.O., 1934

- Nicotiana glutinosa*, L. x *N. tabacum*, L.  
 V. tobacco mosaic  
 Fulton, Robert W., 1941
- N. goodspeedii*, Wheeler  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. gossei*, Domin  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1947, 1954  
 V. tobacco yellow dwarf  
 Hill, A.V. and M. Mandryk, 1954
- N. knightiana*, Goodspeed  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. langsdorffii*, Weinm.  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. crucifer ring spot \*  
 Smith, Kenneth M., 1935  
 V. cucumber mosaic  
 Price, W.C., 1934  
 Smith, Kenneth M., 1935  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. lucerne mosaic  
 Price, W.C., 1940  
 Severin, Henry H.P., 1942  
 V. potato Y  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Smith, Kenneth M. and R.W.G. Dennis, 1940  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco green mosaic  
 Peterson, Paul D. and H.H. McKinney, 1938  
 V. tobacco mosaic  
 Ainsworth, G.C., 1937  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, F.O., 1929, 1934, 1936, 1946  
 Jensen, J.H., 1933, 1936  
 Kunkel, L.O., 1932, 1934  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Stover, R.H., 1951  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Fromme, F.D., S.A. Wingard and C.N. Priode, 1927  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1936  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato bushy stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Smith, Kenneth M., 1935  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- N. langsdorffii* x *N. sanderae*, W. Wats.  
 V. tobacco mosaic  
 Holmes, F.O., 1934
- N. linearis*, Phil.  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. longiflora*, Cav.  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, F.O., 1934, 1946  
 Stover, R.H., 1951  
 Weber, Paul V.V., 1951  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. longiflora* x *N. alata*, Link & Otto  
 V. tobacco mosaic  
 Weber, Paul V.V., 1951
- N. maritima*, Wheeler  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco yellow dwarf  
 Hill, A.V. and M. Mandryk, 1954
- N. megalosiphon*, Heurck & Meull.  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1947, 1954
- N. miersii*, Remy  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1947, 1954
- N. multivalvis*, Lindl.  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. tobacco mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Wingard, S.A., 1928  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S. and Lewis G. Weathers, 1953  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. nesophila*, I.M. Johnston  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954
- N. noctiflora*, Hook.  
 V. potato Y  
 Smith, Kenneth M. and R.W.G. Dennis, 1940
- N. nudicaulis*, S. Wats.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. occidentalis*, Wheeler  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954



- Nicotiana otophora*, Griseb.  
 V. potato stem mottle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. palmeri*, A. Gray  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, F.O., 1934, 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. paniculata*, L.  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valteau, 1954  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, F.O., 1934, 1946  
 Jensen, J.H., 1933  
 Kunkel, L.O., 1932  
 Woods, M.W. and Richard V. Eck, 1948  
 V. tobacco ring spot  
 Fromme, F.D., S.A. Wingard and C.N. Priode, 1927  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- N. paniculata* x *N. rustica*, L.  
 V. tobacco mosaic  
 Holmes, F.O., 1934
- N. pauciflora*, Remy  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. plumbaginifolia*, Viv.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1956, 1957  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. purpurea* \*  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. quadrivalvis*, Pursh  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- N. raimondii*, Macbride  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. repanda*, Willd.  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. cucumber mosaic  
 Nienow, Inez, 1948  
 V. nicotiana glutinosa root necrosis \*  
 Cetas, Robert C. and A. Frank Ross, 1952  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945
- N. rotundifolia*, Lindl.  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. rusbyi*, Britton, ex Rusby  
 V. tobacco mosaic  
 Kunkel, L.O., 1932
- N. rustica*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Johnson, Folke, 1941  
 Kunkel, L.O., 1930  
 Raymer, W.B., 1956  
 Self, R.L. and H.M. Darling, 1949  
 Younkin, S.G., 1943  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1952  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 V. beet curly top  
 Fulton, Robert W., 1955  
 Lackey, C.F., 1929  
 Severin, Henry H.P., 1929  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Govier, D.A., 1957  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. henbane mosaic  
 Bradley, R.H.E., 1952  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Oswald, John W., 1950  
 Price, W.C., 1940

- Nicotiana rustica*, L. (cont.)
- V. lucerne mosaic
    - Thomas, H. Rex, 1951
    - Zaumeyer, W. J., 1953
  - V. lucerne witches' broom
    - Helms, Katie, 1957
  - V. petunia mosaic
    - Johnson, J., 1926, 1927
  - V. potato leaf roll
    - Webb, R. E., R. H. Larson and J. C. Walker, 1952
  - V. potato stunt
    - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
  - V. potato X
    - Larson, R. H., 1943, 1944, 1947
    - Larson, R. H. and R. C. Ladeburg, 1949
    - Thompson, A. D., 1956
    - Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955
    - Vasudeva, R. Sahai and T. B. Lal, 1944
  - V. potato Y
    - Johnson, E. M., 1930
    - Johnson, James, 1927
    - Koch, K. L., 1933
    - Oswald, John W., 1948
    - Roque, Arturo and Jose Adsuar, 1941
    - Sakimura, K., 1953
    - Smith, Kenneth M. and R. W. G. Dennis, 1940
    - Vasudeva, R. Sahai and T. B. Lal, 1945
  - V. potato yellow dwarf
    - Black, L. M., 1938, 1940, 1943
    - Hougas, R. W., 1951
    - Price, W. C. and L. M. Black, 1941
    - Younkin, S. G., 1943
  - V. raspberry Scottish leaf curl
    - Cadman, C. H., 1956
    - Harrison, B. D., 1958
    - Lister, R. M., 1958
  - V. raspberry yellow dwarf \*
    - Harrison, B. D., 1958
    - Lister, R. M., 1958
  - V. red currant ring spot
    - Klessner, P. J., 1951
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. sweet potato mosaic
    - Elmer, O. H., 1957
  - V. tobacco broad ring spot
    - Johnson, James and Robert W. Fulton, 1942
  - V. tobacco coarse etch
    - Johnson, E. M., 1930
  - V. tobacco etch
    - Holmes, Francis O., 1946
    - Johnson, E. M., 1930
  - V. tobacco green mosaic
    - Peterson, Paul D. and H. H. McKinney, 1938
  - V. tobacco leaf curl
    - Pal, B. P. and R. K. Tandon, 1937
  - V. tobacco mosaic
    - Allard, H. A., 1914-15, 1916
    - Boyle, John S. and David C. Wharton, 1956, 1957
    - Caldwell, John, 1932
    - Das, C. R. and S. P. Raychaudhuri, 1953
    - Diachun, Stephen and W. D. Valleau, 1954
    - Doolittle, S. P. and F. S. Beecher, 1942
    - Fernow, Karl Hermann, 1925
    - Holmes, Francis O., 1929, 1934, 1946
    - Jensen, J. H., 1933
    - Johnson, E. M., 1930
    - Johnson, J., 1926, 1927
    - Kunkel, L. O., 1932
    - McKinney, H. H., 1935
    - Peterson, Paul D. and H. H. McKinney, 1938
    - Stover, R. H., 1951
  - V. tobacco necrosis
    - Price, W. C., 1938
    - Price, W. C., Frank P. McWhorter and Betty H. Steranka, 1950
  - V. tobacco ring spot
    - Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954
    - Grogan, R. G. and W. C. Schnathorst, 1955
    - Johnson, E. M., 1930
    - Pound, Glenn S., 1949
    - Wingard, S. A., 1928
  - N. *rustica*, L. (cont.)
    - V. tobacco ring spot no. 2
      - Hildebrand, E. M., 1941, 1942
    - V. tobacco streak
      - Diachun, Stephen, 1947
      - Diachun, Stephen and W. D. Valleau, 1950, 1954
      - Johnson, J., 1936
      - Price, W. C. and L. M. Black, 1941
      - Thomas, H. Rex and W. J. Zaumeyer, 1950
    - V. tobacco yellow dwarf
      - Hill, A. V. and M. Mandryk, 1954
    - V. tomato aspermy
      - Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
      - Hollings, M., 1955
    - V. tomato big bud
      - Helms, Katie, 1957
    - V. tomato black ring
      - Harrison, B. D., 1958
    - V. tomato sheostring \*
      - Doering, G. R., W. C. Price and S. B. Fenne, 1957
    - V. tomato spotted wilt
      - Black, L. M., M. K. Brakke and A. E. Vatter, 1952
      - Gardner, M. W. and O. C. Whipple, 1934
      - Smith, Kenneth M., 1932
      - Tompkins, C. M. and M. W. Gardner, 1934
    - V. turnip crinkle
      - Lister, R. M., 1958
    - V. turnip mosaic
      - LeBeau, Francis J. and J. C. Walker, 1945
      - Pound, Glenn S. and Lewis G. Weathers, 1953
      - Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
    - V. vaccinium false blossom
      - Kunkel, L. O., 1945
  - N. *rustica* var. *humulis*, Schrank \*
    - V. delphinium ring spot
      - Severin, Henry H. P. and R. C. Dickson, 1942
    - V. radish mosaic
      - Tompkins, C. M., 1939
  - N. *rustica* var. *jamaicensis* \*
    - V. dodder latent mosaic
      - Bennett, C. W., 1944
    - V. potato yellow dwarf
      - Black, L. M., 1938
    - V. tobacco ring spot
      - Wingard, S. A., 1928
  - N. *rustica* var. *pumila* \*
    - V. dodder latent mosaic
      - Bennett, C. W., 1944
    - V. potato yellow dwarf
      - Black, L. M., 1938
  - N. *sanderæ*, W. Wats. (N. *alata*, Link & Otto x N. *forgetiana*, Sander)
    - V. chilli (pepper) mosaic
      - Dale, W. T., 1954
    - V. cucumber mosaic
      - Wellman, F. L., 1935
    - V. lucerne mosaic
      - Price, W. C., 1940
    - V. potato X
      - Smith, J. Henderson, 1928
    - V. potato yellow dwarf
      - Black, L. M., 1938
    - V. tobacco etch
      - Holmes, Francis O., 1946
    - V. tobacco mosaic
      - Holmes, Francis O., 1929, 1934, 1946
      - Stover, R. H., 1951
    - V. tobacco ring spot
      - Wingard, S. A., 1928
    - V. tomato spotted wilt
      - Gardner, M. W. and O. C. Whipple, 1934
    - V. turnip mosaic
      - Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
  - N. *sanderæ* x N. *langsдорffii*, Weinm.
    - V. tobacco mosaic
      - Holmes, F. O., 1934
  - N. *sanderæ* (mottling) x N. *sanderæ* (necrotic)
    - V. tobacco mosaic
      - Holmes, F. O., 1934

- Nicotiana setchellii*, Goodspeed  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. solanifolia*, Walp.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- N. spp.*  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. tobacco etch  
 Bawden, F.C. and B. Kassanis, 1941  
 V. tobacco streak  
 Fulton, Robert W., 1948
- N. stocktoni*, Brandegee, in *Erythraea*  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954
- N. suaveolens*, Lehm.  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, F.O., 1934  
 Kunkel, L.O., 1932  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco yellow dwarf  
 Hill, A.V. and M. Mandryk, 1954  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- N. sylvestris*, Speg. & Comes  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Nienow, Inez, 1948  
 Wellman, F.L., 1935  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. lucerne mosaic  
 Dykstra, T.P., 1939  
 Price, W.C., 1940  
 V. potato A  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 Dykstra, T.P., 1939  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato aucuba mosaic  
 Dykstra, T.P., 1939  
 V. potato X  
 Dennis, R.W.G., 1939  
 Vasudeva, R. Sahai and T.B. Lal, 1944  
 V. potato Y  
 Dykstra, T.P., 1939  
 Vasudeva, R. Sahai and T.B. Lal, 1945  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco green mosaic  
 Peterson, Paul D. and H.H. McKinney, 1938  
 V. tobacco green ring spot \*  
 Price, W.C., 1936  
 V. tobacco leaf curl  
 Vasudeva, R.S. and J. Sam Raj, 1948  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1956, 1957  
 Conover, Robert A. and Robert W. Fulton, 1953  
 Diachun, Stephen and W.D. Valteau, 1954  
 Doolittle, S.P. and F.S. Beecher, 1942
- N. sylvestris*, Speg. & Comes (cont.)  
 V. tobacco mosaic  
 Dykstra, T.P., 1939  
 Fulton, Robert W., 1951  
 Holmes, F.O., 1934, 1941, 1946  
 Jensen, J.H., 1933, 1936, 1937  
 Kunkel, L.O., 1932, 1934  
 McKinney, H.H., 1935, 1952  
 Norval, I.P., 1938  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Price, W.C. and S.B. Fenne, 1951  
 Raychaudhuri, S.P., 1952  
 Siegel, Albert and Sam G. Wildman, 1954  
 Stover, R.H., 1951  
 Weber, Paul V.V., 1951  
 V. tobacco necrosis  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Fromme, F.D., S.A. Wingard and C.N. Priode, 1927  
 Price, W.C., 1936  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1936  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valteau, 1954  
 V. tobacco vein distorting  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco yellow mosaic  
 McKinney, H.H., 1935  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato shoestring \*  
 Doering, G.R., W.C. Price and S.B. Fenne, 1957  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. tabacum*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 V. anemone latent \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. apple mosaic  
 Fulton, Robert W., 1956  
 Yarwood, C.E., 1955, 1957  
 Yarwood, C.E. and H.E. Thomas, 1954  
 V. arabis mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. atropa belladonna mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. barley stripe mosaic  
 McKinney, H.H., 1951  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1952  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 V. beet curly top  
 Bennett, C.W., 1934, 1937, 1944, 1951  
 Bennett, C.W. and A.S. Costa, 1949  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Costa, A.S., 1952  
 Fulton, Robert W., 1955  
 Giddings, N.J., 1938, 1944, 1947, 1954  
 Lackey, C.F., 1941  
 Price, W.C., 1943  
 Severin, Henry H.P., 1929  
 V. beet mosaic  
 Hoggan, Isme A., 1934  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet ring spot \*  
 Harrison, B.D., 1957

*Nicotiana tabacum*, L. (cont.)

- V. brome mosaic  
McKinney, H. H., 1944, 1953
- V. cabbage black ring spot  
Bawden, F. C., Brenda M. G. Hamlyn and Marion A. Watson, 1954  
Broadbent, L., 1954  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Hamlyn, Brenda M. G., 1953  
Hollings, M., 1957  
Pound, Glenn S., 1952  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1937, 1938
- V. cabbage ring necrosis  
Larson, R. H. and J. C. Walker, 1940, 1941
- V. carnation ring spot  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
- V. carrot motley dwarf  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. cauliflower mosaic  
Broadbent, L., 1954  
Pound, Glenn S., 1952
- V. celery mosaic  
Doolittle, S. P., 1931  
Doolittle, S. P. and F. L. Wellman, 1934  
Nolla, J. A. B., 1934  
Price, W. C., 1936
- V. chilli (pepper) mosaic  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
Jha, Ashrafi and S. P. Raychaudhuri, 1956
- V. chilli veinbanding  
Simons, John N., 1956
- V. chrysanthemum latent \*  
Hollings, M., 1957
- V. clover big vein  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. crucifer ring spot \*  
Smith, Kenneth M., 1935
- V. cucumber green mottle mosaic  
Ainsworth, G. C., 1935  
Storey, I. F., 1939  
Vasudeva, R. S. and T. K. Nariani, 1952
- V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Ainsworth, G. C., 1938, 1940  
Anderson, C. W., 1951, 1955  
Bennett, C. W., 1944  
Berkeley, G. H., 1951, 1953  
Berkeley, G. H. and J. H. Tremaine, 1954  
Bhargava, K. S., 1951  
Black, L. M. and W. C. Price, 1940  
Bridgmon, G. H. and J. C. Walker, 1952  
Brierley, Philip, 1939, 1940, 1951  
Brierley, Philip and S. P. Doolittle, 1940  
Burnett, G., 1934  
Costa, A. S., 1944  
Diachun, Stephen, 1952  
Doncaster, J. P. and B. Kassanis, 1946  
Doolittle, S. P. and W. J. Zaumeyer, 1952, 1953  
Dykstra, T. P., 1939  
Fulton, Joseph P., 1950  
Fulton, Robert W., 1941, 1953  
Govier, D. A., 1957  
Hagedorn, D. J. and J. C. Walker, 1954  
Harrison, B. D., 1958  
Harter, L. L., 1936, 1938  
Hoggan, Isme A., 1927, 1930, 1933, 1934, 1935  
Johnson, E. M., 1930  
Johnson, J., 1926, 1927, 1933  
Kassanis, B., 1947  
Larsh, Howard W. and J. R. Shay, 1945  
Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
Magee, C. J. P., 1940  
McKinney, H. H., 1943  
Nariani, T. K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Nolla, J. A. B., 1934  
Pound, Glenn S. and J. C. Walker, 1948  
Price, W. C., 1934, 1936, 1937, 1941  
Silberschmidt, K., 1955  
Sill, Webster H., Jr., 1951  
Sill, W. H., Jr. and J. C. Walker, 1952

*N. tabacum*, L. (cont.)

- V. cucumber mosaic  
Simons, John N., 1955, 1957  
Smith, Floyd F. and Philip Brierley, 1944  
Smith, Kenneth M., 1935  
Valleau, W. D., 1935  
Wellman, F. L., 1934, 1935  
Whipple, O. C. and J. C. Walker, 1938, 1941  
Wilkinson, R. E., 1953
- V. datura distortion mosaic  
Capoor, S. P. and P. M. Varma, 1952
- V. delphinium disease \*  
Valleau, W. D., 1932
- V. delphinium ring spot  
Severin, Henry H. P. and R. C. Dickson, 1942
- V. dodder latent mosaic  
Bennett, C. W., 1944, 1949
- V. eggplant mosaic  
Dale, W. T., 1954
- V. elm mosaic  
Moore, J. Duain and E. H. Varney, 1954  
Varney, E. H. and J. Duain Moore, 1952
- V. eryngium chlorosis \*  
Johnson, James, 1946
- V. eryngium yellow mosaic \*  
Johnson, James and Edith M. Hein, 1948
- V. henbane mosaic  
Bawden, F. C., Brenda M. G. Hamlyn and Marion A. Watson, 1954  
Bradley, R. H. E., 1952  
Doncaster, J. P. and B. Kassanis, 1946  
Hamilton, Marion A., 1932  
Sheffield, F. M. L., 1936, 1938  
Watson (Hamilton), Marion A., 1937
- V. hydrangea ring spot  
Brierley, Philip and Floyd F. Smith, 1952
- V. iris ring spot \*  
Travis, R. V., 1957
- V. jatropha mosaic \*  
Bird, Julio, 1957
- V. laburnum vein mosaic \*  
Brierley, Philip and Floyd F. Smith, 1954
- V. lovage mosaic  
Smith, Kenneth M. and Roy Markham, 1944
- V. lucerne mosaic  
Berkeley, G. H., 1947  
Black, L. M. and W. C. Price, 1940  
Houston, Byron R. and John W. Oswald, 1951, 1953  
Johnson, E. M., 1946  
Kreitlow, K. W. and W. C. Price, 1948, 1949  
Oswald, John W., 1950  
Pierce, W. H., 1934  
Richardson, D. E. and T. W. Tinsley, 1956  
Severin, Henry H. P., 1942  
Swenson, K. G., 1952  
Thomas, H. Rex, 1951, 1953  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
Zaumeyer, W. J., 1938, 1953
- V. lucerne witches' broom  
Helms, Katie, 1957
- V. nicotiana glauca light green mosaic \*  
McKinney, H. H., 1929
- V. nicotiana glauca mild dark green mosaic \*  
McKinney, H. H., 1929
- V. nicotiana glauca yellow mosaic \*  
McKinney, H. H., 1929
- V. nicotiana glutinosa mosaic \*  
Walker, M. N., 1925
- V. pea die back \*  
Zaumeyer, W. J., 1939
- V. pea stem streak \*  
Zaumeyer, W. J., 1939
- V. pea streak  
Kim, Woon S. and D. J. Hagedorn, 1957
- V. peach yellow bud mosaic  
Karle, Harry P., 1957  
Yarwood, C. E., 1956
- V. petunia mosaic  
Johnson, J., 1926, 1927
- V. plantago mosaic  
McKinney, H. H., 1943
- V. potato A  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

## Nicotiana tabacum, L. (cont.)

- V. potato A  
Bawden, F.C., 1936  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Dykstra, T.P., 1936, 1939  
Dykstra, T.P. and W.C. Whitaker, 1938  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- V. potato aucuba mosaic  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Black, L.M. and W.C. Price, 1940  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1939
- V. potato leaf roll  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- V. potato necrotic \*  
Schultz, E.S. and W.P. Raleigh, 1933
- V. potato rosette  
Hutton, E.M. and C.E.W. Oldaker, 1949
- V. potato stem mottle  
Harrison, B.D., 1957  
Van der Want, J.P.H., 1955
- V. potato stunt  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. potato witches' broom  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Young, P.A., 1929
- V. potato X  
Ainsworth, G.C., 1933, 1934  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bawden, F.C., 1936  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Black, L.M. and W.C. Price, 1940  
Blodgett, F.M., 1927  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1939  
Folsom, Donald and Reiner Bonde, 1937  
Fulton, Robert W., 1941  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Hollings, M., 1955  
Johnson, E.M., 1930  
Johnson, James, 1925, 1926, 1927  
Koch, K.L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R.H., 1943, 1944, 1947  
Larson, R.H. and R.C. Ladeburg, 1949  
Matthews, R.E.F., 1949  
Nolla, J.A.B., 1934  
Price, W.C., 1936  
Quanjer, H.M., 1933  
Roberts, Daniel A., 1952  
Roberts, F.M., 1948  
Smith, J. Henderson, 1928  
Smith, Kenneth M., 1930  
Thompson, A.D., 1956  
Timian, Roland G., W.J. Hooker and C.E. Peterson, 1955  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and T.B. Lal, 1944  
Walters, H.J., 1952
- V. potato Y  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C., 1936  
Bawden, F.C. and B. Kassanis, 1946, 1947, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Corbett, M.K., 1955  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Doncaster, J.P. and B. Kassanis, 1946  
Dykstra, T.P., 1936, 1939  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958

## N. tabacum, L. (cont.)

- V. potato Y  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Johnson, James, 1927  
Jones, Leon K. and C.L. Vincent, 1937  
Kassanis, B., 1942  
Koch, K.L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R.H., 1947  
Larson, R.H. and J.F. Darby, 1951  
McKinney, H.H., 1943  
Nolla, J.A.B., 1934  
Oswald, John W., 1948  
Peterson, Paul D. and H.H. McKinney, 1938  
Price, W.C., 1936  
Richardson, D.E., 1958  
Roque, Arturo and Jose Adsuar, 1941  
Ross, A. Frank, 1950, 1953  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and T.B. Lal, 1945  
Watson (Hamilton), Marion A., 1937, 1956
- V. potato yellow dwarf  
Black, L.M., 1938
- V. prunus \*  
Varney, E.H. and J. Duain Moore, 1954
- V. prunus A \*  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
- V. prunus B \*  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1956, 1957
- V. prunus E \*  
Ehlers, Clifford G. and J. Duain Moore, 1957
- V. prunus G \*  
Fulton, Robert W., 1957
- V. radish mosaic  
Tompkins, C.M., 1939
- V. ranunculus mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. raspberry Scottish leaf curl  
Cadman, C.H., 1956  
Harrison, B.D., 1957, 1958  
Lister, R.M., 1958
- V. raspberry yellow dwarf \*  
Harrison, B.D., 1958  
Lister, R.M., 1958
- V. red currant ring spot  
Klesser, P.J., 1951
- V. sunflower mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. sweet clover new \*  
Henderson, R.G., 1934
- V. sweet potato mosaic  
Elmer, O.H., 1957
- V. tobacco bergerac ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco broad ring spot  
Fulton, Robert W., 1941  
Johnson, James and Robert W. Fulton, 1940, 1942
- V. tobacco broken ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Smith, Kenneth M. and Roy Markham, 1944
- V. tobacco coarse etch  
Johnson, E.M., 1930
- V. tobacco etch  
Anderson, C.W., 1954  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Doncaster, J.P. and B. Kassanis, 1946  
Fulton, Robert W., 1941  
Holmes, Francis O., 1941, 1942, 1946  
Johnson, E.M., 1930  
Price, W.C., 1936  
Stover, R.H., 1951  
Valleau, W.D., 1935
- V. tobacco green mosaic  
Dufrenoy, J., 1933  
Peterson, Paul D. and H.H. McKinney, 1938

- Nicotiana tabacum*, L. (cont.)
- V. tobacco green ring spot \*
- Price, W.C., 1936  
Valleau, W.D., 1935
- V. tobacco leaf curl
- Bird, Julio, 1957  
Kerling, L.C.P., 1933  
Nariani, T.K., 1956  
Nariani, T.K. and P.S. Pathanian, 1953  
Pal, B.P. and R.K. Tandon, 1937  
Pruthi, Hem Singh and C.K. Samuel, 1937, 1939, 1941  
Vasudeva, R.S. and J. Sam Raj, 1948
- V. tobacco leaf curl-like disease \*
- Morgan, O.D. and H.H. McKinney, 1951
- V. tobacco leaf roll disease \*
- Goenaga, Alvaro, 1945
- V. tobacco mosaic
- Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Allard, H.A., 1914-15, 1915, 1916, 1917  
Bawden, F.C. and F.M. Roberts, 1948  
Beale, Helen P., 1933  
Bennett, C.W., 1944  
Berkeley, G.H., 1927, 1951  
Best, Rupert J. and Geoffrey Samuel, 1936  
Boyle, John S. and David C. Wharton, 1956, 1957  
Caldwell, John, 1932  
Conover, Robert A. and Robert W. Fulton, 1953  
Costa, A.S., 1944  
Cox, C.E. and L.O. Weaver, 1950  
Dale, W.T., 1954  
Das, C.R. and S.P. Raychaudhuri, 1953  
Diachun, Stephen and W.D. Valleau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Dufrenoy, J., 1933  
Fernow, Karl Hermann, 1925  
Fulton, Robert W., 1941  
Gutierrez, Mariano E., 1954  
Gutierrez, Mariano E., Julian Agati and Serapion Bayubay, 1950  
Henderson, R.G., 1950  
Hoggan, Isme A., 1927, 1934  
Holmes, F.O., 1934, 1936, 1941, 1946, 1953  
Jarrett, Phyllis H., 1930  
Jensen, J.H., 1933, 1936, 1937  
Johnson, E.M., 1930  
Johnson, Folke, 1941  
Johnson, J., 1926, 1927  
Jones, Leon K., 1940  
Kassanis, B. and Ireson W. Selman, 1947  
Kunkel, L.O., 1932  
McKinney, H.H., 1935, 1939, 1943, 1952  
McMurtrey, J.E., Jr., 1928, 1929  
Nagaich, B.B. and H.H. Thornberry, 1957  
Nolla, J.A.B., 1934  
Nollan, J.A.B., John Simon Guggenheim and Arturo Roque, 1933  
Norval, I.P., 1938  
Perez, J. Enrique, J. Adsuar and Orlando Sالا, 1956  
Peterson, Paul D. and H.H. McKinney, 1938  
Pierce, W.H., 1934  
Price, W.C., 1936  
Price, W.C. and S.B. Fenne, 1951  
Purdy, Helen A., 1927  
Quanjer, H.M., 1920, 1933  
Raychaudhuri, S.P., 1952  
Roberts, Daniel A., 1952  
Schwarze, C.A., 1914  
Sheffield, F.M.L., 1931, 1936  
Siegel, Albert and Sam G. Wildman, 1954  
Smith, J. Henderson, 1933  
Smith, Kenneth M., 1935  
Spencer, E.L., 1935, 1937  
Stover, R.H., 1951  
Stover, W.G., 1928  
Stover, W.G. and M.T. Vermillion, 1933  
Valleau, W.D., 1935  
Valleau, W.D. and E.M. Johnson, 1935, 1943  
Vanterpool, T.C., 1926  
Walker, M.N., 1926  
Walters, H.J., 1952
- N. tabacum*, L. (cont.)
- V. tobacco mosaic
- Weber, Paul V.V., 1951  
Woods, M.W. and Richard V. Eck, 1948
- V. tobacco mottle
- (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco necrosis
- Bawden, F.C. and B. Kassanis, 1947  
Bawden, F.C. and F.M. Roberts, 1948  
Frazier, Norman W., 1955  
Fulton, Robert W., 1950  
Fulton, J.P., 1952  
Kassanis, B., 1949, 1955  
Price, W.C., 1938  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
Price, W.C. and Ralph W.G. Wyckoff, 1939
- V. tobacco ring spot
- Allington, William B., 1946  
Anderson, C.W., 1954  
Benedict, W.G., 1955  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cook, A.A., 1956  
Cooper, W.E., 1949  
Dunleavy, John M., 1957  
Fenne, S.B., 1931  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fromme, F.D., S.A. Wingard and C.N. Priode, 1927  
Fulton, Robert W., 1941  
Grogan, R.G., Roy Bardin and W.C. Schnathorst, 1954  
Grogan, R.G. and W.C. Schnathorst, 1955  
Harrison, B.D., 1957  
Henderson, R.G. and S.A. Wingard, 1931  
Hoggan, I.A., 1933  
Johnson, E.M., 1930  
Kahn, Robert P. and Frances M. Latterell, 1955  
LeBeau, F.J., 1947  
McKinney, H.H., 1943  
McKinney, H.H. and E.E. Clayton, 1944  
Nolla, J.A.B., 1934  
Pierce, W.H., 1934  
Pound, Glenn S., 1949  
Price, W.C., 1936  
Roberts, Daniel A., 1952  
Rosberg, David W., 1953  
Shepherd, Robert J. and F. Ben Struble, 1956  
Smith, Kenneth M., 1929, 1935  
Starr, Chester K. and W.E. Cooper, 1944  
Steere, Russell L., 1956  
Stubbs, M.W., 1937  
Tall, M.G., W.C. Price and Kenneth Wertman, 1949  
Travis, R.V. and Philip Brierley, 1957  
Valleau, W.D., 1932, 1935, 1941  
Walters, H.J., 1952  
Wingard, S.A., 1928
- V. tobacco ring spot no. 2
- Brierley, Philip, 1954  
Hildebrand, E.M., 1941, 1942  
Price, W.C., 1936  
Tall, M.G., W.C. Price and Kenneth Wertman, 1949
- V. tobacco streak
- Costa, A.S., 1945, 1952  
Diachun, Stephen, 1947  
Diachun, Stephen and W.D. Valleau, 1950, 1954  
Fulton, Robert W., 1941, 1956  
Johnson, J., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- V. tobacco stunt \*
- Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- V. tobacco vein distorting
- (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco yellow dwarf
- Hill, A.V., 1950  
Hill, A.V. and M. Mandryk, 1954
- V. tomato aspermy
- Blencowe, J.W. and John Caldwell, 1949

- Nicotiana tabacum*, L. (cont.)
- V. tomato aspermy
    - Brierley, Philip, 1955
    - Brierley, Philip and Floyd F. Smith, 1953
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955
    - Hollings, M., 1955
    - Ocfemia, G.O., 1956
  - V. tomato big bud
    - Helms, Katie, 1957
    - Hill, A.V. and M. Mandryk, 1954
  - V. tomato black ring
    - Harrison, B.D., 1958
  - V. tomato bunchy top
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato bushy stunt
    - Smith, Kenneth M., 1935
  - V. tomato filiform leaf disease \*
    - Schwarze, C.A., 1914
  - V. tomato ring spot
    - Bennett, C.W., 1944
    - Brierley, Philip and Paul Lorentz, 1957
    - Brierley, Philip and Floyd F. Smith, 1953
    - Imle, E.P. and R.W. Samson, 1937
    - Kahn, Robert P. and Frances M. Latterell, 1955
    - Samson, R.W. and E.P. Imle, 1942
    - Varney, E.H. and J. Duain Moore, 1952
  - V. tomato sheostring \*
    - Doering, G.R., W.C. Price and S.B. Fenne, 1957
  - V. tomato spotted wilt
    - Ainsworth, G.C., 1933
    - Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934
    - Bennett, C.W., 1944
    - Berkeley, G.H., 1935
    - Best, Rupert J. and Geoffrey Samuel, 1936
    - Black, L.M., M.K. Barkke and A.E. Vatter, 1952
    - Doolittle, S.P. and C.B. Summer, 1934
    - Ferguson, I.A.C., 1951
    - Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
    - Gardner, M.W. and O.C. Whipple, 1934
    - Milbrath, J.A., 1939
    - Price, W.C., 1936
    - Sakimura, K., 1940
    - Shapovalov, M., 1934
    - Sherf, A.F., 1948
    - Smith, Kenneth M., 1931, 1932
    - Snyder, W.C. and H. Rex Thomas, 1936
    - Whipple, O.C., 1936
    - Yu, T.F., 1947
  - V. tomato V-52-1
    - Miller, Patrick M., 1953
  - V. tropaeolum mosaic
    - Silberschmidt, Karl, 1953
  - V. tropaeolum ring spot
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tulip white streak
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. turnip crinkle
    - Broadbent, L. and G.D. Heathcote, 1958
    - Lister, R.M., 1958
  - V. turnip mosaic
    - Bennett, C.W., 1944
    - Berkeley, G.H. and J.H. Tremaine, 1954
    - Berkeley, G.H. and M. Weintraub, 1952
    - Dale, W.T., 1948
    - Hoggan, Isme A., 1934
    - Hoggan, I.A. and J. Johnson, 1935
    - LeBeau, Francis J. and J.C. Walker, 1945
    - Pound, Glenn S. and Lewis G. Weathers, 1953
    - Tompkins, C.M., 1938, 1939
    - Tompkins, C.M. and H. Rex Thomas, 1938
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. vaccinium false blossom
    - Kunkel, L.O., 1945
  - V. watermelon mosaic
    - Pound, Glenn S., 1949
  - V. yam mosaic \*
    - Adsuar, J., 1955
  - N. *tabacum* var. *angustifolia*, Comes
    - V. tobacco broad ring spot
      - Johnson, James and Robert W. Fulton, 1942
  - N. *tabacum* var. *angustifolia*, Comes (cont.)
    - V. tobacco mosaic
      - Adsuar, J. and L. Lopez Matos, 1955
    - V. tomato spotted wilt
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - N. *tabacum* var. *atropurpurea*, Hort. \*
    - V. lucerne witches' broom
      - Helms, Katie, 1957
    - V. tobacco mosaic
      - Weber, Paul V.V., 1951
    - V. tobacco ring spot
      - Wingard, S.A., 1928
    - V. tobacco yellow dwarf
      - Hill, A.V. and M. Mandryk, 1954
    - V. tomato big bud
      - Helms, Katie, 1957
  - N. *tabacum* var. *atropurpureum*, Hort. \*
    - V. tomato spotted wilt
      - Norris, D.O., 1951
  - N. *tabacum* var. *auriculata* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *brasiliensis*, Comes
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *calyciflora*, L. \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *calycina* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *cavala* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *colossea* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *gigantea* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *lacerata* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *latissima*, (Mill.) Voss
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *macrophylla*, Schrank
    - V. chilli (pepper) mosaic
      - Dale, W.T., 1954
      - Ferguson, I.A.C., 1951
    - V. tobacco mosaic
      - Ainsworth, G.C., 1933
      - Kunkel, L.O., 1932
    - V. tobacco ring spot
      - Wingard, S.A., 1928
    - V. turnip mosaic
      - Dale, W.T., 1948
  - N. *tabacum* var. *microphylla* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *purpurea* \*
    - V. tobacco mosaic
      - Kunkel, L.O., 1932
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* var. *purpurea* x N. *glutinosa*, L.
    - V. tobacco mosaic
      - Holmes, F.O., 1934
  - N. *tabacum* var. *sanguinea* \*
    - V. tobacco ring spot
      - Wingard, S.A., 1928
  - N. *tabacum* x N. *glutinosa*, L.
    - V. cucumber mosaic
      - Bridgmon, G.H. and J.C. Walker, 1952
      - Sill, W.H., Jr. and J.C. Walker, 1952
    - V. datura distortion mosaic
      - Capoor, S.P. and P.M. Varma, 1952
    - V. nicotiana glutinosa mosaic \*
      - Allard, H.A., 1916
    - V. tobacco mosaic
      - Costa, A.S., 1944
      - Fulton, Robert W., 1950
      - Holmes, F.O., 1934
      - Johnson, James, 1936, 1937

- Nicotiana tabacum*, L. x *N. glutinosa*, L. (cont.)  
 V. tobacco mosaic  
 McKinney, H.H. and Robert W. Fulton, 1949  
 Walters, H.J., 1952  
 V. tobacco streak  
 Johnson, J., 1936  
 V. turnip mosaic  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
*N. tabacum* x *N. longiflora*, Cav.  
 V. tobacco mosaic  
 Weber, Paul V.V., 1951  
*N. tabacum* x *N. sylvestris*, Speg. & Comes  
 V. tobacco mosaic  
 Weber, Paul V.V., 1951  
*N. tomentosa*, Ruiz & Pav.  
 V. potato stem mottle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, Francis O., 1946  
 Weber, Paul V.V., 1951  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
*N. tomentosiformis*, Goodspeed  
 V. chilli (pepper) mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 V. potato stem mottle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, Francis O., 1946  
 Weber, Paul V.V., 1951  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
*N. trigonophylla*, Dun.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, F.O., 1934, 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*N. undulata*, Ruiz & Pav.  
 V. chilli (pepper) mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
*N. velutina*, Wheeler  
 V. chilli (pepper) mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 V. tobacco mosaic  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W.D. Valleau, 1954  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Diachun, Stephen and W.D. Valleau, 1954  
*N. wigandioides*, Koch & Fint  
 V. tobacco mosaic  
 Holmes, Francis O., 1946.
- NIEREMBERGIA* Ruiz & Pav. 1794 (Solanaceae)  
*N. frutescens*, Dur.  
 V. clover big vein  
 Black, L.M., 1945
- N. frutescens*, Dur. (cont.)  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945  
*N. hippomanica*, Miers  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- NIGELLA* ((Tourn.)) L. 1735 (Ranunculaceae)  
*N. damascena*, L.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- NITROPHILA* S. Wats. 1871 (Chenopodiaceae)  
*N. occidentalis*, S. Wats.  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928
- NOLANA* L. 1762 (Nolanaceae)  
*N. atriplicifolia*, Hort. ex D. Don  
 V. clover big vein  
 Black, L.M., 1945  
*N. lanceolata*, Miers  
 V. potato leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- NOTHOPANAX* Miq., Seem. 1866 (Araliaceae)  
*N. guilfoylei*, Merr.  
 V. panax ring spot  
 Aragaki, M. and H. Murakishi, and J.W. Hendrix, 1953
- NOTHOSCORDUM* Kunth 1843 (Liliaceae)  
*N. fragrans*, (Vent.) Kunth  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950
- ODONTOGLOSSUM* H. B. & K. 1815 (Orchidaceae)  
*O. grande*, Lindl.  
 V. orchid (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951, 1952
- OENANTHE* ((Tourn.)) L. 1735 (Umbelliferae)  
*O. sarmentosa*, Presl ex DC.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- OENOTHERA* L. 1735 (Onagraceae)  
*O. biennis*, L.  
 V. tobacco streak  
 Fulton, Robert W., 1948  
*O. hookeri*, Torr. & Gray  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
*O. spp.*  
 V. tobacco ring spot no. 2  
 Wilkinson, R.E., 1952
- ONCIDIUM* Sw. 1800 (Orchidaceae)  
*O. rogers*, Hort. \*  
 V. orchid (oncidium rogers) \*  
 Jensen, D.D. and A. Herbert Gold, 1952  
*O. spp.*  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D. and A.H. Gold, 1955
- ORNITHOGALUM* ((Tourn.)) L. 1735 (Liliaceae)  
*O. thyrsoides*, Jacq.  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944



- ORYZA L. 1735 (Gramineae)  
*O. minuta*, J. & C. Presl  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- O. sativa*, L.  
 V. barley stripe mosaic  
 Kahn, Robert P. and Ottie J. Dickerson, 1957  
 McKinney, H.H., 1951  
 V. brome mosaic  
 Kahn, Robert P. and Ottie J. Dickerson, 1957  
 V. oat pseudo-rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos Calica, 1949  
 V. rice dwarf  
 Agati, Julian A., Pedro L. Sison and Roman Abalos, 1941  
 V. rice stunt  
 Katsura, S., 1936.
- ORYZOPSIS Michx. 1803 (Gramineae)  
*O. hymenoides*, (Roem. & Schult.) Ricker  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
 Slykhuis, John T., 1954, 1955
- OXALIS L. 1737 (Oxalidaceae)  
*O. corniculata*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
*O. corniculata* var. *atropurpurea*, Planch.  
 V. beet curly top  
 Severin, Henry H.P., 1934  
*O. spp.*  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*O. stricta*, L.  
 V. beet curly top  
 Starrett, Ruth C., 1929
- PAEONIA ((Tourn.)) L. 1735 (Ranunculaceae)  
*P. officinalis*, L.  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957  
*P. spp.*  
 V. peony ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- PAMBURUS Swingle 1916 (Rutaceae)  
*P. missionis*, Swingle  
 V. citrus tristeza  
 Knorr, L.C., 1956
- PANICUM L. 1735 (Gramineae)  
*P. capillare*, L.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952, 1955  
 V. wheat striate mosaic  
 Slykhuis, J. T., 1952, 1953  
*P. dichotomiflorum*, Michx.  
 V. sugarcane mosaic  
 Brandes, E.W., 1920  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*P. hallii*, Vasey  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
*P. miliaceum*, L.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. oat pseudo-rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957
- P. miliaceum*, L. (cont.)  
 V. rice dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, John T., 1955  
*P. ramosum*, L.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*P. scribnerianum*, Nash  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
*P. virgatum*, L.  
 V. panicum mosaic \*  
 Sill, W.H., Jr., 1957  
 Sill, W.H., Jr. and R.C. Pickett, 1957
- PAPAVER Tourn. ex L. 1735 (Papaveraceae)  
*P. dubium*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*P. nudicaule*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*P. orientale*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
*P. rhoeas*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
*P. somniferum*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cabbage black ring spot  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
*P. spp.*  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- PARTHENIUM L. 1735 (Compositae)  
*P. argentatum*, A. Gray  
 V. tobacco mosaic  
 Severin, Henry H.P., 1945  
 V. tobacco ring spot  
 Severin, Henry H.P., 1945
- PARTHENOCISSUS Planch. in DC. 1887 (Vitaceae)  
*P. tricuspidata*, (Sieb. & Zucc.) Planch.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- PASPALUM L. 1759 (Gramineae)  
*P. boscianum*, Flugge  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*P. conjugatum*, Bergius  
 V. sugarcane mosaic  
 Lawas, Orencio M. and William L. Fernandez, 1949  
*P. dilatatum*, Poir.  
 V. lucerne dwarf  
 Freitag, J.H., 1951

- PASSIFLORA L. 1735 (Passifloraceae)  
*P. alba*, Link & Otto  
 V. cucumber mosaic  
 McKnight, T., 1953  
*P. caerulea*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Nattrass, R.M., 1944  
*P. edulis*, Sims  
 V. cucumber mosaic  
 McKnight, T., 1953  
 Nattrass, R.M., 1944  
*P. edulis f. flavicarpa* \*  
 V. cucumber mosaic  
 McKnight, T., 1953  
*P. foetida*, L.  
 V. cucumber mosaic  
 McKnight, T., 1953  
 V. passiflora foetida mosaic \*  
 Jensen, D.D., 1949  
*P. ligularis*, Juss.  
 V. cucumber mosaic  
 Nattrass, R.M., 1944  
*P. pfordtii*, X Hort. ex Degener  
 V. passiflora pfordtii mosaic \*  
 Jensen, D.D., 1949  
*P. suberosa*, L.  
 V. cucumber mosaic  
 McKnight, T., 1953  
*P. subpeltata*, Ort.  
 V. cucumber mosaic  
 Nattrass, R.M., 1944
- PASTINACA L. 1737 (Umbelliferae)  
*P. sativa*, L.  
 V. aster yellows  
 Severin, Henry H.P., 1932, 1934  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. celery yellow spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. datura rugose leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. tobacco ring spot no. 2  
 Wilkinson, R.E., 1952  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- PECTOCARYA DC. ex Meissn. 1840 (Boraginaceae)  
*P. pusilla*, A. Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- PELARGONIUM L'Herit. 1787 (Geraniaceae)  
*P. domesticum*, Bailey  
 V. filaree red leaf  
 Anderson, Chris W., 1952  
*P. hederaceum* \*  
 V. pelargonium leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*P. hortorum*, Bafley (X *P. zonale*, Willd.)  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P., 1939  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. pelargonium leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Jones, L.K., 1938, 1940  
 V. pelargonium mosaic  
 Jones, L.K., 1938, 1940  
*P. hortorum*, Bailey (X *P. zonale*, Willd.) (cont.)  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. tobacco necrosis  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
*P. peltatum*, Ait.  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
*P. spp.*  
 V. pelargonium leaf curl  
 McWhorter, Frank P., 1957
- PENNISETUM Rich. 1805 (Gramineae)  
*P. clandestinum*, Hochst. ex Chiov.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
*P. glaucum*, (L.) R. Br.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*P. purpureum*, Schumacher.  
 V. sugarcane chlorotic streak \*  
 Bruehl, G.W., 1953
- PENSTEMON  
 (PENTSTEMON) Mitch. 1748 (Scrophulariaceae)  
*P. barbatus*, Roth  
 V. tobacco mosaic  
 Grant, T.J., 1934  
*P. grandiflorus*, Nutt.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*P. hirsutus*, (L.) Willd.  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
*P. spp.*  
 V. cucumber mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- PERSEA Plum. ex L. 1737 (Lauraceae)  
*P. americana*, Mill.  
 V. avocado pear sun blotch  
 Horne, W.T. and E.R. Parker, 1931  
 Stevens, H.E., 1939
- PETROSELINUM Hoffm. 1814 (Umbelliferae)  
*P. crispum*, (Mill.) Nym.  
 V. aster yellows  
 Severin, H.H.P., 1930  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. peach western X disease  
 Weathers, Lewis G. and George W. Cochran, 1950  
 V. peach X disease  
 Kunkel, L.O., 1944  
 Slack, Derald A., 1952  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1939, 1945  
*P. crispum* var. *latifolium*, (Mill.) Nym.  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
*P. hortense*, Hoffm.  
 V. aster yellows  
 Severin, Henry H.P., 1932, 1934  
 V. beet curly top  
 Severin, Henry H.P., 1929  
 V. celery mosaic  
 Severin, Henry H.P. and Julius H. Freitag, 1938

- Petroselinum hortense*, Hoffm. (cont.)  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. vaccinium false blossom  
 Kunkel, L. O., 1945
- P. hortense* var. *crispum* \*  
 V. aster yellows  
 Severin, Henry H. P., 1932
- P. hortense* var. *radicosum*, Bailey \*  
 V. aster yellows  
 Severin, Henry H. P., 1932, 1934  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
 V. poison hemlock ring spot  
 Freitag, Julius H. and Henry H. P. Severin, 1945
- PETUNIA Juss. 1803 (Solanaceae)
- P. axillaris*, (Lam.) BSP.  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942
- P. hybrida*, Vilm.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Bennett, C. W., Eubanks Carsner, F. H. Coons  
 and E. W. Brandes, 1946  
 Bennett, C. W. and Aziz Tanrisever, 1957  
 Costa, A. S., 1952  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
 Fulton, Robert W., 1955  
 Severin, Henry H. P. and Julius H. Freitag, 1934  
 V. beet ring spot \*  
 Harrison, B. D., 1957  
 V. cabbage black ring spot  
 Hamlyn, Brenda M. G., 1953  
 Hollings, M., 1957  
 Tompkins, C. M., M. W. Gardner and H. Rex  
 Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R. H. and J. C. Walker, 1940, 1941  
 V. chilli (pepper) mosaic  
 Dale, W. T., 1954  
 Jha, Ashrafi and S. P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum Q  
 Brierley, Philip, 1955  
 Brierley, Philip and Floyd F. Smith, 1953  
 V. chrysanthemum vein mottle \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Berkeley, G. H., 1953  
 Berkeley, G. H. and J. H. Tremaine, 1954  
 Burnett, G., 1934  
 Dale, W. T., 1954  
 Doolittle, S. P. and W. J. Zaumeyer, 1953  
 Govier, D. A., 1957  
 Harrison, B. D., 1958  
 Harter, L. L., 1938  
 Nariani, T. K. and Nirmaljit Singh, 1952  
 Nienow, Inez, 1948  
 Pound, Glenn S. and J. C. Walker, 1948  
 Wellman, F. L., 1935  
 V. datura distortion mosaic  
 Capoor, S. P. and P. M. Varma, 1952  
 V. delphinium ring spot  
 Severin, Henry H. P. and R. C. Dickson, 1942  
 V. eggplant mosaic  
 Dale, W. T., 1954  
 V. lucerne mosaic  
 Berkeley, G. H., 1947  
 Kreitlow, K. W. and W. C. Price, 1948, 1949  
 Pierce, W. H., 1934  
 Richardson, D. E. and T. W. Tinsley, 1956  
 Severin, Henry H. P., 1942  
 Snyder, William C. and Saul Rich, 1942  
 Zaumeyer, W. J., 1938  
 V. pea die back \*  
 Zaumeyer, W. J., 1939  
 V. pea stem streak \*  
 Zaumeyer, W. J., 1939
- P. hybrida*, Vilm. (cont.)  
 V. (physalis) mosaic \*  
 Melhus, I. E., 1922  
 V. potato A  
 MacLachlan, D. S., R. H. Larson and J. C. Walker,  
 1953  
 V. potato leaf roll  
 Webb, R. E., R. H. Larson and J. C. Walker, 1952  
 V. potato X  
 Dykstra, T. P., 1933  
 V. potato Y  
 Dykstra, T. P., 1933, 1939  
 Sakimura, K., 1953  
 Vasudeva, R. Sahai and T. B. Lal, 1945  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. raspberry Scottish leaf curl  
 Harrison, B. D., 1958  
 Lister, R. M., 1958  
 V. raspberry yellow dwarf \*  
 Harrison, B. D., 1958  
 Lister, R. M., 1958  
 V. red currant ring spot  
 Klessner, P. J., 1951  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. sweet clover new \*  
 Henderson, R. G., 1934  
 V. sweet potato mosaic  
 Elmer, O. H., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Allard, H. A., 1916  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Berkeley, G. H., 1953  
 Cheo, Pen Ching and W. J. Zaumeyer, 1952  
 Cooper, W. E., 1949  
 Dunleavy, John M., 1957  
 Grogan, R. G., Roy Bardin and W. C. Schnathorst,  
 1954  
 Grogan, R. G. and W. C. Schnathorst, 1955  
 Pound, Glenn S., 1949  
 Priode, C. N., 1928  
 Shepherd, Robert J. and F. Ben Struble, 1956  
 Smith, Kenneth M., 1929  
 Starr, Chester K. and W. E. Cooper, 1944  
 Steere, Russell L., 1956  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato aspermy  
 Brierley, Philip and Floyd F. Smith, 1953  
 Brierley, Philip, Floyd F. Smith and S. P.  
 Doolittle, 1953, 1955  
 V. tomato black ring  
 Harrison, B. D., 1958  
 V. tomato spotted wilt  
 Gardner, M. W. and O. C. Whipple, 1934  
 Milbrath, J. A., 1939  
 Sakimura, K., 1940  
 V. turnip mosaic  
 Berkeley, G. H. and J. H. Tremaine, 1954  
 Berkeley, G. H. and M. Weintraub, 1952  
 LeBeau, Francis J. and J. C. Walker, 1945  
 Tompkins, C. M., 1938, 1939  
 V. vaccinium false blossom  
 Kunkel, L. O., 1945
- P. hybrida* var. *erecta* \*  
 V. tomato aspermy  
 Hollings, M., 1955
- P. hybrida* var. *grandiflora* \*  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942

- Petunia hybrida*, Vilm., var. *nana compacta* \*
- V. bayberry yellows  
Raychaudhuri, S.P., 1953
  - V. tomato aspermy  
Hollings, M., 1955
- P. nyctaginiflora*, Juss.
- V. potato X  
Dennis, R.W.G., 1939
  - V. potato Y  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- P. spp.*
- V. carrot motley dwarf  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. henbane mosaic  
Hamilton, Marion A., 1932
  - V. lucerne mosaic  
Porter, D.R., 1935
  - V. lucerne witches' broom  
Helms, Katie, 1957
  - V. potato aucuba mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. raspberry Scottish leaf curl  
Cadman, C.H., 1956
  - V. tobacco leaf curl  
Pal, B.P. and R.K. Tandon, 1937
  - V. tobacco mosaic  
Ainsworth, G.C., 1933  
Das, C.R. and S.P. Raychaudhuri, 1953
  - V. tomato big bud  
Helms, Katie, 1957
  - V. tomato spotted wilt  
Berkeley, G.H., 1935  
Norris, D.O., 1951  
Smith, Kenneth M., 1932
  - V. tropaeolum ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tulip white streak  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. violacea*, Lindl.
- V. cucumber mosaic  
Hoggan, Isme A., 1927  
Johnson, J., 1926, 1927
  - V. petunia mosaic  
Johnson, J., 1926, 1927
  - V. potato X  
Hoggan, Isme A., 1927  
Johnson, James, 1925, 1927  
Smith, J. Henderson, 1928
  - V. potato Y  
Hoggan, Isme A., 1927  
Johnson, James, 1927
  - V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
  - V. tobacco etch  
Fulton, Robert W., 1941
  - V. tobacco mosaic  
Fulton, Robert W., 1941  
Hoggan, Isme A., 1927  
Jarrett, Phyllis H., 1930  
Johnson, J., 1926, 1927
  - V. tobacco ring spot  
Fulton, Robert W., 1941  
Henderson, R.G., 1931  
Henderson, R.G. and S.A. Wingard, 1931  
Wingard, S.A., 1928
- PHACELIA Juss. 1789 (Hydrophyllaceae)
- P. campanularia*, Gray
- V. beet mosaic  
Bennett, C.W., 1949
  - V. clover big vein  
Black, L.M., 1945
  - V. lucerne mosaic  
Price, W.C., 1940
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco etch  
Holmes, Francis O., 1946  
Grant, T.J., 1934
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. tobacco necrosis  
Price, W.C., 1940
- P. campanularia*, Gray (cont.)
- V. tobacco ring spot  
Price, W.C., 1940
- P. ciliata*, Benth.
- V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
- P. parryi*, Torr.
- V. tobacco mosaic  
Grant, T.J., 1934
- P. ramosissima*, Dougl. ex Lehm.
- V. beet curly top  
Severin, Henry H.P., 1934, 1939
- P. tanacetifolia*, Benth.
- V. cucumber mosaic  
Wellman, F.L., 1935
  - V. tobacco mosaic  
Grant, T.J., 1934
- P. viscida*, (Benth.) Torr.
- V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
- P. whitlavia*, A. Gray (*Whitlavia grandiflora*, Harv.)
- V. cucumber mosaic  
Wellman, F.L., 1934, 1935
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- PHALARIS L. 1735 (Gramineae)
- P. arundinacea*, L.
- V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957
- P. minor*, Retz.
- V. lucerne dwarf  
Freitag, J.H., 1951
- P. paradoxa*, L.
- V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1953
  - V. lucerne dwarf  
Freitag, J.H., 1951
  - V. wheat streak mosaic  
McKinney, H.H. and Hurley Fellows, 1951
- P. spp.*
- V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1952
- P. tuberosa*, L.
- V. barley yellow dwarf  
Oswald, John W. and Byron R. Houston, 1953
- P. tuberosa* var. *stenoptera*, (Hack.) Hitchc.
- V. maize leaf fleck  
Stoner, Warren N., 1952
- PHARBITIS Choisy 1833 (Convolvulaceae)
- P. diversifolia* \*
- V. sweet potato internal cork  
Hildebrand, E.M. and H.A. Borthwick, 1956  
Hildebrand, E.M. and F.F. Smith, 1956
- P. hederacea*, Choisy
- V. sweet potato internal cork  
Hildebrand, E.M. and H.A. Borthwick, 1956
- PHASEOLUS ((Tourn.)) L. 1735 (Leguminosae)
- P. aconitifolius*, Jacq.
- V. bean common mosaic  
Nelson, Ray, 1932  
Thomas, H. Rex and W.J. Zaumeyer, 1953
  - V. lucerne mosaic  
Thomas, H. Rex, 1951
  - V. rose mosaic  
Fulton, Robert W., 1952
  - V. tobacco ring spot  
Cheo, Pen Ching and W.J. Zaumeyer, 1952
  - V. tobacco streak  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. acutifolius*, A. Gray
- V. lucerne mosaic  
Thomas, H. Rex, 1951

- Phaseolus acutifolius*, A. Gray, var. *latifolius*, Freeman
- V. bean common mosaic
    - Nelson, Ray, 1932
    - Pierce, W.H., 1934
    - Reddick, D. and V.B. Stewart, 1919
  - V. bean yellow mosaic
    - Pierce, W.H., 1934
    - Thomas, H. Rex and W.J. Zaumeyer, 1953
    - Zaumeyer, W.J. and H.H. Fisher, 1953
  - V. bean yellow stipple
    - Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. cucumber mosaic
    - Doolittle, S.P. and W.J. Zaumeyer, 1953
  - V. lucerne mosaic
    - Thomas, H.R., 1953
    - Zaumeyer, W.J., 1953
  - V. pea mosaic
    - Murphy, D.M. and W.H. Pierce, 1937
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
- P. angularis*, (Willd.) W.F. Wright
- V. bean common mosaic
    - Nelson, Ray, 1932
  - V. bean yellow mosaic
    - Zaumeyer, W.J. and B.L. Wade, 1935
  - V. cowpea mosaic
    - Yu, T.F., 1946
  - V. lucerne mosaic
    - Pierce, W.H., 1934
    - Thomas, H. Rex, 1951
    - Zaumeyer, W.J., 1938
    - Zaumeyer, W.J. and B.L. Wade, 1935
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
    - Pierce, W.H., 1934
- P. aureus*, Roxb.
- V. bean common mosaic
    - Pierce, W.H., 1934
  - V. bean double yellow mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. bean yellow mosaic
    - Osborn, H.T., 1938
    - Pierce, W.H., 1934
    - Zaumeyer, W.J. and H.H. Fisher, 1953
    - Zaumeyer, W.J. and B.L. Wade, 1935
  - V. cowpea mosaic
    - Dale, W.T., 1949
  - V. cucumber mosaic
    - Price, W.C., 1940
  - V. lucerne mosaic
    - Pierce, W.H., 1934
    - Thomas, H. Rex, 1951
    - Zaumeyer, W.J., 1938
    - Zaumeyer, W.J. and B.L. Wade, 1935
  - V. pea mottle
    - Johnson, Folke, 1942
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. red clover mosaic \*
    - Zaumeyer, W.J. and B.L. Wade, 1935
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. tobacco necrosis
    - Price, W.C., 1940
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
    - Cooper, W.E., 1949
    - Pierce, W.H., 1934
    - Starr, Chester K. and W.E. Cooper, 1944
  - V. tobacco streak
    - Fulton, Robert W., 1948
    - Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. calcaratus*, Roxb.
- V. bean common mosaic
    - Nelson, Ray, 1932
    - Pierce, W.H., 1934
  - V. bean yellow stipple
    - Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. cucumber mosaic
    - Doolittle, S.P. and W.J. Zaumeyer, 1953
  - V. lucerne mosaic
    - Pierce, W.H., 1934
    - Thomas, H. Rex, 1951
    - Zaumeyer, W.J. and B.L. Wade, 1935
- P. calcaratus*, Roxb. (cont.)
- V. tobacco ring spot
    - Pierce, W.H., 1934
- P. coccineus*, L.
- V. bean common mosaic
    - Nelson, Ray, 1932
  - V. bean yellow stipple
    - Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. lucerne mosaic
    - Thomas, H. Rex, 1951
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
  - V. tobacco streak
    - Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. lathyroides*, L.
- V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
- P. limensis*, MacF.
- V. bean common mosaic
    - Nelson, Ray, 1932
  - V. bean double yellow mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. bean yellow mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. cowpea mosaic
    - Anderson, C.W., 1955
  - V. cucumber mosaic
    - Anderson, C.W., 1955
    - Harter, L.L., 1936
    - Thomas, H. Rex, W.J. Zaumeyer and Hans Jorgensen, 1951
  - V. tobacco ring spot
    - Pierce, W.H., 1934
- P. lunatus*, L.
- V. bean common mosaic
    - Nelson, Ray, 1932
    - Pierce, W.H., 1934
  - V. bean double yellow mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. bean pod mottle
    - Zaumeyer, W.J. and H. Rex Thomas, 1948
  - V. bean southern mosaic
    - Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic
    - Zaumeyer, W.J. and H.H. Fisher, 1953
  - V. beet curly top
    - Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. cowpea mosaic
    - Dale, W.T., 1949
  - V. cucumber mosaic
    - Doolittle, S.P. and W.J. Zaumeyer, 1953
    - Whipple, O.C. and J.C. Walker, 1941
  - V. kaimi clover disease \*
    - Murakishi, Harry H., 1952
  - V. lucerne mosaic
    - Kreitlow, K.W. and W.C. Price, 1948, 1949
    - Thomas, H. Rex, 1951
    - Zaumeyer, W.J., 1938, 1953
  - V. pea die back \*
    - Zaumeyer, W.J., 1939
  - V. pea stem streak \*
    - Zaumeyer, W.J., 1939
  - V. tobacco ring spot
    - Cooper, W.E., 1949
    - LeBeau, F.J., 1947
    - Pierce, W.H., 1934
    - Wingard, S.A., 1928
- P. lunatus* f. *macrocarpus*, (Benth.) Van Ess.
- V. bean common mosaic
    - Pierce, W.H., 1934
    - Reddick, D. and V.B. Stewart, 1919
  - V. cowpea mosaic
    - Capoor, S.P. and P.M. Varma, 1956
    - Dale, W.T., 1949
    - McLean, D.M., 1941
    - Yu, T.F., 1946
  - V. cucumber mosaic
    - Harter, L.L., 1938
    - Pryor, Dean E. and Robert E. Wester, 1946
  - V. subterranean clover mosaic
    - Aitken, Y. and B.J. Grieve, 1943

- Phaseolus lunatus*, L. x *P. lunatus* f. *macrocarpus*, (Benth.) Van Ess.
- V. bean pod mottle  
Zaumeyer, W.J. and H. Rex Thomas, 1948
  - V. bean southern mosaic  
Zaumeyer, W.J. and L.L. Harter, 1943
- P. multiflora*, Willd.
- V. tobacco ring spot  
LeBeau, F.J., 1947
- P. mungo*, L.
- V. bean common mosaic  
Nelson, Ray, 1932
  - V. bean yellow stipple  
Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. cowpea mosaic  
Dale, W. T., 1949
  - V. lucerne mosaic  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. tobacco ring spot  
Cheo, Pen Ching and W.J. Zaumeyer, 1952
  - V. tobacco streak  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. radiatus*, L. var. *aurea* \*
- V. bean common mosaic  
Matsumoto, T., 1922
- P. trinervius*, Heyne ex Wall.
- V. cowpea mosaic  
Dale, W. T., 1949
- P. vulgaris*, L.
- V. alsike clover mosaic  
Harrison, Arthur L., 1935  
Zaumeyer, W.J., 1933, 1940  
Zaumeyer, W.J. and B.L. Wade, 1935, 1936
  - V. apple mosaic  
Yarwood, C.E., 1955  
Yarwood, C.E. and H.E. Thomas, 1954
  - V. apricot ring pox  
Yarwood, C.E., 1957
  - V. arabis mosaic  
Smith, Kenneth M. and Roy Markham, 1944
  - V. aster ring spot  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. atropa belladonna mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. bean common mosaic  
Ainsworth, G.C., 1940  
Bridgmon, G.H. and J.C. Walker, 1951  
Dean, Leslie L. and C.W. Hungerford, 1946, 1954  
Fajardo, T.G., 1928, 1930  
Fernow, Karl Hermann, 1925  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fulton, Robert W., 1941  
Grogan, Raymond G. and J.C. Walker, 1948  
Harrison, Arthur L., 1935  
Jenkins, Wilbert A., 1940  
Mackie, W. W. and Katherine Esau, 1932  
Murphy, Donald M., 1940  
Murphy, Donald M. and W.H. Pierce, 1938  
Nelson, Ray, 1932  
Parker, M.C., 1936  
Pierce, W.H., 1934, 1935, 1937  
Pierce, W.H. and C.W. Hungerford, 1929  
Reddick, D. and V.B. Stewart, 1918, 1919  
Richards, B. Lorin and Walter H. Burkholder, 1943  
Smith, Francis L. and Wm. B. Hewitt, 1938  
Snyder, W.C., 1942  
Stewart, V.B. and Donald Reddick, 1917  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Wade, B.L. and C.F. Andrus, 1941  
Walker, J.C. and J.P. Jolivet, 1943  
Yerkes, William D., Jr. and Alfonso Crispin Medina, 1957  
Zaumeyer, W.J. and H.H. Fisher, 1951  
Zaumeyer, W.J. and H. Rex Thomas, 1947, 1948  
Zaumeyer, W.J. and B.L. Wade, 1933, 1935
  - V. bean double yellow mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. bean leaf wilt  
Johnson, James, 1942
  - V. bean Montana \*  
Afanasiev, M.M. and H.E. Morris, 1946
  - P. vulgaris*, L. (cont.)
  - V. bean mosaic 3 \*  
Zaumeyer, W.J. and B.L. Wade, 1933, 1935
  - V. bean pod mottle  
Thomas, H. Rex and W.J. Zaumeyer, 1950  
Zaumeyer, W.J. and H. Rex Thomas, 1948, 1950
  - V. bean southern mosaic  
Bain, Douglas C., 1950  
Bridgmon, G.H., 1951  
Bridgmon, G.H. and J.C. Walker, 1951  
Mitchell, J.W., W.H. Preston, Jr. and J.M. Beal, 1956  
Price, W.C. and Betty R. Holt, 1948  
Zaumeyer, W.J. and H.H. Fisher, 1951  
Zaumeyer, W.J. and L.L. Harter, 1942, 1943, 1944  
Zaumeyer, W.J. and H. Rex Thomas, 1948, 1950
  - V. bean yellow mosaic  
Afanasiev, M.M. and H.E. Morris, 1952  
Ainsworth, G.C., 1940  
Baggett, James R., 1956, 1957  
Berkeley, G.H., 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip, 1952  
Conover, Robert A., 1948  
Grogan, Ray G., 1948  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1949, 1950, 1954  
Harrison, Arthur L., 1935  
Houston, Byron R. and John W. Oswald, 1953  
Hungerford, C.W. and Irvin G. Hillyer, 1954  
Johnson, James, 1942  
McWhorter, Frank P., 1949  
Murphy, Donald M., 1940  
Osborn, H.T., 1938  
Pierce, W.H., 1934, 1935, 1937  
Thomas, H.R., 1953  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Yerkes, William D., Jr. and Alfonso Crispin Medina, 1957  
Zaumeyer, W.J., 1933, 1940, 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1933, 1935, 1936
  - V. bean yellow stipple  
Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. beet curly top  
Bennett, C.W., 1934  
Carsner, E., 1925, 1926  
Dana, B.F., 1940  
Dean, Leslie L. and C.W. Hungerford, 1954  
Giddings, N.J., 1938, 1944  
Lackey, C.F., 1942  
Mackie, W.W. and Katherine Esau, 1932  
Murphy, Donald M., 1940  
Pierce, W.H., 1937  
Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. beet leaf curl  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. beet ring spot \*  
Harrison, B.D., 1957
  - V. broad bean mottle  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
  - V. brome mosaic  
McKinney, H.H., 1944, 1953
  - V. canna mosaic  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
  - V. carnation ring spot  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
  - V. cucumber mosaic  
Anderson, C.W., 1955  
Berkeley, G.H., 1951  
Bhargava, K.S., 1951  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Fulton, Joseph P., 1950  
Hagedorn, D.J., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Hollings, M., 1955

- Phaseolus vulgaris, L. (cont.)
- V. cucumber mosaic
    - Silberschmidt, K., 1955
    - Thomas, H. Rex and W. J. Zaumeyer, 1953
    - Whipple, O. C. and J. C. Walker, 1938, 1941
  - V. elm mosaic
    - Varney, E. H. and J. Duain Moore, 1952
  - V. gladiolus \*
    - Snow, Gordon F., 1955
  - V. iris ring spot \*
    - Travis, R. V., 1957
  - V. kaimi clover disease \*
    - Murakishi, Harry H., 1952
  - V. laburnum vein mosaic \*
    - Brierley, Philip and Floyd F. Smith, 1954
  - V. lovage mosaic
    - Smith, Kenneth M. and Roy Markham, 1944
  - V. lucerne mosaic
    - Berkeley, G. H., 1947
    - Black, L. M. and W. C. Price, 1940
    - Houston, Byron R. and John W. Oswald, 1951, 1953
    - Johnson, E. M., 1946
    - Kreitlow, K. W. and W. C. Price, 1948, 1949
    - McWhorter, Frank P., 1949
    - Milbrath, J. A., 1952
    - Oswald, John W., 1950
    - Pierce, W. H., 1934, 1937
    - Richardson, D. E. and T. W. Tinsley, 1956
    - Thomas, H. Rex, 1951, 1953
    - Zaumeyer, W. J., 1938, 1952, 1953
    - Zaumeyer, W. J. and B. L. Wade, 1933, 1935
  - V. pea enation mosaic
    - Johnson, Folke and Leon K. Jones, 1937
  - V. pea mosaic
    - Hagedorn, D. J., 1948
    - Johnson, F. and L. K. Jones, 1936
    - Osborn, H. T., 1937
    - Zaumeyer, W. J., 1933
    - Zaumeyer, W. J. and B. L. Wade, 1933
  - V. pea mottle
    - Johnson, Folke, 1942
    - Johnson, F. and L. K. Jones, 1936, 1937
  - V. pea streak
    - Kim, Woon S. and D. J. Hagedorn, 1957
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. peach ring spot
    - Yarwood, C. E., 1957
  - V. peach yellow bud mosaic
    - Karle, Harry P., 1957
    - Yarwood, C. E., 1956
    - Yarwood, C. E. and H. E. Thomas, 1954
  - V. ranunculus mosaic
    - Raabe, Robert D. and A. Herbert Gold, 1957
  - V. raspberry Scottish leaf curl
    - Cadman, C. H., 1956
    - Harrison, B. D., 1958
    - Lister, R. M., 1958
  - V. raspberry yellow dwarf \*
    - Harrison, B. D., 1958
    - Lister, R. M., 1958
  - V. red clover mosaic \*
    - Harrison, Arthur L., 1935
  - V. red clover vein mosaic
    - Graves, Clinton H., Jr. and D. J. Hagedorn, 1956
  - V. rhubarb ring spot \*
    - Vaughan, Edward K. and John W. Yale, Jr., 1953
    - Yale, John W., Jr. and Edward K. Vaughan, 1954
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. strawberry green petal
    - Dana, B. F., 1947
  - V. subterranean clover mosaic
    - Aitken, Y. and B. J. Grieve, 1943
  - V. sweet pea mosaic \*
    - Zaumeyer, W. J., 1933
    - Zaumeyer, W. J. and B. L. Wade, 1933, 1935
  - V. tobacco bergerac ring spot
    - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
  - V. tobacco broad ring spot
    - Johnson, James and Robert W. Fulton, 1942
  - V. tobacco broken ring spot
    - Smith, Kenneth M. and Roy Markham, 1944
  - P. vulgaris, L. (cont.)
    - V. tobacco mosaic
      - Berkeley, G. H., 1951
      - Costa, A. S., 1944
      - Doolittle, S. P. and F. S. Beecher, 1942
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
      - Grant, T. J., 1934
      - Holmes, F. O., 1934, 1941, 1946
      - McKinney, H. H., 1943
      - McKinney, H. H. and Robert W. Fulton, 1949
      - Nagaich, B. B. and H. H. Thornberry, 1957
      - Peterson, Paul D. and H. H. McKinney, 1938
      - Pierce, W. H., 1934
      - Price, W. C., 1930
      - Silberschmidt, K. and M. Kramer, 1941
      - Spencer, E. L., 1935
      - Zaumeyer, W. J. and B. L. Wade, 1935
    - V. tobacco necrosis
      - Bawden, F. C. and B. Kassanis, 1947
      - Bawden, F. C. and F. M. Roberts, 1948
      - Frazier, Norman W., 1955
      - Fulton, J. P., 1952
      - Fulton, Robert W., 1950
      - Kassanis, B., 1949, 1955
      - Price, W. C., 1938
      - Price, W. C., Frank P. McWhorter and Betty H. Steranka, 1950
      - Price, W. C. and Ralph W. G. Wyckoff, 1939
    - V. tobacco ring spot
      - Allington, William B., 1946
      - Anderson, C. W., 1954
      - Berkeley, G. H., 1951, 1953
      - Bridgmon, G. H. and J. C. Walker, 1952
      - Brierley, Philip, 1952
      - Cheo, Pen Ching and W. J. Zaumeyer, 1952
      - Cooper, W. E., 1949
      - Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954
      - Grogan, R. G. and W. C. Schnathorst, 1955
      - Kahn, Robert P. and Frances M. Latterell, 1955
      - LeBeau, F. J., 1947
      - McKinney, H. H. and E. E. Clayton, 1944
      - Pierce, W. H., 1934
      - Pound, Glenn S., 1949
      - Roberts, Daniel A., 1952
      - Rosberg, David W., 1953
      - Shepherd, Robert J. and F. Ben Struble, 1956
      - Stubbs, M. W., 1937
      - Tall, M. G., W. C. Price and Kenneth Wertman, 1949
      - Thomas, H. Rex and W. J. Zaumeyer, 1950
      - Travis, R. V. and Philip Brierley, 1957
      - Wingard, S. A., 1928
      - Zaumeyer, W. J. and B. L. Wade, 1935
    - V. tobacco ring spot no. 2
      - Hildebrand, E. M., 1942
      - Price, W. C., 1936
      - Tall, M. G., W. C. Price and Kenneth Wertman, 1949
      - Thomas, H. Rex and W. J. Zaumeyer, 1950
    - V. tobacco streak
      - Fulton, Robert W., 1948
      - Thomas, H. Rex and W. J. Zaumeyer, 1950
      - Thomas, W. D., Jr., 1949
      - Thomas, W. D., Jr. and R. W. Graham, 1951
    - V. tomato aspermy
      - Hollings, M., 1955
    - V. tomato black ring
      - Harrison, B. D., 1958
    - V. tomato bushy stunt
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
    - V. tomato ring spot
      - Kahn, Robert P. and Frances M. Latterell, 1955
    - V. tomato spotted wilt
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
    - V. tomato V-52-1
      - Miller, Patrick M., 1953
    - V. tulip white streak
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
    - V. watermelon mosaic
      - Pound, Glenn S., 1949
  - P. vulgaris var. humulis, Alef. \*
    - V. bean common mosaic
      - Nelson, Ray, 1932

- Phaseolus vulgaris*, L. x *P. coccineus*, L.  
 V. bean yellow mosaic  
 Baggett, James R., 1956
- PHENAX Wedd. 1854 (Urticaceae)  
*P. sonneratii*, (Poir.) Wedd.  
 V. abutilon infectious variegation  
 Silberschmidt, Karl M., 1948
- PHLEUM L. 1735 (Gramineae)  
*P. pratense*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Watson, Marion A. and T. Mulligan, 1957  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- PHLOX L. 1737 (Polemoniaceae)  
*P. drummondii*, Hook.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P., 1943  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 Faan, Hwei Chung and James Johnson, 1951  
 Govier, D.A., 1957  
 Pound, Glenn S. and J.C. Walker, 1948  
 Wellman, F.L., 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H.P., 1943  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- P. paniculata*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. cucumber mosaic  
 Faan, Hwei-Chung and James Johnson, 1951
- PHORMIUM Forst. 1776 (Liliaceae)  
*P. tenax*, Forst.  
 V. phormium yellow leaf  
 Boyce, W.R., 1958
- PHOTINIA Lindl. 1821 (Rosaceae)  
*P. arbutifolia*, (Ait.) Lindl.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- P. spp.*  
 V. apple mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- PHYLLANTHUS L. 1737 (Euphorbiaceae)  
*P. corcovadensis*, Muell.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950
- PHYSALIS L. 1735 (Solanaceae)  
*P. aequata*, Jacq. f. ex Nees  
 V. prunus B \*  
 Fulton, Robert W., 1957
- P. alkekengi*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- P. alkekengi*, L. (cont.)  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Hoggan, Isme A., 1927  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- P. angulata*, L.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Wellman, F.L., 1935  
 V. iris ring spot \*  
 Travis, R.V., 1957  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. potato leaf roll  
 Hovey, Charles and Reiner Bonde, 1948  
 Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
 Klostermeyer, E.C., 1953  
 MacCarthy, H.R., 1954  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 Williams, W. Llewelyn and A. Frank Ross, 1957  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco leaf curl  
 Bird, Julio, 1957  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, F.O., 1934, 1941, 1946  
 Jensen, J.H., 1933  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tomato aspermy  
 Brierley, Philip and Floyd F. Smith, 1953  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. elliptii*, Kunze  
 V. tobacco mosaic  
 Anderson, C.W. and M.K. Corbett, 1957
- P. floridana*, Rydb.  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 V. cucumber mosaic  
 Ross, A. Frank, 1950, 1953  
 V. datura rugose leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. eggplant mosaic  
 Dale, W.T., 1954  
 V. nicotiana glutinosa root necrosis \*  
 Cetas, Robert C. and A. Frank Ross, 1952  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. potato leaf roll  
 Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
 Klostermeyer, E.C., 1953  
 MacCarthy, H.R., 1954  
 Webb, R.E. and R.H. Larson, 1952  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 Webb, R.E. and E.S. Schultz, 1954  
 Williams, W. Llewelyn and A. Frank Ross, 1957  
 V. potato stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. potato X  
 Ross, A. Frank, 1950, 1953  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 Hutton, E.M. and J.W. Peak, 1952  
 Richardson, D.E., 1958  
 Ross, A. Frank, 1948, 1949, 1950, 1953  
 V. tobacco etch  
 Greenleaf, W.H., 1953  
 V. tobacco mosaic  
 Ross, A. Frank, 1953  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955



- Physalis franchetti*, Mast.  
 V. cucumber mosaic  
 Hoggan, Isme A., 1927  
 V. potato X  
 Hoggan, Isme A., 1927  
 V. potato Y  
 Hoggan, Isme A., 1927  
 V. tobacco mosaic  
 Hoggan, Isme A., 1927
- P. heterophylla*, Nees  
 V. cucumber mosaic  
 Walker, M.N., 1925  
 V. cucurbit mosaic \*  
 Walker, M.N., 1924  
 V. elm mosaic  
 Varney, E.H. and J. Duain Moore, 1952  
 V. *physalis heterophylla* mosaic \*  
 Walker, M.N., 1925  
 V. potato X  
 Goss, R.W., 1931  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Larson, R.H., 1947  
 V. potato yellow dwarf  
 Black, L.M., 1937  
 Larson, R.H., 1947  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Fernow, Karl Hermann, 1925  
 Gardner, Max W. and James B. Kendrick, 1922
- P. heterophylla* var. *nyctaginea*, (Dun.) Rydb.  
 V. cucumber mosaic  
 Johnson, E.M., 1930  
 V. potato X  
 Johnson, E.M., 1930  
 V. potato Y  
 Johnson, E.M., 1930  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco etch  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Johnson, E.M., 1930
- P. ixocarpa*, Brot.  
 V. tobacco etch  
 Greenleaf, W.H., 1953
- P. lagascae*, Roem. & Schult.  
 V. celery mosaic  
 Doolittle, S.P. and F.L. Wellman, 1934  
 V. cucumber mosaic  
 Wellman, F.L., 1934, 1935
- P. longifolia*, Nutt.  
 V. (*physalis longifolia*) mosaic \*  
 Melhus, I.E., 1922  
 V. tobacco mosaic  
 Crawford, R.F., 1921
- P. peruviana*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Holmes, Francis O., 1942  
 Simons, John N., 1957  
 Wellman, F.L., 1935  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. *nicotiana glutinosa* root necrosis \*  
 Cetas, Robert C. and A. Frank Ross, 1952  
 V. potato aucuba mosaic  
 Holmes, Francis O., 1942  
 V. potato Y  
 Larson, R.H. and J.F. Darby, 1951  
 Sakimura, K., 1953  
 Simons, J.N., Robert A. Conover and James M. Walter, 1956  
 V. tobacco etch  
 Anderson, C.W., 1954  
 Costa, A.S., 1944
- P. peruviana*, L. (cont.)  
 V. tobacco etch  
 Holmes, Francis O., 1941, 1942, 1946  
 V. tobacco leaf curl  
 Nariani, T.K. and P.S. Pathanian, 1953  
 V. tobacco mosaic  
 Holmes, Francis O., 1942, 1946  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. philadelphica*, Lam.  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. potato M \*  
 Bagnall, R.H. and R.H. Larson, 1957  
 V. potato paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- P. pruinosa*, L.  
 V. tobacco etch  
 Anderson, C.W., 1954
- P. pubescens*, L.  
 V. celery mosaic  
 Doolittle, S.P., 1931  
 Doolittle, S.P. and F.L. Wellman, 1934  
 V. cucumber mosaic  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Pound, Glenn S. and J.C. Walker, 1948  
 Walker, M.N., 1925, 1926  
 Wellman, F.L., 1934, 1935  
 V. cucurbit mosaic \*  
 Walker, M.N., 1924  
 V. petunia mosaic  
 Johnson, J., 1926, 1927  
 V. *physalis heterophylla* mosaic \*  
 Walker, M.N., 1925  
 V. (*physalis*) mosaic \*  
 Walker, M.N., 1926  
 V. *physalis subglabrata* mosaic \*  
 Walker, M.N., 1925  
 V. pokeweed mosaic \*  
 Walker, M.N., 1924, 1925  
 V. potato M \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato X  
 Fernow, K.H., 1923  
 Folsom, Donald and Reiner Bonde, 1937  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Johnson, James, 1925, 1927  
 V. potato Y  
 Hoggan, Isme A., 1927  
 Johnson, James, 1927  
 Koch, K.L., 1933  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco etch  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Ainsworth, G.C., 1933  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Walker, M.N., 1924, 1925, 1926  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 Johnson, J., 1936  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 Tompkins, C.M. and M.W. Gardner, 1934

- Physalis pubescens*, L. (cont.)  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- P.* spp.  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1924  
 V. potato X  
 Dykstra, T.P., 1933  
 V. potato Y  
 Dykstra, T.P., 1933  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942
- P.* subglabrata, Mackenzie & Bush  
 V. cucumber mosaic  
 Walker, M.N., 1925  
 V. cucurbit mosaic \*  
 Walker, M.N., 1924  
 V. *physalis* subglabrata mosaic \*  
 Walker, M.N., 1925  
 V. tobacco etch  
 Holmes, Francis O., 1943, 1946  
 V. tobacco mosaic  
 Fernow, Karl Hermann, 1925  
 Gardner, Max W. and James B. Kendrick, 1922  
 Holmes, Francis O., 1946
- P.* turbinata, Medic.  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951
- P.* virginiana, Mill.  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Larson, R.H., 1947  
 V. potato yellow dwarf  
 Larson, R.H., 1947  
 V. tobacco mosaic  
 Gardner, M.W. and J.B. Kendrick, 1922
- P.* viscosa, L.  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P.* wrightii, A. Gray  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- PHYSOSTEGIA Benth. 1829 (Labiatae)  
*P.* virginiana, (L.) Benth.  
 V. tobacco ring spot  
 Price, W.C., 1940
- PHYTOLACCA Tourn. ex L. 1735 (Phytolaccaceae)  
*P.* americana, L.  
 V. apple mosaic  
 Yarwood, C.E., 1955  
 V. cucumber mosaic  
 Harter, L.L., 1938  
 Wellman, F.L., 1935  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1922  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. lucerne mosaic  
 Johnson, E.M., 1946
- P.* decandra, L.  
 V. cucumber mosaic  
 Diachun, Stephen, 1952  
 Hoggan, Isme A., 1935  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1924, 1925  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. petunia mosaic  
 Johnson, J., 1926, 1927  
 V. pokeweed mosaic \*  
 Allard, H.A., 1918  
 Fernow, Karl Hermann, 1925  
 V. potato X  
 Johnson, E.M., 1930
- P.* decandra, L. (cont.)  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Johnson, E.M., 1930  
 Priode, C.N., 1928  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- P.* esculenta, Van Houtte  
 V. cucumber mosaic  
 Bhargava, K.S., 1951
- P.* rigida, Small  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- PICRIS L. 1735 (Compositae)  
*P.* echioides, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- PIMPINELLA ((Riv.)) L. 1735 (Umbelliferae)  
*P.* anisum, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- PISUM ((Tourn.)) L. 1735 (Leguminosae)  
*P.* sativum, L.  
 V. alsike clover mosaic  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1936  
 V. bean yellow mosaic  
 Ainsworth, G.C., 1940  
 Baggett, James R., 1957  
 Berkeley, G.H., 1953  
 Conover, Robert A., 1948  
 Corbett, M.K., 1957  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J., 1951, 1952  
 Hagedorn, D.J. and J.C. Walker, 1949, 1950, 1954  
 Hanson, E.W. and D.J. Hagedorn, 1954  
 Hungerford, C.W. and Irvin G. Hillyer, 1954  
 Johnson, James, 1942  
 McWhorter, Frank P., 1949  
 Osborn, H.T., 1935  
 Oshima, Nagayoshi and M.F. Kernkamp, 1957  
 Pierce, W.H., 1935, 1937  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935, 1936  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. broad bean mottle  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
 V. cucumber mosaic  
 Ainsworth, G.C., 1940  
 Anderson, C.W., 1955  
 Berkeley, G.H., 1951  
 Bhargava, K.S., 1951  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Fulton, Joseph P., 1950  
 Hagedorn, D.J., 1950, 1952  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Pound, Glenn S. and J.C. Walker, 1948  
 Whipple, O.C. and J.C. Walker, 1938, 1941  
 V. elm mosaic  
 Varney, E.H. and J. Duain Moore, 1952  
 V. (legume) western ring spot \*  
 McWhorter, Frank P., 1954  
 V. lettuce mosaic  
 Ainsworth, G.C., 1940

- Pisum sativum*, L. (cont.)
- V. lettuce mosaic  
Ainsworth, G.C. and L. Ogilvie, 1939
  - V. lovage mosaic  
Smith, Kenneth M. and Roy Markham, 1944
  - V. lucerne mosaic  
Berkeley, G.H., 1947  
Hanson, E.W. and D.J. Hagedorn, 1954  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
McWhorter, Frank P., 1949, 1954  
Oswald, John W., 1950  
Pierce, W.H., 1934  
Richardson, D.E. and T.W. Tinsley, 1956  
Thomas, H. Rex, 1951, 1953  
Zaumeyer, W.J., 1937, 1938, 1953  
Zaumeyer, W.J. and B.L. Wade, 1936
  - V. pea die back \*  
Zaumeyer, W.J., 1939
  - V. pea enation mosaic  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J., 1952  
Hagedorn, D.J. and J.C. Walker, 1954  
Johnson, Folke and Leon K. Jones, 1937  
McEwen, F.L. and W.T. Schroeder, 1956  
McWhorter, Frank P., 1954  
Osborn, H.T., 1938  
Pierce, W.H., 1935, 1937  
Simons, John N., 1954  
Stubbs, M.W., 1936, 1937
  - V. pea leaf roll  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. pea mosaic  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Doolittle, S.P. and F.R. Jones, 1925  
Hagedorn, D.J., 1948  
Hagedorn, D.J. and J.C. Walker, 1954  
Johnson, F. and L.K. Jones, 1936  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1934, 1935  
Oshima, Nagayoshi and M.F. Kernkamp, 1957  
Pierce, W.H., 1935, 1937  
Snyder, W.C., 1934  
Stubbs, M.W., 1936, 1937  
Yen, D.E. and P.R. Fry, 1956  
Zaumeyer, W.J. and B.L. Wade, 1936
  - V. pea mottle  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
  - V. pea stem streak \*  
Zaumeyer, W.J., 1939
  - V. pea streak  
Kim, Woon S. and D.J. Hagedorn, 1957  
Linford, M.B., 1931  
Oshima, Nagayoshi and M.F. Kernkamp, 1957  
Zaumeyer, W.J., 1937, 1938  
Zaumeyer, W.J. and B.L. Wade, 1937
  - V. pea wilt  
Johnson, Folke, 1942  
Pierce, W.H., 1935
  - V. pea yellow mosaic \*  
Ainsworth, G.C., 1940
  - V. prunus A \*  
Fulton, Robert W., 1957
  - V. prunus G \*  
Fulton, Robert W., 1957
  - V. red clover mosaic \*  
Doolittle, S.P. and F.R. Jones, 1925  
Zaumeyer, W.J. and B.L. Wade, 1933, 1935, 1936
  - V. red clover vein mosaic  
Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
Hagedorn, D.J., 1952, 1954  
Hagedorn, D.J. and E.W. Hanson, 1951  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Hanson, E.W. and D.J. Hagedorn, 1954  
Osborn, H.T., 1937  
Roberts, D.A., 1957
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. subterranean clover mosaic  
Aitken, Y. and B.J. Grieve, 1943
- P. sativum*, L. (cont.)
- V. sweet pea mosaic \*  
Doolittle, S.P. and F.R. Jones, 1925
  - V. tobacco broad ring spot  
Johnson, James and Robert W. Fulton, 1942
  - V. tobacco mosaic  
Berkeley, G.H., 1951
  - V. tobacco necrosis  
Price, W.C., 1940
  - V. tobacco ring spot  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cooper, W.E., 1949  
Grogan, R.G. and W.C. Schnathorst, 1955  
LeBeau, F.J., 1947  
Pound, Glenn S., 1949  
Rosberg, David W., 1953  
Stubbs, M.W., 1937
  - V. tobacco ring spot no. 2  
Wilkinson, R.E., 1952
  - V. tobacco streak  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. tomato spotted wilt  
Ainsworth, G.C., 1940  
Jones, Leon K., 1944  
Milbrath, J.A., 1939  
Snyder, W.C. and H. Rex Thomas, 1936  
Whipple, O.C., 1936
  - V. watermelon mosaic  
Pound, Glenn S., 1949
  - V. Wisconsin pea streak  
Hagedorn, D.J., 1952  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Skotland, C.B., 1953  
Skotland, C.B. and D.J. Hagedorn, 1954, 1955
- P. sativum* var. *arvense*, (L.) Poir.
- V. bean yellow mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954
  - V. broad bean mottle  
Yu, T.F., 1939
  - V. pea enation mosaic  
Osborn, H.T., 1938
  - V. pea mosaic  
Hagedorn, D.J., 1948  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1934, 1935
  - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Osborn, H.T., 1937
  - V. tobacco ring spot  
LeBeau, F.J., 1947
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
- P. sativum* var. *saccharatum*, Hort.
- V. bean yellow mosaic  
Pierce, W.H., 1935
  - V. pea enation mosaic  
Pierce, W.H., 1935
  - V. pea mosaic  
Pierce, W.H., 1935
  - V. pea wilt  
Pierce, W.H., 1935
- PITTIOSPORUM Banks, ex Gaertn. 1788 (Pittosporaceae)
- P. crassifolium*, Cunn.  
V. lucerne dwarf  
Freitag, J.H., 1951
- PLANTAGO Tourn. L. 1735 (Plantaginaceae)
- P. erecta*, Morris
- V. beet curly top  
Giddings, N.J., 1938, 1944  
Severin, Henry H.P., 1934
  - V. beet yellows  
Roland, T. and J. Tahon, 1961
- P. insularis*, Eastw.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
- P. lanceolata*, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961

- Plantago lanceolata*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1957  
 Harrison, B.C., 1955  
 Holmes, Francis O., 1938, 1941, 1946, 1950  
 McKinney, H.H., 1952  
 V. tobacco ring spot  
 Price, W.C., 1940
- P. major*, L.  
 V. aster yellows  
 Frazier, Norman W. and Harold E. Thomas, 1953  
 Freitag, J.H., 1956  
 Kunkel, L.O., 1926, 1928  
 Severin, Henry H.P., 1929, 1934  
 V. beet curly top  
 Giddings, N.J., 1944  
 Severin, Henry H.P., 1934  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. clover witches' broom \*  
 Frazier, N.W. and A.F. Posnette, 1957  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1956  
 Harrison, B.D., 1955  
 Holmes, Francis O., 1938, 1941, 1946, 1950  
 Valteau, W.D. and E.M. Johnson, 1943  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- P. rugelii*, Dcne.  
 V. tobacco mosaic  
 Boyle, John S. and David C. Wharton, 1957  
 Holmes, Francis O., 1938, 1946, 1950  
 McKinney, H.H., 1952
- P. rumosa*, L. \*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. spp.*  
 V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958
- P. virginica*, L.  
 V. prunus B \*  
 Fulton, Robert W., 1957
- PLATYCODON A. DC. 1830 (Campanulaceae)  
*P. grandiflorum*, DC.  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- POA L. 1737 (Gramineae)  
*P. ampla*, Merr.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- P. annua*, L.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- P. bulbosa*, L.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951
- P. canbyi*, (Scribn.) Piper  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- P. compressa*, L.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951  
 Slykhuis, John T., 1954, 1955
- P. pratensis*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. rice dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. stenantha*, Turcz. ex Steud.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951
- POLANISIA Rafin. 1818 (Capparidaceae)  
*P. trachysperma*, Torr. & Gray  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940
- POLEMONIUM ((Tourn.)) L. 1735 (Polemoniaceae)  
*P. caeruleum*, L.  
 V. cucumber mosaic  
 Faan, Hwei Chung and James Johnson, 1951
- POLYANTHUS Auct. ex Benth. & Hook. 1883  
*P. spp.* (Amaryllidaceae)  
 V. tobacco necrosis  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- POLYGONUM ((Tourn.)) L. 1735 (Polygonaceae)  
*P. amphibium*, L., var. *hartwrightii*, Bissel  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- P. aviculare*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Carsner, E., 1919  
 Severin, Henry H.P., 1929, 1934  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. datura rugose leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- P. convolvulus*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. erectum*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- P. hydropiper*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- P. lapathifolium*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- P. muhlenbergii*, (Meissn.) S. Wats.  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934
- P. pensylvanicum*, L.  
 V. dodder latent mosaic  
 Bennett, C.W., 1944
- P. persicariae*, L. \*  
 V. tobacco streak  
 Fulton, Robert W., 1948
- P. persicaria*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934  
 V. beet ring spot \*  
 Harrison, B.D., 1957

- Polygonum persicaria*, L. (cont.)  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- P.* spp.  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- PORTULACA L. 1735 (Portulacaceae)  
*P.* grandiflora, Hook.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940
- P.* oleracea, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. clover big vein  
 Black, L.M., 1945  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco streak  
 Fulton, Robert W., 1948
- POTENTILLA L. 1735 (Rosaceae)  
*P.* monspeliensis, L.  
 V. rose mosaic  
 Fulton, Robert W., 1952  
 V. tobacco streak  
 Fulton, Robert W., 1948
- P.* palustris, (L.) Scop.  
 V. prunus G \*  
 Fulton, Robert W., 1957
- P.* recta, L.  
 V. rose mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Fulton, Robert W., 1952
- P.* simplex, Michx.  
 V. strawberry mottle  
 Demaree, J.B. and C.P. Marcus, 1951  
 V. strawberry, type 2 \*  
 Demaree, J.B. and C.P. Marcus, 1951
- PRIMULA L. 1735 (Primulaceae)  
*P.* elatior, Hill  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- P.* malacoides, Franch.  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Bawden, F.C. and B. Kassanis, 1947  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P.* obconica, Hance  
 V. aster yellows  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Govier, D.A., 1957  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Smith, Kenneth M., 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. lucerne mosaic  
 Price, W.C., 1940  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. primula mosaic  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. tobacco necrosis  
 Bawden, F.C. and B. Kassanis, 1947  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 Severin, Henry H.P. and C.M. Tompkins, 1950
- P.* polyantha, Mill.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- P.* saxatalis, Komar  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- P.* sinensis, Lindl.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Smith, Kenneth M., 1935  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P.* sinensis var. stellata, Hort.  
 V. tomato aspermy  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P.* veris, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936
- P.* vulgaris, Huds.  
 V. tobacco necrosis  
 Bawden, F.C. and B. Kassanis, 1947
- PROBOSCIDEA Schmid. 1747 (Martyniaceae)  
*P.* louisiana, (Mill.) Thell.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940
- PRUNELLA L. 1753 (Labiatae)  
*P.* vulgaris, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- PRUNUS ((Tourn.)) L. 1735 (Rosaceae)  
 (AMYGDALUS) ((Tourn.)) L. 1735  
*P.* alabamensis, Mohr  
 V. peach ring spot  
 Gilmer, R.M., 1955

- Prunus alleghaniensis*, Porter  
 V. peach ring spot  
 Gilmer, R. M., 1955
- P. americana*, Marsh.  
 V. peach mosaic  
 Richards, B. L. and L. C. Cochran, 1956  
 V. peach ring spot  
 Gilmer, R. M., 1954, 1955  
 Moore, J. Duain and G. W. Keitt, 1946  
 V. peach X disease  
 Gilmer, R. M., J. Duain Moore and G. W. Keitt, 1954  
 Hildebrand, E. M., 1953  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- P. americana* var. *mollis*, Torr. & Gray  
 V. peach western X disease  
 Schneider, Henry, 1945
- P. americana* x *P. salicina*, Lindl.  
 V. apple mosaic  
 Gilmer, R. M., 1956  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
 V. plum white spot  
 Valteau, W. D., 1932  
 V. *prunus* A \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 V. *prunus* B \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 V. *prunus* E \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 V. *prunus* G \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957
- P. amygdalus*, Batsch  
 V. almond bud failure  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. almond calico  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. cherry rugose mosaic  
 Nyland, George, 1954  
 V. peach asteroid spot  
 Richards, B. L. and L. C. Cochran, 1956  
 V. peach mosaic  
 Cochran, L. C. and L. M. Hutchins, 1937, 1938  
 V. peach ring spot  
 Cochran, L. C. and Lee M. Hutchins, 1941  
 V. peach rosette  
 McClintock, J. A., 1923  
 V. peach X disease  
 Palmiter, D. H. and E. M. Hildebrand, 1943  
 V. peach yellow bud mosaic  
 Thomas, H. Earl, 1940  
 Thomas, H. Earl, C. Emlen Scott, E. E. Wilson  
 and J. H. Freitag, 1944  
 V. phony peach  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- P. andersoni*, A. Gray  
 V. peach ring spot  
 Gilmer, R. M., 1955  
 V. peach yellow bud mosaic  
 Thomas, H. Earl, 1940  
 Thomas, H. Earl and T. E. Rawlins, 1939
- P. angustifolia*, Marsh.  
 V. peach mosaic  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Gilmer, R. M., 1955  
 V. peach rosette  
 McClintock, J. A., 1923  
 V. phony peach  
 Bruer, H. L. and C. E. Shepard, 1952  
 Bruer, H. L., C. E. Shepard and T. D. Persons, 1951  
 Cochran, L. C., J. H. Weinberger and W. F. Turner, 1951  
 Hutchins, Lee M., L. C. Cochran, W. F. Turner  
 and J. H. Weinberger, 1953  
 Hutchins, Lee M. and John L. Rue, 1949  
 KenKnight, Glenn, H. L. Bruer and C. E. Shepard,  
 1951
- P. apetala*, Franch. & Sav.  
 V. peach ring spot  
 Gilmer, R. M., 1954, 1955
- P. armeniaca*, L.  
 V. apricot moorpark mottle  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. apricot ring pox  
 Reeves, E. L. and Philip W. Cheney, 1956  
 Simonds, Austin O., 1951  
 V. cherry bark splitting \*  
 Cameron, H. Ronald, 1954  
 V. cherry rasp leaf  
 Posnette, A. F., 1954  
 V. cherry rusty mottle  
 Posnette, A. F., 1954  
 V. peach asteroid spot  
 Richards, B. L. and L. C. Cochran, 1956  
 V. peach little peach  
 Manns, T. F., 1942  
 V. peach mosaic  
 Bodine, E. W. and L. W. Durrell, 1941  
 Cochran, L. C. and L. M. Hutchins, 1937, 1938  
 Thomas, H. Earl and T. E. Rawlins, 1939  
 V. peach ring spot  
 Gilmer, R. M., 1954, 1955  
 Posnette, A. F., 1954  
 Yarwood, C. E., 1957  
 V. peach rosette  
 McClintock, J. A., 1923  
 V. peach western X disease  
 Rawlins, T. E. and H. Earl Thomas, 1941  
 V. peach X disease  
 Palmiter, D. H. and E. M. Hildebrand, 1943  
 V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagnon and James R.  
 Breece, 1957  
 Thomas, H. Earl and T. E. Rawlins, 1939  
 Thomas, H. Earl, C. Emlen Scott, E. E. Wilson  
 and J. H. Freitag, 1944  
 V. peach yellows  
 Manns, T. F., 1942  
 V. phony peach  
 Hutchins, Lee M. and John L. Rue, 1949  
 V. plum line pattern  
 Bodine, E. W. and L. W. Durrell, 1941  
 Willison, R. S., 1945  
 V. prune dwarf  
 Moore, J. Duain and H. R. Cameron, 1956  
 Willison, R. S., 1944  
 V. (sour) cherry yellows  
 Moore, J. Duain and H. R. Cameron, 1956  
 V. stone fruit necrotic ring spot \*  
 Moore, J. Duain and H. R. Cameron, 1956  
 V. stone fruit ring spot \*  
 Richards, B. L. and L. C. Cochran, 1956
- P. armeniaca* var. *mandshurica*, Maxim.  
 V. peach ring spot  
 Gilmer, R. M., 1955  
 V. peach X disease  
 Hildebrand, E. M., 1953
- P. avium*, L.  
 V. almond calico  
 Thomas, H. Earl and T. E. Rawlins, 1939  
 V. apple mosaic  
 Posnette, A. F. and Christina E. Ellenberger,  
 1957  
 V. cherry albino  
 Zeller, S. M., J. A. Milbrath and C. B. Cordy,  
 1944  
 V. cherry black canker  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. cherry bud abortion disease \*  
 Milbrath, J. A. and H. E. Williams, 1956  
 V. cherry dusty yellows  
 Posnette, A. F., 1954  
 V. cherry freckle fruit disease \*  
 Williams, H. E. and J. A. Milbrath, 1955  
 V. cherry (frogmore) canker \*  
 Posnette, A. F. and R. Croypley, 1957  
 V. cherry little cherry  
 Blodgett, E. C., E. L. Reeves, C. M. Wright and  
 H. E. Williams, 1948  
 Foster, W. R. and T. B. Lott, 1947  
 Milbrath, J. A. and H. E. Williams, 1956  
 Reeves, E. L. and Philip W. Cheney, 1956  
 Welsh, Maurice F., 1952

- Prunus avium*, L. (cont.)
- V. cherry little cherry
    - Wilks, J.M. and M.F. Welsh, 1955
    - Wilks, Jack M. and J.A. Milbrath, 1956
  - V. cherry midleaf necrosis \*
    - Milbrath, J.A., 1957
  - V. cherry mora
    - Milbrath, J.A., 1952
  - V. cherry mottle \*
    - Hildebrand, E.M., 1944
  - V. cherry mottle leaf
    - Lott, T.B., 1945
    - Reeves, E.L., 1941
    - Richards, B.L. and L.C. Cochran, 1956
    - Zeller, S.M. and A.W. Evans, 1941
  - V. cherry necrotic etch \*
    - Posnette, A.F., 1954
  - V. cherry necrotic line pattern
    - Posnette, A.F. and R. Cropley, 1956
  - V. cherry necrotic rusty mottle
    - Afanasiev, M.M. and H.E. Morris, 1954
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Lott, T.B., 1945
    - Reeves, E.L. and B.L. Richards, 1946
    - Richards, B.L. and L.C. Cochran, 1956
    - Richards, B.L. and Bryce N. Wadley, 1950
  - V. cherry pinto leaf
    - Kienholz, J.R., 1947
  - V. cherry rasp leaf
    - Blodgett, Earle C., 1943
    - Bodine, E.W. and J.H. Newton, 1942
    - Milbrath, J.A., 1954
    - Posnette, A.F., 1954
    - Posnette, A.F. and R. Cropley, 1956
    - Richards, B.L. and L.C. Cochran, 1956
  - V. cherry rugose mosaic
    - Berkeley, G.H., 1950
    - Nyland, George, 1954
    - Posnette, A.F., 1954
    - Posnette, A.F. and R. Cropley, 1956
    - Richards, B.L. and L.C. Cochran, 1956
    - Thomas, H. Earl and T.E. Rawlins, 1939
  - V. cherry rusty mottle
    - Posnette, A.F., 1954
    - Posnette, A.F. and R. Cropley, 1956
    - Reeves, E.L., 1940
    - Zeller, S.M. and J.A. Milbrath, 1947
  - V. cherry sunken mottle \*
    - Posnette, A.F., 1954
  - V. cherry twisted leaf
    - Lott, T.B., 1943
    - Reeves, E.L. and Philip W. Cheney, 1956
  - V. cherry vein clearing \*
    - Zeller, S.M. and A.W. Evans, 1941
  - V. clover enation \*
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. elm mosaic
    - Callahan, Kemper L. and J. Duain Moore, 1957
  - V. (flowering) cherry rough bark
    - Nichols, Carl W. and R.L. McClain, 1957
  - V. peach asteroid spot
    - Richards, B.L. and L.C. Cochran, 1956
  - V. peach mottle
    - Blodgett, Earle C., 1941
  - V. peach necrotic leaf spot
    - Cation, Donald, 1942
    - Richards, B.L. and L.C. Cochran, 1956
  - V. peach ring spot
    - Cation, Donald, 1952
    - Cochran, L.C. and Lee M. Hutchins, 1941
    - Gilmer, R.M., 1954, 1955
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Hildebrand, E.M., 1944
    - Milbrath, J.A., 1950
    - Millikan, D.F., 1953, 1955
    - Posnette, A.F., 1954
    - Posnette, A.F. and R. Cropley, 1956
    - Tomlinson, N., 1955
    - Willison, R.S. and G.H. Berkeley, 1946
  - V. peach rosette
    - McClintock, J.A., 1923
  - V. peach wart
    - Zeller, S.M. and J.A. Milbrath, 1945
- P. avium*, L. (cont.)
- V. peach western X disease
    - Jensen, D.D. and H. Earl Thomas, 1954, 1955
    - Kaloostian, George H., 1951
    - Kaloostian, George H., Mervin W. Nielson and L.S. Jones, 1951
    - Lott, T.B., 1950
    - Rawlins, T.E., 1939
    - Rawlins, T.E. and W.T. Horne, 1931
    - Rawlins, T.E. and K.G. Parker, 1934
    - Rawlins, T.E. and H. Earl Thomas, 1941
    - Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949
    - Richards, B.L., E.L. Reeves and L.M. Hutchins, 1946
    - Schneider, Henry, 1945
    - Thomas, H. Earl, 1940
    - Thomas, H. Earl and T.E. Rawlins, 1941
    - Wadley, Bryce N., 1952
    - Wilks, Jack M. and J.A. Milbrath, 1956
    - Zeller, S.M. and J.A. Milbrath, 1948, 1950
  - V. peach X disease
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
  - V. peach yellow bud mosaic
    - Thomas, H. Earl, 1940
    - Thomas, H. Earl and T.E. Rawlins, 1939
  - V. plum line pattern
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Richards, B.L. and L.C. Cochran, 1956
    - Willison, R.S., 1945
    - Zeller, S.M. and J.A. Milbrath, 1942
  - V. prune dwarf
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Willison, R.S., 1944
  - V. (sour) cherry yellows
    - Cation, Donald, 1952
    - Richards, B.L. and L.C. Cochran, 1956
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. stone fruit ring spot \*
    - Heinis, Julius L., 1956
    - Heinis, J.L. and J.A. Milbrath, 1954
    - Richards, B.L. and L.C. Cochran, 1956
  - V. tobacco ring spot
    - Wilkinson, R.E., 1952
- P. avium* on *P. avium*, L.
- V. peach western X disease
    - Richards, B.L. and L.C. Cochran, 1956
- P. avium* x *P. cerasus*, L.
- V. cherry mottle leaf
    - Reeves, E.L., 1941
  - V. cherry necrotic rusty mottle
    - Richards, B.L. and L.C. Cochran, 1956
  - V. peach mosaic
    - Bodine, E.W. and L.W. Durrell, 1941
- P. avium* on *P. mahaleb*, L.
- V. peach western X disease
    - Richards, B.L. and L.C. Cochran, 1956
- P. besseyi*, Bailey
- V. elm mosaic
    - Callahan, Kemper L. and J. Duain Moore, 1957
  - V. peach mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. peach necrotic leaf spot
    - Fridlund, Paul R., 1954
  - V. peach ring spot
    - Gilmer, R.M., 1954, 1955
    - Moore, J. Duain and G.W. Keitt, 1946
  - V. peach western X disease
    - Richards, B.L. and L.C. Cochran, 1956
  - V. peach X disease
    - Fridlund, Paul R., 1954
    - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
    - Hildebrand, E.M., 1943, 1953
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954

- Prunus besseyi*, Bailey x *P. hortulana*, Bailey  
 V. peach necrotic leaf spot  
 Fridlund, Paul R., 1954
- P. besseyi* x *P. salicina*, Lindl.  
 V. peach necrotic leaf spot  
 Fridlund, Paul R., 1954
- P. blirieana*, Carr.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. bokhariensis*, Royle  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. bucharica*, B. Fedtsch.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. campanulata*, Maxim.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. canescens*, Vilm. & Bois.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. caroliniana*, (Mill.) Ait.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. cerasifera*, Ehrh.  
 V. apple mosaic  
 Posnette, A.F. and Christina E. Ellenberger, 1957  
 V. apricot moorpark mottle  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cherry rasp leaf  
 Posnette, A.F., 1954  
 V. cherry rugose mosaic  
 Posnette, A.F., 1954  
 V. peach little peach  
 Manns, T.F., 1942  
 V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Cochran, L.C. and Lee M. Hutchins, 1941  
 Gilmer, R.M., 1954, 1955  
 Posnette, A.F., 1954  
 Willison, R.S. and G.H. Berkeley, 1946  
 V. peach yellows  
 Manns, T.F., 1942  
 V. plum bark split  
 Posnette, A.F. and Christina E. Ellenberger, 1957  
 V. plum line pattern  
 Cochran, L.C. and L.M. Hutchins, 1937  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Richards, B.L. and L.C. Cochran, 1956  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 Willison, R.S., 1945  
 V. prune dwarf  
 Willison, R.S., 1944
- P. cerasifera* var. *pissardii*, Koehne  
 V. peach little peach  
 Manns, T.F., 1942  
 V. peach ring spot  
 Gilmer, R.M., 1954  
 V. peach yellows  
 Manns, T.F., 1942
- P. cerasoides*, D. Don  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. cerasus*, L.  
 V. cherry bark splitting \*  
 Cameron, H. Ronald, 1954  
 Milbrath, J.A., 1957  
 V. cherry bud abortion disease \*  
 Milbrath, J.A. and H.E. Williams, 1956  
 V. cherry dusty yellows  
 Posnette, A.F., 1954  
 V. cherry green ring mottle \*  
 Fink, Harry C., 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Parker, K.G. and E.J. Klos, 1953  
 V. cherry little cherry  
 Milbrath, J.A. and H.E. Williams, 1956  
 Wilks, Jack M. and J.A. Milbrath, 1956
- P. cerasus*, L. (cont.)  
 V. cherry midleaf necrosis \*  
 Milbrath, J.A., 1957  
 V. cherry mottle leaf  
 Reeves, E.L., 1941  
 Richards, B.L. and L.C. Cochran, 1956  
 V. cherry necrotic rusty mottle  
 Richards, B.L. and L.C. Cochran, 1956  
 Richards, B.L. and Bryce N. Wadley, 1950  
 V. cherry rasp leaf  
 Blodgett, Earle C., 1943  
 Posnette, A.F., 1954  
 Richards, B.L. and L.C. Cochran, 1956  
 V. cherry rugose mosaic  
 Berkeley, G.H., 1950  
 Hildebrand, E.M., 1944  
 Posnette, A.F., 1954  
 Richards, B.L. and L.C. Cochran, 1956  
 V. cherry rusty mottle  
 Posnette, A.F., 1954  
 Zeller, S.M. and J.A. Milbrath, 1947  
 V. elm mosaic  
 Callahan, Kemper L. and J. Duain Moore, 1957  
 V. peach mottle  
 Blodgett, Earle C., 1941  
 V. peach necrotic leaf spot  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach ring spot  
 Berkeley, G.H. and R.S. Willison, 1948  
 Cation, Donald, 1949, 1952  
 Fink, Harry C., 1950, 1955  
 Fulton, Robert W., 1956  
 Gilmer, R.M., 1954, 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Hildebrand, E.M., 1944  
 Milbrath, J.A., 1950, 1952, 1957  
 Millikan, D.F. and A.D. Hibbard, 1952  
 Moore, J. Duain and G.W. Keitt, 1944, 1946  
 Moore, J. Duain and D.A. Slack, 1952  
 Nyland, George, 1952  
 Parker, K.G. and L.C. Cochran, 1951  
 Posnette, A.F., 1954  
 Willison, R.S. and G.H. Berkeley, 1946  
 V. peach rosette mosaic  
 Fink, Harry C., 1955  
 V. peach stunt \*  
 Milbrath, J.A., 1957  
 V. peach western X disease  
 Kaloostian, George H., 1951  
 Nielson, Mervin W. and Laurence S. Jones, 1954  
 Rawlins, T.E. and K.G. Parker, 1934  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949  
 Richards, B.L., E.L. Reeves and Lee M. Hutchins, 1946  
 Schneider, Henry, 1945  
 Wilks, Jack M. and J.A. Milbrath, 1956  
 Zeller, S.M. and J.A. Milbrath, 1948, 1950  
 V. peach X disease  
 Fridlund, Paul R., 1954  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 Hildebrand, E.M., 1953  
 Palmiter, D.H. and K.G. Parker, 1948  
 Parker, K.G. and D.H. Palmiter, 1948  
 V. plum line pattern  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1945  
 V. prune dwarf  
 Fink, Harry C., 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Milbrath, J.A., 1957  
 Moore, J. Duain and H.R. Cameron, 1956  
 Willison, R.S., 1944  
 V. prunus A \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Ehlers, Clifford G. and J. Duain Moore, 1957



- Prunus cerasus*, L. (cont.)
- V. *prunus* B \*
  - Fulton, Robert W., 1957
  - V. *prunus* E \*
  - Ehlers, Clifford G. and J. Duain Moore, 1957
  - Fulton, Robert W., 1957
  - V. *prunus* G \*
  - Ehlers, Clifford G. and J. Duain Moore, 1957
  - Fulton, Robert W., 1957
  - V. (sour) cherry yellows
  - Berkeley, G.H. and R.S. Willison, 1948
  - Cation, Donald, 1952
  - Fink, Harry C., 1955
  - Fulton, Robert W., 1956
  - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
  - Hildebrand, E.M., 1942, 1943, 1944
  - Hildebrand, E.M. and W.D. Mills, 1941
  - Keitt, G.W. and C.N. Clayton, 1939, 1940, 1941, 1943
  - Milbrath, J.A., 1957
  - Moore, J. Duain and H.R. Cameron, 1956
  - Moore, J. Duain and G.W. Keitt, 1944, 1946
  - Moore, J. Duain and D.A. Slack, 1952
  - Nyland, George, 1952
  - Rasmussen, E.J. and Donald Cation, 1942
  - Richards, B.L. and L.C. Cochran, 1956
  - V. stone fruit \*
  - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. stone fruit necrotic ring spot \*
  - Moore, J. Duain and H.R. Cameron, 1956
  - V. stone fruit ring spot \*
  - Heinis, J.L. and J.A. Milbrath, 1954
  - Millikan, D.F., 1955
  - Richards, B.L. and L.C. Cochran, 1956
  - P. cerasus* var. *umbraculifera* \*
  - V. cherry rasp leaf
  - Milbrath, J.A., 1954
  - P. cerasus* on *P. avium*, L.
  - V. peach western X disease
  - Richards, B.L. and L.C. Cochran, 1956
  - P. cerasus* on *P. mahaleb*, L.
  - V. peach western X disease
  - Richards, B.L. and L.C. Cochran, 1956
  - P. cistena* \*
  - V. peach ring spot
  - Gilmer, R.M., 1954, 1955
  - Young, H.C., Jr., 1951
  - P. communis*, Fritsch
  - V. almond calico
  - Thomas, H. Earl and T.E. Rawlins, 1939
  - V. peach little peach
  - Manns, T.F., 1942
  - V. peach mosaic
  - Bodine, E.W. and L.W. Durrell, 1941
  - V. peach ring spot
  - Gilmer, R.M., 1954, 1955
  - V. peach western X disease
  - Rawlins, T.E. and H. Earl Thomas, 1941
  - V. peach X disease
  - Hildebrand, E.M., 1953
  - V. peach yellow bud mosaic
  - Thomas, H. Earl and T.E. Rawlins, 1939
  - V. peach yellows
  - Manns, T.F., 1942
  - P. communis* x *P. fenzliana*, Fritsch
  - V. peach western X disease
  - Rawlins, T.E. and H. Earl Thomas, 1941
  - P. conradinae*, Koehne
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - P. cyclamina*, Koehne
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - P. dasycarpa*, Ehrh.
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - P. davidiana*, (Carr.) Franch. (*Amygdalus davidiana*, (Carr.) Zabel)
  - V. peach mosaic
  - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - P. davidiana*, (Carr.) Franch. (*Amygdalus davidiana*, (Carr.) Zabel) (cont.)
  - V. peach western X disease
  - Rawlins, T.E. and H. Earl Thomas, 1941
  - V. phony peach
  - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - P. davidiana* x *P. communis*, Fritsch
  - V. peach western X disease
  - Rawlins, T.E. and H. Earl Thomas, 1941
  - P. demissa*, (Nutt.) Walp.
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - V. peach western X disease
  - Richards, B.L. and Lee M. Hutchins, 1941
  - Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949
  - Wilks, Jack M. and J.A. Milbrath, 1956
  - Zeller, S.M. and J.A. Milbrath, 1950
  - P. demissa* var. *melanocarpa*, (A. Nels.) Sarg.
  - V. peach X disease
  - Hildebrand, E.M., 1953
  - P. dielsiana* \*
  - V. peach ring spot
  - Gilmer, R.M., 1955
  - P. domestica*, L.
  - V. apple mosaic
  - Posnette, A.F. and Christina E. Ellenberger, 1957
  - V. apricot ring pox
  - Simonds, Austin O., 1951
  - V. cherry mottle \*
  - Hildebrand, E.M., 1944
  - V. cherry rugose mosaic
  - Nyland, George, 1954
  - V. cherry rusty mottle
  - Zeller, S.M. and J.A. Milbrath, 1947
  - V. elm mosaic
  - Callahan, Kemper L. and J. Duain Moore, 1957
  - V. peach asteroid spot
  - Richards, B.L. and L.C. Cochran, 1956
  - V. peach little peach
  - Manns, T.F., 1942
  - V. peach mosaic
  - Bodine, E.W., 1937
  - Bodine, E.W. and L.W. Durrell, 1941
  - Cochran, L.C. and L.M. Hutchins, 1937, 1938
  - V. peach ring spot
  - Berkeley, G.H., 1947
  - Berkeley, G.H. and R.S. Willison, 1948
  - Gilmer, R.M., 1954, 1955
  - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
  - Moore, J. Duain, 1951
  - Willison, R.S. and G.H. Berkeley, 1946
  - V. peach rosette
  - McClintock, J.A., 1923, 1931
  - V. peach rosette mosaic
  - Cation, Donald, 1942
  - V. peach X disease
  - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - Gilmer, R.M., 1951
  - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
  - V. peach yellows
  - Manns, T.F., 1942
  - V. plum bark split
  - Posnette, A.F. and Christina E. Ellenberger, 1957
  - V. plum line pattern
  - Bodine, E.W. and L.W. Durrell, 1941
  - Cochran, L.C. and L.M. Hutchins, 1937, 1938
  - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
  - Moore, J. Duain and H.R. Cameron, 1956
  - Willison, R.S., 1945
  - V. plum white spot
  - Valleau, W.D., 1932
  - V. prune diamond canker
  - Smith, Ralph E., 1941
  - Yarwood, C.E. and H.E. Thomas, 1954
  - V. prune dwarf
  - Cochran, L.C., 1956
  - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957

- Prunus domestica*, L. (cont.)
- V. prune dwarf
    - Hildebrand, E.M., 1942
    - Moore, J. Duain and H.R. Cameron, 1956
    - Richards, B.L. and L.C. Cochran, 1956
    - Thomas, H.E. and E.M. Hildebrand, 1936
    - Willison, R.S., 1944
  - V. (sour) cherry yellows
    - Berkeley, G.H., 1947
    - Berkeley, G.H. and R.S. Willison, 1948
    - Hildebrand, E.M., 1944
    - Moore, J. Duain, 1951
    - Moore, J. Duain and H.R. Cameron, 1956
    - Richards, B.L. and L.C. Cochran, 1956
  - V. (standard) prune constricting mosaic (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Thomas, H. Earl and T.E. Rawlins, 1939
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. stone fruit necrotic ring spot \*
    - Fridlund, Paul R., 1954
    - Moore, J. Duain and H.R. Cameron, 1956
  - V. stone fruit ring spot \*
    - Richards, B.L. and L.C. Cochran, 1956
  - P. dropmoreana* \*
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
  - P. dunbarii*, Rehder
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
    - V. peach X disease (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
      - Gilmer, R.M., 1951
      - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
    - V. stone fruit \*
      - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - P. effusa* \*
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. emarginata*, (Dougl.) Walp.
    - V. cherry mottle leaf
      - Reeves, E.L., 1941
      - Richards, B.L. and L.C. Cochran, 1956
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. fasciculata*, A. Gray
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. fenzliana*, Fritsch
    - V. peach ring spot
      - Gilmer, R.M., 1955
    - V. peach western X disease
      - Rawlins, T. E. and H. Earl Thomas, 1941
  - P. fontanesiana*, Schneid.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. fremonti*, S. Wats.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. fruticosa*, Pall.
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
  - P. gigantea* \*
    - V. apple mosaic
      - Posnette, A.F. and Christina E. Ellenberger, 1957
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. glandulifolia*, Rupr. ex Maxim.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. glandulosa*, Thunb.
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
    - V. peach X disease (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
      - Gilmer, R.M., 1951
      - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
    - V. stone fruit \*
      - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - P. gracilis*, Engelm. & Gray
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. gravesii*, Small
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. grayana*, Maxim.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. hillieri* \*
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. hortulana*, Bailey
    - V. peach ring spot
      - Gilmer, R.M., 1955
    - V. peach X disease
      - Hildebrand, E.M., 1953
    - V. phony peach
      - Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953
      - Hutchins, Lee M. and John L. Rue, 1949
  - P. hybrid*
    - V. plum line pattern
      - Richards, B.L. and L.C. Cochran, 1956
  - P. ilicifolia*, (Nutt.) Walp.
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
  - P. incana*, Stev.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. incisa*, Thunb.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. insititia*, L.
    - V. apple mosaic
      - Posnette, A.F. and Christina E. Ellenberger, 1957
    - V. peach little peach
      - Manns, T.F., 1942
    - V. peach mosaic
      - Bodine, E.W. and L.W. Durrell, 1941
    - V. peach ring spot
      - Gilmer, R.M., 1955
    - V. peach rosette (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - V. peach yellows
      - Manns, T.F., 1942
    - V. prune dwarf
      - Hildebrand, E.M., 1942
  - P. jacquemontii*, Hook. f.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. japonica*, Thunb.
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
    - V. peach X disease
      - Fridlund, Paul R., 1954
      - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
      - Hildebrand, E.M., 1953
    - V. stone fruit \*
      - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - P. juddii*, X E. Anders.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. kansuensis*, Rehder
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. lanata*, Mack. & Bush.
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. lannesiana*, Wils.
    - V. peach ring spot
      - Gilmer, R.M., 1955
    - V. peach X disease
      - Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
  - P. lauchiana*, Bolle
    - V. peach ring spot
      - Gilmer, R.M., 1955
  - P. laurocerasus*, L.
    - V. peach ring spot
      - Gilmer, R.M., 1954, 1955
  - P. lobulata*, Koehne
    - V. peach ring spot
      - Gilmer, R.M., 1955

- Prunus lusitanica*, L.  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach yellow bud mosaic  
 Thomas, H. Earl, 1940
- P. lycioides*, C.K. Schneid.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. lyoni*, (Eastw.) Sarg.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. maackii*, Rupr.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955  
 V. peach X disease  
 Gilmer, R.M., 1951  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- P. mahaleb*, L.  
 V. cherry chlorosis \*  
 Keitt, G.W. and C.N. Clayton, 1941  
 V. cherry mottle leaf  
 Reeves, E.L., 1941  
 V. cherry rasp leaf  
 Posnette, A.F., 1954  
 V. cherry rugose mosaic  
 Berkeley, G.H., 1950  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 V. cherry rusty mottle  
 Zeller, S.M. and J.A. Milbrath, 1947  
 V. elm mosaic  
 Callahan, Kemper L. and J. Duain Moore, 1957  
 V. peach ring spot  
 Berkeley, G.H. and R.S. Willison, 1948  
 Cation, Donald, 1949, 1952  
 Cochran, L.C. and Lee M. Hutchins, 1941  
 Fink, Harry C., 1950, 1955  
 Gilmer, R.M., 1954, 1955  
 Milbrath, J.A., 1957  
 Posnette, A.F., 1954  
 Willison, R.S. and G.H. Berkeley, 1946  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 Schneider, Henry, 1945  
 V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 V. plum line pattern  
 Cation, Donald, 1941  
 Willison, R.S., 1945  
 V. prune dwarf  
 Willison, R.S., 1944  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. (sour) cherry yellows  
 Berkeley, G.H. and R.S. Willison, 1948  
 Cation, Donald, 1949, 1952  
 Keitt, G.W. and C.N. Clayton, 1943  
 Rasmussen, E.J. and Donald Cation, 1942  
 Richards, B.L. and L.C. Cochran, 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. stone fruit ring spot \*  
 Heinis, J.L. and J.A. Milbrath, 1954
- P. makii* \*  
 V. peach X disease  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. maritima*, Marsh.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955  
 V. peach X disease  
 Gilmer, R.M., 1951  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- P. maximowiczii*, Rupr.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. mexicana*, S. Wats.  
 V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. phony peach  
 Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953  
 Hutchins, Lee M. and John L. Rue, 1949
- P. meyeri*, Boeckel  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. mira*, Koehne  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. mira* x *P. persica*, (L.) Batsch  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. mollis*, Walp.  
 V. cherry little cherry  
 Wilks, J.M. and M.F. Welsh, 1955
- P. monticola*, C. Koch  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. mugus*, Hand. -Mazz.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. mume*, Sieb. & Zucc.  
 V. peach asteroid spot  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach yellow bud mosaic  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 V. phony peach  
 Hutchins, Lee M. and John L. Rue, 1949
- P. munsoniana*, Wight & Hedr.  
 V. peach little peach  
 Manns, T.F., 1942  
 V. peach mosaic  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach X disease  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach yellows  
 Manns, T.F., 1942  
 V. phony peach  
 Bruer, H.L. and C.E. Shepard, 1952
- P. munsoniana* x *P. salicina*, Lindl.  
 V. peach little peach  
 Manns, T.F., 1942  
 V. peach yellows  
 Manns, T.F., 1942
- P. nana*, Stokes  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. newportii*, Hort.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955  
 V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- P. nigra*, Ait.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. nipponica*, Matsum.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. nipponica* var. *kurilensis*, (Miyabe) Wilson  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. padus*, L.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955

- Prunus padus*, L. (cont.)
- V. peach X disease (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- P. padus* var. *cornuta*, Henry
- V. peach ring spot  
Gilmer, R.M., 1955
- P. pensylvanica*, L. f.
- V. elm mosaic  
Callahan, Kemper L. and J. Duain Moore, 1957
  - V. peach ring spot  
Gilmer, R.M., 1954, 1955
  - V. peach X disease (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
  - V. *prunus* A \*  
Fulton, Robert W., 1957
  - V. *prunus* B \*  
Fulton, Robert W., 1957
  - V. *prunus* E \*  
Fulton, Robert W., 1957
  - V. *prunus* G \*  
Fulton, Robert W., 1957
  - V. (sour) cherry yellows  
Keitt, G.W. and C.N. Clayton, 1943
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- P. persica*, (L.) Batsch (*Amygdalus persica*, L.)
- V. almond calico  
Thomas, H. Earl and T.E. Rawlins, 1939
  - V. apple mosaic  
Kirkpatrick, Hugh C., 1955  
Posnette, A.F. and Christina E. Ellenberger, 1957
  - V. apricot moorpark mottle (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. apricot ring pox  
Simonds, Austin O., 1951  
Yarwood, C.E., 1957
  - V. cherry dusty yellows  
Posnette, A.F., 1954
  - V. cherry mottle leaf  
Richards, B.L. and L.C. Cochran, 1956
  - V. cherry necrotic etch \*  
Posnette, A.F., 1954
  - V. cherry necrotic rusty mottle  
Richards, B.L. and L.C. Cochran, 1956  
Richards, B.L. and Bryce N. Wadley, 1950
  - V. cherry rasp leaf  
Posnette, A.F., 1954
  - V. cherry rugose mosaic  
Berkeley, G.H., 1950  
Nyland, George, 1954  
Posnette, A.F., 1954  
Thomas, H. Earl and T.E. Rawlins, 1939
  - V. cherry rusty mottle  
Posnette, A.F., 1954  
Zeller, S.M. and J.A. Milbrath, 1947
  - V. cherry sunken mottle \*  
Posnette, A.F., 1954
  - V. cherry twisted leaf (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. elm mosaic  
Moore, J. Duain and E.H. Varney, 1954
  - V. (flowering) cherry rough bark  
Nichols, Carl W. and R.L. McClain, 1957
  - V. peach asteroid spot  
Clayton, C.N., 1949  
Cochran, L.C. and Clayton O. Smith, 1938  
Richards, B.L. and L.C. Cochran, 1956
  - V. peach blotch  
Willison, R.S., 1946
  - V. peach calico  
Blodgett, Earle C., 1944
  - V. peach little peach  
Cook, M.T., 1922  
Kunkel, L.O., 1936, 1938  
Manns, T.F., 1936, 1942
- P. persica*, (L.) Batsch (*Amygdalus persica*, L.) (cont.)
- V. peach mosaic  
Bennett, C.W., 1944  
Bodine, E.W., 1937, 1942  
Bodine, E.W. and L.W. Durrell, 1941  
Cation, D., 1934  
Cochran, L.C. and L.M. Hutchins, 1937  
Cochran, L.C. and John L. Rue, 1944, 1946  
Hutchins, L.M., 1933  
Hutchins, Lee M. and L.C. Cochran, 1940  
Kunkel, L.O., 1938  
Richards, B.L. and L.C. Cochran, 1956  
Stout, Gilbert L., 1939  
Wilson, Norton S., Laurence S. Jones and L.C. Cochran, 1955
  - V. peach mottle  
Blodgett, Earle C., 1941
  - V. peach necrotic leaf spot  
Cation, Donald, 1942  
Richards, B.L. and L.C. Cochran, 1956
  - V. peach red suture (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. peach ring spot  
Berkeley, G.H., 1947  
Berkeley, G.H. and R.S. Willison, 1948  
Cation, Donald, 1949  
Cochran, L.C., 1950, 1952  
Cochran, L.C. and Lee M. Hutchins, 1941  
Cochran, L.C. and R.L. McClain, 1951  
Fink, Harry C., 1950, 1955  
Gilmer, R.M., 1954, 1955, 1956  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Hildebrand, E.M., 1944  
Moore, J. Duain and G.W. Keitt, 1944  
Posnette, A.F., 1954  
Willison, R.S. and G.H. Berkeley, 1946  
Yarwood, C.E., 1957  
Young, H.C., Jr., 1951
  - V. peach rosette  
KenKnight, Glenn, 1957  
Kunkel, L.O., 1936, 1938  
McClintock, J.A., 1923, 1931
  - V. peach rosette mosaic  
Cation, Donald, 1942  
Hildebrand, E.M., 1941
  - V. peach wart  
Blodgett, Earle C., 1941, 1943, 1946  
Zeller, S.M. and J.A. Milbrath, 1945
  - V. peach western X disease  
Jensen, D.D., 1953, 1955, 1957  
Jensen, D.D. and H. Earl Thomas, 1954, 1955  
Kaloostian, George H., 1951  
Keener, Paul D., 1953  
Nielson, Mervin W. and Laurence S. Jones, 1954  
Nyland, George, 1955  
Nyland, George and Archie Schlocker, 1951  
Rawlins, T.E. and H. Earl Thomas, 1941  
Richards, B.L. and L.C. Cochran, 1956  
Richards, B.L. and Lee M. Hutchins, 1941  
Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949  
Schneider, Henry, 1945  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T.E. Rawlins, 1941  
Thomas, H. Earl, T.E. Rawlins and K.G. Parker, 1940  
Wadley, Bryce N., 1952  
Weathers, Lewis G. and George W. Cochran, 1950  
Wilks, Jack M. and J.A. Milbrath, 1956  
Wolfe, H.R., 1955  
Wolfe, H.R., E.W. Anthon and L.S. Jones, 1950  
Zeller, S.M. and J.A. Milbrath, 1948, 1950
  - V. peach X disease  
Fridlund, Paul R., 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1943, 1953  
Hildebrand, E.M. and D.H. Palmiter, 1940  
Kunkel, L.O., 1944  
Palmiter, D.H. and E.M. Hildebrand, 1943  
Palmiter, D.H. and K.G. Parker, 1948  
Parker, K.G. and D.H. Palmiter, 1948

- Prunus persica*, (L.) Batsch (*Amygdalus persica*, L.)  
 V. peach X disease (cont.)  
 Slack, Derald A., 1952  
 Stoddard, E.M., 1938, 1947  
 Thornberry, H.H., 1954
- V. peach yellow bud mosaic  
 Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955  
 Schlocker, Archie, H. Keith Wagnon and James R. Breece, 1957  
 Thomas, H. Earl, 1940  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 Thomas, H. Earl, C. Emlen Scott, E.E. Wilson and J.H. Freitag, 1944  
 Wagnon, H. Keith and James R. Breece, 1955  
 Yarwood, C.E., 1956, 1957  
 Yarwood, C.E. and H.E. Thomas, 1954
- V. peach yellows  
 Blake, M.A., Mel. T. Cook and C.H. Connors, 1921  
 Cook, M.T., 1922  
 Kunkel, L.O., 1936, 1938  
 Manns, T.F., 1936, 1942
- V. phony peach  
 Hutchins, L.M., 1929, 1939  
 Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953  
 Hutchins, Lee M. and John L. Rue, 1949  
 KenKnight, Glenn, 1957
- V. plum line pattern  
 Cation, Donald, 1941  
 Cochran, L.C. and L.M. Hutchins, 1937, 1938  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1945
- V. plum white spot  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 Valleau, W.D., 1932
- V. prune dwarf  
 Hildebrand, E.M., 1942  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1944
- V. (sour) cherry yellows  
 Berkeley, G.H., 1947  
 Berkeley, G.H. and R.S. Willison, 1948  
 Cation, Donald, 1949  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Hildebrand, E.M., 1942, 1943, 1944  
 Rasmussen, E.J. and Donald Cation, 1942  
 Richards, B.L. and L.C. Cochran, 1956  
 Young, H.C., Jr., 1951
- V. (standard) prune constricting mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Thomas, H. Earl and T.E. Rawlins, 1939
- V. stone fruit ring spot \*  
 Heinis, Julius L., 1956  
 Heinis, J.L. and J.A. Milbrath, 1954  
 Richards, B.L. and L.C. Cochran, 1956
- P. persica* var. *nectarina*, (Ait.) Maxim. (*Amygdalus persica* var. *nectarina*, Ait.)  
 V. peach asteroid spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. peach necrotic leaf spot  
 Richards, B.L. and L.C. Cochran, 1956
- V. peach western X disease  
 Richards, B.L. and L.C. Cochran, 1956
- V. peach X disease  
 Palmiter, D.H. and E.M. Hildebrand, 1943
- V. peach yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. phony peach  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. persica* var. *nucipersica*, Schneid.  
 V. peach X disease  
 Hildebrand, E.M., 1953
- P. petunnikowi*, Rehder  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. pilosiuscula*, Koehne  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. pleiocerasus*, Koehne  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. potanini* \*  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. pumila*, L.  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 Moore, J. Duain and G.W. Keitt, 1946
- V. peach rosette  
 McClintock, J.A., 1931
- V. peach X disease  
 Gilmer, R.M., 1951  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 Slack, Derald A., 1952
- V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- P. reverchonii*, Sarg.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. rufa*, Steud.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. salicina*, Lindl.  
 V. peach asteroid spot  
 Richards, B.L. and L.C. Cochran, 1956
- V. peach little peach  
 Manns, T.F., 1936, 1942
- V. peach mosaic  
 Bodine, E.W. and L.W. Durrell, 1941  
 Richards, B.L. and L.C. Cochran, 1956
- V. peach ring spot  
 Gilmer, R.M., 1953, 1954, 1955  
 Willison, R.S. and G.H. Berkeley, 1946
- V. peach rosette mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- V. peach yellows  
 Manns, T.F., 1936, 1942
- V. plum line pattern  
 Bodine, E.W. and L.W. Durrell, 1941  
 Cation, Donald, 1941  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Willison, R.S., 1945
- V. plum white spot  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 Valleau, W.D., 1932
- V. prune dwarf  
 Hildebrand, E.M., 1942  
 Willison, R.S., 1944
- P. salicina* x *P. simonii*, Carr.  
 V. peach mosaic  
 Bodine, E.W. and L.W. Durrell, 1941
- V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagnon and James R. Breece, 1957
- P. sargentii*, Rehd.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. scopulorum*, Koehne  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. serotina*, Ehrh.  
 V. elm mosaic  
 Callahan, Kemper L. and J. Duain Moore, 1957
- V. peach ring spot  
 Fink, Harry C., 1950, 1955  
 Gilmer, R.M., 1954, 1955
- V. peach X disease  
 Hildebrand, E.M., 1953
- V. prunus A \*  
 Fulton, Robert W., 1957
- V. prunus B \*  
 Fulton, Robert W., 1957
- V. prunus E \*  
 Fulton, Robert W., 1957
- V. prunus G \*  
 Fulton, Robert W., 1957

- Prunus serotina*, Ehrh. (cont.)  
 V. (sour) cherry yellows  
 Keitt, G.W. and C.N. Clayton, 1943  
 Richards, B.L. and L.C. Cochran, 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- P. serrula*, Franch.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. serrulata*, Lindl.  
 V. cherry little cherry  
 Milbrath, J.A. and H.E. Williams, 1956  
 V. cherry midleaf necrosis \*  
 Milbrath, J.A., 1957  
 V. cherry rusty mottle  
 Zeller, S.M. and J.A. Milbrath, 1947  
 V. cherry vein clearing \*  
 Zeller, S.M. and A.W. Evans, 1941  
 V. (flowering) cherry rough bark  
 Milbrath, J.A. and S.M. Zeller, 1942  
 Nichols, Carl W. and R.L. McClain, 1957  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Milbrath, J.A., 1952  
 Tomlinson, N., 1955  
 V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 V. plum line pattern  
 Richards, B.L. and L.C. Cochran, 1956  
 Zeller, S.M. and J.A. Milbrath, 1942  
 V. stone fruit ring spot \*  
 Heinis, Julius L., 1956  
 Heinis, J.L. and J.A. Milbrath, 1954  
 Richards, B.L. and L.C. Cochran, 1956
- P. setulosa*, Batalin  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. sibirica*, L.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. sieboldi*, (Carr.) Wittm.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955  
 V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- P. simonii*, Carr.  
 V. peach little peach  
 Manns, T.F., 1942  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach yellows  
 Manns, T.F., 1942
- P. skinneri*, X Rehder  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. slavini*, X Palmer  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. spinosa*, L.  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. peach X disease  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- P. spp.*  
 V. plum fruit crinkle \*  
 Chamberlain, E.E., J.D. Atkinson and J.A. Hunter, 1959
- P. ssiiori*, Schmidt  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. subcordata*, Benth.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. subhirtella*, Miq.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. sultana* \*  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. tangutica*, Koehne  
 V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- P. tenella*, Batsch (*Amygdalus nana*, L.)  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. tomentosa*, Thunb.  
 V. cherry green ring mottle \*  
 Fink, Harry C., 1955  
 V. peach mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Fink, Harry C., 1950, 1955  
 Gilmer, R.M., 1954, 1955, 1956  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Young, H.C., Jr., 1951  
 V. peach rosette mosaic  
 Fink, Harry C., 1955  
 V. peach western X disease  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach X disease  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Gilmer, R.M., 1951  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagnon and James R. Breece, 1957  
 V. prune dwarf  
 Fink, Harry C., 1955  
 V. (sour) cherry yellows  
 Fink, Harry C., 1955  
 Young, H.C., Jr., 1951  
 V. stone fruit necrotic ring spot \*  
 Fridlund, Paul R., 1954
- P. triloba*, Lindl.  
 V. peach ring spot  
 Gilmer, R.M., 1954, 1955
- P. umbellata*, Eill.  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 V. phony peach  
 Bruer, H.L. and C.E. Shepard, 1952  
 Bruer, H.L., C.E. Shepard and T.D. Persons, 1951
- P. umbellata* var. *injudunda*, Sarg.  
 V. phony peach  
 Bruer, H.L. and C.E. Shepard, 1952  
 Bruer, H.L., C.E. Shepard and T.D. Persons, 1951
- P. ursina*, Kotschy ex Boiss.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. ussuriensis*, Kovalev & Kostina  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. venulosa*, Sarg.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- P. virginiana*, L.  
 V. cherry chlorosis \*  
 Keitt, G.W. and C.N. Clayton, 1941  
 V. peach ring spot  
 Gilmer, R.M., 1955  
 Moore, J. Duain and G.W. Keitt, 1946  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 Richards, B.L. and L.C. Cochran, 1956  
 Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949  
 Richards, B.L., E.L. Reeves and Lee M. Hutchins, 1946  
 Zeller, S.M. and J.A. Milbrath, 1948  
 V. peach X disease  
 Fridlund, Paul R., 1954  
 Gilmer, R.M., 1951, 1954  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
 Hildebrand, E.M., 1953  
 Hildebrand, E.M. and D.H. Palmiter, 1940  
 Palmiter, D.H. and E.M. Hildebrand, 1943  
 Palmiter, D.H. and K.G. Parker, 1948

- Prunus virginiana*, L. (cont.)  
 V. peach X disease  
 Parker, K. G. and D.H. Palmiter, 1948  
 Stoddard, E.M., 1947  
 Thornberry, H.H., 1946, 1954  
 V. *prunus* A \*  
 Fulton, Robert W., 1957  
 V. *prunus* B \*  
 Fulton, Robert W., 1957  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957  
 V. (sour) cherry yellows  
 Keitt, G.W. and C.N. Clayton, 1943  
 Richards, B.L. and L.C. Cochran, 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. stone fruit necrotic ring spot \*  
 Fridlund, Paul R., 1954  
 P. *virginiana* var. *demissa*, (Torr. & Gray) Torr.  
 V. cherry necrotic rusty mottle  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach ring spot  
 Gilmer, R.M., 1954  
 V. peach western X disease  
 Kaloostian, George H., 1951  
 Richards, B.L. and L.C. Cochran, 1956  
 P. *yedoensis*, Matsum.  
 V. peach ring spot  
 Gilmer, R.M., 1955
- PSOPHOCARPUS Neck. 1790 (Leguminosae)  
 P. *tetragonolobus*, DC.  
 V. cowpea mosaic  
 Dale, W.T., 1949
- PSORALEA L. 1742 (Leguminosae)  
 P. *bituminosa*, L.  
 V. *psoralea bituminosa* mosaic \*  
 McKinney, H.H., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1948
- PTERYGOTA Schott & Endl. 1832 (Sterculiaceae)  
 P. *macrocarpa*, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- PYRETHRUM Hall. 1742 (Compositae)  
 P. spp.  
 V. aster yellows  
 Kunkel, L.O., 1926
- PYRUS ((Tourn.)) L. 1735 (Rosaceae)  
 P. *aucuparia*, Ehrh.  
 V. ash infectious variegation  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 P. *communis*, L.  
 V. pear mosaic  
 Posnette, A.F., 1957  
 V. pear red mottle \*  
 Posnette, A.F., 1957  
 V. pear stony pit  
 Kienholz, J.R., 1939  
 V. pear vein yellows \*  
 Posnette, A.F., 1957  
 V. quince sooty ring spot \*  
 Posnette, A.F., 1957  
 V. quince stunt \*  
 Posnette, A.F., 1957
- QUAMOCLIT Tourn. ex Moench 1794 (Convolvulaceae)  
 Q. *lobata*, House  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 Q. *pennata*, Bojer  
 V. tobacco mosaic  
 Grant, T.J., 1934
- RADICULA Dill. ex Moench 1794 (Cruciferae)  
 R. *nasturtium-aquaticum*, (L.) Brit. & Rend.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 R. *palustris*, (L.) Moench  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- RANUNCULUS ((Tourn.)) L. 1735 (Ranunculaceae)  
 R. *asiaticus*, L.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
 V. delphinium ring spot  
 Severin, Henry H.P. and R.C. Dickson, 1942  
 V. ranunculus mosaic  
 Raabe, Robert D. and A. Herbert Gold, 1957  
 R. spp.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- RAPHANUS ((Tourn.)) L. 1735 (Cruciferae)  
 R. *raphanistrum*, L.  
 V. cabbage black ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 R. *sativus*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1929, 1934  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 V. radish mosaic  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Takahashi, William N., 1952  
 Tompkins, C.M., 1939  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 R. *sativus* var. *hortensis*, Backer \*  
 V. turnip mosaic  
 Dale, W.T., 1948  
 R. *sativus* var. *longipinnatus*, Bailey \*  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938  
 V. radish mosaic  
 Tompkins, C.M., 1939

- Raphanus sativus*, L., var. *longipinnatus*, Bailey \*  
 V. rape savoy (cont.)  
 Ling, Lee and Juhwa Y. Yang, 1940  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939
- RESEDA Tourn. ex L. 1735 (Resedaceae)  
*R. odorata*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- RHAGODIA R. Br. 1810 (Chenopodiaceae)  
*R. nutans*, R. Br.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- RHEUM L. 1735 (Polygonaceae)  
*R. officinale*, Baill.  
 V. rhubarb mosaic \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- R. rhaponticum*, L.  
 V. beet curly top  
 Severin, Henry H.P., 1929  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. rhubarb ring spot \*  
 Vaughan, Edward K. and John W. Yale, Jr., 1953  
 Yale, John W., Jr. and Edward K. Vaughan, 1954  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. tomato aspermy  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- RHUS ((Tourn.)) L. 1737 (Anacardiaceae)  
*R. diversiloba*, Torr. & Gray  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- RHYNCHOSIA Lour. 1790 (Leguminosae)  
 (RYNCHOSIA) MacFad. 1837  
*R. hagenbeckii*, Harms  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*R. minima*, DC.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*R. resinosa*, Hochst. ex Baker  
 V. groundnut rosette  
 Evans, A.C., 1954
- RIBES L. 1737 (Saxifragaceae)  
*R. grossularia*, L.  
 V. gooseberry veinbanding  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*R. nigrum*, L.  
 V. black currant reversion  
 Lees, A.H., 1925  
 V. black currant vein pattern  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*R. rubrum*, L.  
 V. red currant mosaic  
 Hildebrand, E.M., 1939  
 V. red currant ring spot  
 Klessner, P.J., 1951  
*R. sativum*, (Reichb.) Syme  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1941, 1942
- RICINUS ((Tourn.)) L. 1735 (Euphorbiaceae)  
*R. communis*, L.  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Cook, A.A., 1956  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- ROBINIA L. 1737 (Leguminosae)  
*R. pseudoacacia*, L.  
 V. robinia brooming  
 Grant, Theodore J., 1939  
 Hartley, C. and L.W.R. Jackson, 1933  
 Jackson, L.W.R. and C. Hartley, 1933  
 V. tobacco streak  
 Fulton, Robert W., 1948
- RORIPPA Scop. 1760 (Cruciferae)  
 (RORIPA) Scop. 1760  
*R. curvisiliqua*, Bessey  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
*R. sylvestris*, (L.) Bess.  
 V. aster yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ROSA Tourn. ex L. 1735 (Rosaceae)  
*R. californica*, Cham. & Schlecht.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953
- R. canina*, L.  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940
- R. chinensis*, Jacq., var. *manetti*, Dipp.  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Nelson, R., 1930  
 Thomas, H. Earl and L.M. Massey, 1939  
 White, R.P., 1930, 1932



- Rosa chinensis*, Jacq., var. *manetti*, Dipp. (cont.)  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Thomas, H. Earl and L.M. Massey, 1939  
 (*R. chinensis*, Jacq. x *R. moschata*, Herrm.) x *R. foetida*, Herrm.  
 V. rose mosaic  
 Nelson, R., 1930  
*R. hugonis*, Hemsl.  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
*R. hybrid*  
 V. apple mosaic  
 Thomas, H. Earl and L.M. Massey, 1939  
 V. rose mosaic  
 Thomas, H. Earl and L.M. Massey, 1939  
 V. rose streak  
 Brierley, P., 1935  
 V. rose yellow mosaic  
 Thomas, H. Earl and L.M. Massey, 1939  
*R. multiflora*, Thunb.  
 V. peach ring spot  
 Gilmer, R.M., 1956  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Fulton, Robert W., 1952  
 Thomas, H. Earl and L.M. Massey, 1939  
 White, R.P., 1930, 1932  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Thomas, H. Earl and L.M. Massey, 1939  
*R. multiflora* x *R. chinensis*, Jacq.  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
*R. noisetiana*, Thory  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
*R. nutkana*, Presl  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
*R. odorata*, Sweet  
 V. peach yellow bud mosaic  
 Thomas, H. Earl and L.M. Massey, 1939  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Nelson, R., 1930  
 Thomas, H. Earl and L.M. Massey, 1939  
 White, R.P., 1930, 1932, 1934  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Thomas, H. Earl and L.M. Massey, 1939  
*R. odorata* var. *gigantea*, Rehd. & Wilson  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
*R. pisocarpa*, Gray  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
*R. rubrifolia*, Vill.  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
*R. setigera*, Michx.  
 V. rose mosaic  
 Fulton, Robert W., 1952  
*R. spinosissima*, L.  
 V. rose rosette  
 Thomas, H. Earl and C. Emlen Scott, 1953  
*R. spp.*  
 V. peach necrotic leaf spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. peach ring spot  
 Cochran, L.C., 1950  
 V. peach yellow bud mosaic  
 Thomas, H. Earl and L.M. Massey, 1939  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 V. rose cowl forming  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Thomas, H. Earl and L.M. Massey, 1939  
 White, R.P., 1932  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 Thomas, H. Earl and L.M. Massey, 1939  
*R. wichuraiana*, Crep.  
 V. rose mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. rose yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1940  
 ROSMARINUS ((Tourn.)) L. 1735 (Labiatae)  
*R. officinalis*, L.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 ROTTBOELLIA L. f. 1779 (Gramineae)  
*R. exaltata*, L. f.  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950  
 RUBUS ((Tourn.)) L. 1735 (Rosaceae)  
*R. albescens*, Roxb.  
 V. black raspberry necrosis  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rubus yellow net  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*R. allegheniensis*, Porter  
 V. blackberry dwarfing  
 Wilhelm, Stephen, H.E. Thomas and D.D. Jensen, 1948  
 V. blackberry variegation  
 Horn, Norman L., 1948  
 V. raspberry alpha leaf curl  
 Bennett, C.W., 1927  
*R. fruticosus*, L.  
 V. blackberry dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rubus stunt  
 Prentice, I.W., 1951  
*R. henryi*, Hemsl. & Kuntze  
 V. black raspberry necrosis  
 Cadman, C.H., 1951  
*R. idaeus*, L.  
 V. black raspberry necrosis  
 Cadman, C.H., 1951, 1954  
 V. blackberry variegation  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cucumber mosaic  
 Harrison, B.D., 1958  
 V. peach yellow bud mosaic  
 Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955  
 V. raspberry curly dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. raspberry leaf spot  
 Cadman, C.H., 1952

- Rubus idaeus*, L.
- V. raspberry (mild) yellows  
Cadman, C.H., 1952
  - V. raspberry (moderate) vein chlorosis  
Cadman, C.H., 1952
  - V. raspberry mosaic 2 \*  
Cadman, C.H., 1952  
Harris, R.V., 1940  
Prentice, I.W. and R.V. Harris, 1950
  - V. raspberry necrotic fern leaf mosaic  
Chamberlain, G.C., 1941
  - V. raspberry Scottish leaf curl  
Cadman, C.H., 1956  
Cadman, C.H. and R.V. Harris, 1952  
Harrison, B.D., 1958
  - V. raspberry veinbanding  
Cadman, C.H., 1952  
Harris, R.V., 1940  
Prentice, I.W. and R.V. Harris, 1950
  - V. raspberry yellow blotch curl  
Cadman, C.H. and R.V. Harris, 1952  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. raspberry yellow dwarf \*  
Harrison, B.D., 1958
  - V. red raspberry mottle mosaic \*  
Vaughan, Edward K. and Harold W. Wiedman, 1955
  - V. rubus stunt  
Prentice, I.W., 1951
  - V. tomato black ring  
Harrison, B.D., 1958
- R. idaeus* var. *strigosus*, (Michx.) Maxim.
- V. black raspberry necrosis  
Bennett, C.W., 1927, 1932  
Schwartz, C.D. and Glenn A. Huber, 1939  
Wilcox, R.B. and F.F. Smith, 1924
  - V. raspberry alpha leaf curl  
Bennett, C.W., 1927, 1930  
Rankin, W.H., J.F. Hockey and J.B. McCurry, 1922
  - V. raspberry beta leaf curl  
Bennett, C.W., 1930
  - V. raspberry veinbanding  
Cadman, C.H., 1952
  - V. raspberry yellow blotch curl  
Zeller, S.M. and A.J. Braun, 1943
  - V. raspberry yellow mosaic  
Bennett, C.W., 1932
  - V. red raspberry mottle mosaic \*  
Vaughan, Edward K. and Harold W. Wiedman, 1955
- R. laciniatus*, Willd.
- V. black raspberry necrosis  
Bennett, C.W., 1932
  - V. rubus stunt  
Prentice, I.W., 1951
- R. loganobaccus*, Bailey
- V. blackberry dwarf  
Zeller, S.M., 1925
  - V. rubus stunt  
Prentice, I.W., 1951
- R. macropetalus*, Dougl.
- V. black raspberry necrosis  
Bennett, C.W., 1932
  - V. raspberry alpha leaf curl  
Bennett, C.W., 1927
- R. neglectus*, Peck
- V. black raspberry necrosis  
Bennett, C.W., 1927, 1932  
Cooley, L.M., 1936
  - V. raspberry beta leaf curl  
Bennett, C.W., 1927
- R. occidentalis*, L.
- V. black raspberry necrosis  
Bennett, C.W., 1927, 1932  
Cadman, C.H., 1951, 1954  
Cooley, L.M., 1936  
Rankin, W.H., 1930, 1931  
Wilcox, R.B. and F.F. Smith, 1924
  - V. blackberry variegation  
Horn, Norman L., 1948
  - V. raspberry alpha leaf curl  
Rankin, W.H. and J.F. Hockey, 1922
- R. occidentalis*, L.
- V. raspberry beta leaf curl  
Bennett, C.W., 1927, 1930  
Rankin, W. Howard, 1931
  - V. raspberry necrotic fern leaf mosaic  
Chamberlain, G.C., 1941
  - V. raspberry streak  
Bennett, C.W., 1927  
Horn, Norman L., 1948  
Horn, N.L. and M.W. Woods, 1949  
Rankin, W. Howard, 1931
  - V. raspberry veinbanding  
Cadman, C.H., 1952
  - V. raspberry yellow mosaic  
Bennett, C.W., 1927, 1932  
Rankin, W. Howard, 1931
  - V. red raspberry mottle mosaic \*  
Vaughan, Edward K. and Harold W. Wiedman, 1955
  - V. rubus yellow net  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- R. occidentalis* x *R. idaeus*, L.
- V. raspberry veinbanding  
Cadman, C.H., 1952
- R. parviflorus*, Nutt.
- V. rose mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- R. phoenicolasius*, Maxim.
- V. raspberry alpha leaf curl  
Rankin, W.H. and J.F. Hockey, 1922
- R. procerus*, P.J. Muell.
- V. black raspberry necrosis  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. peach yellow bud mosaic  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
  - V. rubus yellow net  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- R. saxatilis*, L.
- V. black raspberry necrosis  
Cadman, C.H., 1951
  - V. raspberry veinbanding  
Cadman, C.H., 1952
- R. spp.*
- V. blackberry dwarf  
Zeller, S.M., 1927
  - V. peach yellow bud mosaic  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- R. strigosus*, Michx.
- V. black raspberry necrosis  
Huber, Glenn A. and C.D. Schwartz, 1938
  - V. raspberry alpha leaf curl  
Bennett, C.W., 1927  
Rankin, W.H. and J.F. Hockey, 1922
  - V. rubus yellow net  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- R. ursinus*, Cham. & Schlecht.
- V. blackberry dwarfing  
Wilhelm, Stephen, H.E. Thomas and D.D. Jensen, 1948
  - V. peach yellow bud mosaic  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- R. ursinus* var. *vitifolius*, (Cham. & Schlecht.) Focke
- V. lucerne dwarf  
Freitag, J.H., 1951
- RUDBECKIA L. 1735 (Compositae)
- R. bicolor*, Nutt.
- V. clover big vein  
Black, L.M., 1945
- R. hirta*, L.
- V. aster yellows  
Severin, Henry H.P. and Julius H. Freitag, 1945
  - V. clover big vein  
Black, L.M., 1945
  - V. tobacco mosaic  
Holmes, Francis O., 1946
- R. spp.*
- V. cucumber mosaic  
Faan, Hwei Chung and James Johnson, 1951

- RUELLIA Plum. ex L. 1735 (Acanthaceae)  
 R. tuberosa, L.  
   V. cucumber mosaic  
     Adsuar, Jose and A. Cruz Miret, 1950
- RUMEX L. 1735 (Polygonaceae)  
 R. acetosa, L.  
   V. clover big vein  
     Black, L.M., 1945  
 R. acetosella, L.  
   V. aster yellows  
     Frazier, Norman W. and Henry H.P. Severin,  
     1945  
   V. clover big vein  
     Black, L.M., 1945  
   V. tobacco mosaic  
     Holmes, Francis O., 1938  
 R. britannica, L.  
   V. lettuce mosaic  
     Newhall, A. G., 1923  
   V. tobacco streak  
     Fulton, Robert W., 1948  
 R. crispus, L.  
   V. beet curly top  
     Carsner, E., 1925  
     Severin, Henry H.P., 1929, 1934  
   V. clover big vein  
     Black, L.M., 1945  
   V. cucumber mosaic  
     Price, W.C., 1940  
   V. lucerne dwarf  
     Freitag, J.H., 1951  
   V. lucerne mosaic  
     Price, W.C., 1940  
   V. rhubarb ring spot \*  
     Vaughan, Edward K. and John W. Yale, Jr., 1953  
     Yale, John W., Jr. and Edward K. Vaughan, 1954  
   V. tobacco broad ring spot  
     Johnson, James and Robert W. Fulton, 1942  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946  
   V. tobacco necrosis  
     Price, W.C., 1940  
   V. tobacco ring spot  
     Price, W.C., 1940  
   V. tobacco ring spot no. 2  
     Price, W.C., 1940  
   V. tobacco streak  
     Fulton, Robert W., 1948  
 R. lanceolatus, Thunb.  
   V. dock mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 R. obtusifolius, L.  
   V. clover big vein  
     Black, L.M., 1945  
   V. dock mosaic  
     Fernow, Karl Hermann, 1925  
   V. rhubarb mosaic \*  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
 R. sanguineus, L.  
   V. dock mosaic  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 R. scutatus, L.  
   V. beet curly top  
     Severin, Henry H.P., 1929
- SACCHARUM L. 1737 (Gramineae)  
 S. narenga, Wall.  
   V. sugarcane mosaic  
     Brandes, E.W. and Peter J. Klaphaak, 1923  
 S. officinarum, L.  
   V. grass natal mosaic \*  
     Storey, H.H., 1929  
   V. maize mosaic  
     Brandes, E.W., 1920  
   V. maize streak  
     (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
   V. rice and corn leaf-gall \*  
     Agati, Julian A. and Carlos A. Calica, 1950  
   V. sugarcane chlorotic streak  
     Abbott, E.V., 1945, 1947  
     Abbott, E.V. and J.W. Ingram, 1942  
   V. officinarum, L. (cont.)  
     V. sugarcane chlorotic streak  
       Adsuar, Jose, 1946  
     V. sugarcane dwarf  
       (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
     V. sugarcane fiji disease  
       Ocfemia, Gerardo Offimaria, 1934  
       Ocfemia, Gerardo Offimaria and Martin S. Celino,  
       1939  
       Ocfemia, G.O., Evaristo A. Hurtado and  
       Crispiniano C. Hernandez, 1933  
     V. sugarcane green mosaic \*  
       Forbes, I.L. and P.J. Mills, 1942  
     V. sugarcane mosaic  
       Abbott, E.V., 1929, 1931, 1949, 1952  
       Adsuar, Jose, 1950, 1954  
       Brandes, E.W., 1920  
       Brandes, E.W. and Peter J. Klaphaak, 1923  
       Bruehl, George W., 1953, 1954  
       Chardon, C.E. and R.A. Veve, 1923  
       Chona, B.L. and S.A. Rafay, 1950  
       Costa, A.S. and M.P. Pentead, 1951  
       Edgerton, C.W., I.L. Forbes and P.J. Mills,  
       1937  
       Edgerton, C.W. and W.G. Taggart, 1924  
       Forbes, I.L. and Jean Dufrenoy, 1943  
       Forbes, I.L. and P.J. Mills, 1943, 1945  
       Gonzales-Rios, P. and J. Adsuar, 1953  
       Ingram, J.W., 1936  
       Ingram, J.W. and E.M. Summers, 1938  
       Kunkel, L.O., 1927  
       Luthra, Jai Chand and Abdus Sattar, 1935  
       Matz, Julius, 1933, 1934  
       McKinney, H.H., 1929  
       Ocfemia, G.O., 1932  
       Ocfemia, G.O., Evaristo A. Hurtado and  
       Crispiniano C. Hernandez, 1933  
       Sein, Francisco, Jr., 1930  
       Storey, H.H., 1929  
       Summers, E.M., 1934  
       Tate, H.D. and S.R. Vandenberg, 1939  
       Tims, E.C., 1935  
       Tims, E.C. and C.W. Edgerton, 1931, 1932  
       Tims, E.C., P.J. Mills and C.W. Edgerton, 1935  
     V. sugarcane ratoon stunting  
       Bruehl, G.W., 1955  
       Steib, R.J., I.L. Forbes and S.J.P. Chilton, 1957  
     V. sugarcane sereh disease  
       (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
     V. sugarcane streak  
       (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
     V. sugarcane yellow mosaic \*  
       Forbes, I.L. and P.J. Mills, 1942  
     V. wheat streak mosaic  
       McKinney, H.H., 1949  
 S. spp.  
   V. maize streak  
     Storey, H.H. and A.P.D. McClean, 1930  
   V. sugarcane streak  
     Storey, H.H. and A.P.D. McClean, 1930
- SAINTPAULIA H. Wendl. 1893 (Gesneriaceae)  
 S. ionantha, Wendl.  
   V. anemone mosaic \*  
     Hollings, M., 1957
- SALIX ((Tourn.)) L. 1735 (Salicaceae)  
 S. spp.  
   V. lucerne dwarf  
     Freitag, J.H., 1951
- SALPIGLOSSIS Ruiz & Pav. 1794 (Solanaceae)  
 S. sinuata, Ruiz & Pav.  
   V. anemone mosaic \*  
     Hollings, M., 1957  
   V. aster yellows  
     Kunkel, L.O., 1926  
     Severin, Henry H.P. and Julius H. Freitag, 1945  
   V. beet curly top  
     Freitag, Julius H. and Henry H.P. Severin, 1936  
   V. cabbage black ring spot  
     Hollings, M., 1957  
   V. cucumber mosaic  
     Price, W.C., 1940

- Salpiglossis sinuata*, Ruiz & Pav.  
*V. lucerne mosaic*  
 Price, W. C., 1940  
*V. potato X*  
 Smith, J. Henderson, 1928  
*V. prunus B \**  
 Fulton, Robert W., 1957  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W. C., 1940  
 Price, W. C., Frank P. McWhorter and Betty H. Steranka, 1950  
*V. tobacco ring spot*  
 Price, W. C., 1940  
*V. tomato aspermy*  
 Hollings, M., 1955  
*V. tomato spotted wilt*  
 Gardner, M. W. and O. C. Whipple, 1934  
 Tompkins, C. M. and M. W. Gardner, 1934  
*V. turnip mosaic*  
 Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945  
*S. spp.*  
*V. vaccinium false blossom*  
 Kunkel, L. O., 1945  
*S. variabilis*, Hort. ex Vilm.  
*V. potato X*  
 Dennis, R. W. G., 1939  
*V. potato Y*  
 Smith, Kenneth M. and R. W. G. Dennis, 1940  
  
*SALSOLA* L. 1735 (Chenopodiaceae)  
*S. kali*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*S. kali var. tenuifolia*, Tausch  
*V. beet curly top*  
 Carsner, E., 1919  
 Severin, Henry H. P., 1934  
 Severin, Henry H. P. and Charles F. Henderson, 1928  
 Severin, Henry H. P. and Byron R. Houston, 1945  
*V. beet mosaic*  
 Severin, Henry H. P. and Roger M. Drake, 1947  
  
*SALVIA* ((Tourn.)) L. 1735 (Labiatae)  
*S. azurea*, Lam.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*S. azurea var. pitcheri*, Sheldon  
*V. aster yellows*  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*S. coccinea*, Juss.  
*V. salvia chlorosis \**  
 Verma, G. S. and A. K. Bose, 1955  
*S. farinacea*, Benth.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*S. patens*, Cav.  
*V. cucumber mosaic*  
 Faan, Hwei Chung and James Johnson, 1951  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*S. splendens*, Ker-Gawl.  
*V. beet curly top*  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
*V. cucumber mosaic*  
 Price, W. C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco ring spot*  
 Fulton, Robert W., 1941  
 Wingard, S. A., 1928  
*V. tomato spotted wilt*  
 Gardner, M. W., C. M. Tompkins and O. C. Whipple, 1935  
  
*SAMBUCUS* Tourn. ex L. 1735 (Caprifoliaceae)  
*S. caerulea*, Raf.  
*V. lucerne dwarf*  
 Freitag, J. H., 1951  
  
*S. canadensis*, L.  
*V. tobacco ring spot*  
 Wilkinson, R. E., 1952  
  
*SAMOLUS* ((Tourn.)) L. 1735 (Primulaceae)  
*S. floribundus*, H. B. & K.  
*V. beet curly top*  
 Costa, A. S., 1952  
*V. dodder latent mosaic*  
 Bennett, C. W., 1944  
*S. parviflorus*, Raf.  
*V. beet curly top*  
 Bennett, C. W., 1952, 1955  
 Giddings, N. J., 1944  
*V. beet mosaic*  
 Bennett, C. W., 1949  
  
*SANGUISORBA* Rupp. ex L. 1735 (Rosaceae)  
*S. minor*, Scop.  
*V. datura rugose leaf curl*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
  
*SANTALUM* 1742 (Santalaceae)  
*S. album*, L.  
*V. sandal leaf curl mosaic*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*V. sandal spike*  
 Iyengar, A. V. Varadaraja, 1938  
 Narasimhan, M. J., 1928  
  
*SANVITALIA* Gault. in Lam. 1792 (Compositae)  
*S. procumbens*, Lam.  
*V. chrysanthemum stunt*  
 Brierley, Philip, 1953  
*V. dahlia mosaic*  
 Brierley, Philip and Floyd F. Smith, 1950  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
  
*SAPONARIA* L. 1735 (Caryophyllaceae)  
*S. ocyroides*, L.  
*V. carnation ring spot*  
 Brierley, Philip and Floyd F. Smith, 1957  
  
*SARACHA* Ruiz & Pav. 1794 (Solanaceae)  
*S. umbellata*, Don. \*  
*V. potato M \**  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
*V. potato paracrinkle*  
 Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
  
*SATUREIA* L. 1737 (Labiatae)  
*S. hortensis*, L.  
*V. aster yellows*  
 Kunkel, L. O., 1926  
  
*SCABIOSA* ((Tourn.)) L. 1735 (Dipsaceae)  
*S. atropurpurea*, L.  
*V. aster yellows*  
 Kunkel, L. O., 1926  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*V. beet curly top*  
 Severin, Henry H. P. and Julius H. Freitag, 1934  
*V. cabbage black ring spot*  
 Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938  
*V. clover big vein*  
 Black, L. M., 1945  
*V. cucumber mosaic*  
 Wellman, F. L., 1935  
*V. teasel mosaic*  
 Stoner, Warren N., 1951  
*V. tobacco ring spot*  
 Wingard, S. A., 1928  
*V. turnip mosaic*  
 Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. vaccinium false blossom*  
 Kunkel, L. O., 1945

- Scabiosa japonica, Miq.  
 V. cucumber mosaic  
 Price, W.C., 1940
- S. spp.  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- SCAEOVOLA L. 1771 (Goodeniaceae)  
 S. frutescens, K. Krause  
 V. scaevola frutescens ring spot \*  
 Jensen, D.D., 1949
- SCHIZANTHUS Ruiz & Pav. 1794 (Solanaceae)  
 S. pinnatus, Ruiz & Pav.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 Tompkins, C.M. and M.W. Gardner, 1934
- S. retusus, Hook  
 V. potato X  
 Larson, R.H., 1947  
 V. potato Y  
 Smith, Kenneth M. and R.W.G. Dennis, 1940
- S. spp.  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- S. wisetonensis, Hort.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Price, W.C., 1940  
 V. tobacco streak  
 Fulton, Robert W., 1948
- SCOPARIA L. 1748 (Scrophulariaceae)  
 S. dulcis, L.  
 V. tobacco leaf curl  
 Pruthi, Hem Singh and C.K. Samuel, 1941
- SCORZONERA ((Tourn.)) L. 1735 (Compositae)  
 S. hispanica, L.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945
- SCROPHULARIA Tourn. ex L. 1735 (Scrophulariaceae)  
 S. californica, Cham. & Schlecht.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945
- S. marilandica, L.  
 V. tobacco mosaic  
 Grant, T.J., 1934
- SECALE ((Tourn.)) L. 1735 (Gramineae)  
 S. cereale, L.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Allen, Thomas C., Jr., 1957  
 Allen, Thomas C., Jr. and Byron R. Houston, 1956  
 Takeshita, R.M., 1956  
 V. brome mosaic  
 McKinney, H.H., 1944  
 V. cucumber mosaic  
 Wellman, F.L., 1934, 1935  
 V. maize streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. cereale, L. (cont.)  
 V. oat pseudo-rosette  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. rice dwarf  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. soil-borne wheat mosaic  
 McKinney, H.H., 1925, 1930  
 Sill, W.J., Jr., 1955  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, John T., 1954, 1955  
 V. wheat striate mosaic  
 Slykhuis, John T. and Marion A. Watson, 1958
- S. cereale subsp. ancestrale, Zhuk. \*  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951
- S. montanum, Guss.  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951
- S. spp.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- SEDUM Tourn. ex L. 1735 (Crassulaceae)  
 S. acre, L.  
 V. tobacco ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940
- SENECIO ((Tourn.)) L. 1735 (Compositae)  
 S. cruentus, (Mass.) DC.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. chrysanthemum stunt  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. glastifolius, Hook. f.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- S. hybridus, Hort. ex Regel  
 V. aster yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. mikanioides, Otto  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- S. vulgaris, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Severin, Henry H.P., 1934  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahan, 1961  
 V. lettuce mosaic  
 Ainsworth, G.C. and L. Ogilvie, 1939
- SESAMUM L. 1737 (Pedaliaceae)  
 S. indicum, L.  
 V. sesamum phyllody \*  
 Pal, B.P. and Pushkar Nath, 1935

- Sesamum occidentale*, Heer & Regel \*
- V. sesamum phyllody* \*
- Vasudeva, R.S. and H.S. Sahambi, 1955
- S. orientale*, L.
- V. sesamum phyllody* \*
- Vasudeva, R.S. and H.S. Sahambi, 1955
- V. tobacco ring spot*
- Cooper, W.D., 1949
- SESBANIA Scop. 1777 (Leguminosae)**
- S. hispinosa*, Steud.
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- S. cannabina*, Poir.
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- S. cinerascens*, Welw. ex Baker
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- S. exaltata*, (Raf.) Cory
- V. prunus A* \*
- Ehlers, Clifford G. and J. Duain Moore, 1957
- Fulton, Robert W., 1957
- V. prunus B* \*
- Ehlers, Clifford G. and J. Duain Moore, 1957
- Fulton, Robert W., 1957
- V. prunus E* \*
- Ehlers, Clifford G. and J. Duain Moore, 1957
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- V. (sour) cherry yellows*
- Fulton, Robert W., 1956
- S. macrocarpa*, Muhl. ex Raf.
- V. bean yellow mosaic*
- Johnson, James, 1942
- S. paulensis*, Barb. & Rodr.
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- S. sesban*, Merr.
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- S. speciosa*, Taub. ex Engl.
- V. cowpea mosaic*
- Dale, W.T., 1949
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- S. spp.*
- V. lucerne mosaic*
- Thomas, H. Rex, 1951
- SETAROA Beauv. 1807 (Gramineae)**
- (*CHAETOCHELOA*) Scribn. 1897
- S. italica*, (L.) Beauv.
- V. barley stripe mosaic*
- Slykhuis, J.T., 1952
- V. panicum mosaic* \*
- Sill, W.H., Jr., 1957
- Sill, W.H., Jr. and R.C. Pickett, 1957
- V. wheat spot mosaic* \*
- Slykhuis, John T., 1956
- V. wheat streak mosaic*
- Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Slykhuis, John T., 1955
- S. lutescens*, (Weigel) F.T. Hubb
- V. barley yellow dwarf*
- Bruehl, G.W. and H.V. Toko, 1957
- V. lucerne dwarf*
- Freitag, J.H., 1951
- V. sugarcane mosaic*
- Brandes, E.W., 1920
- Brandes, E.W. and Peter J. Klapaak, 1923
- S. sulcata*, Raddi
- V. grass natal mosaic* \*
- Storey, H.H., 1929
- V. sugarcane mosaic*
- (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. verticillata*, (L.) Beauv.
- V. barley stripe mosaic*
- Slykhuis, J.T., 1952
- V. wheat spot mosaic* \*
- Slykhuis, John T., 1956
- V. wheat streak mosaic*
- Slykhuis, J.T., 1952, 1955
- S. virdis*, (L.) Beauv.
- V. barley stripe mosaic*
- Slykhuis, J.T., 1952
- V. corn new mosaic* \*
- Finley, A.M., 1954
- V. oat pseudo-roseette*
- (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. soybean new disease* \*
- Dunleavy, John, 1957
- V. wheat spot mosaic* \*
- Slykhuis, John T., 1956
- V. wheat streak mosaic*
- Finley, A.M., 1957
- McKinney, H.H. and Hurley Fellows, 1951
- Slykhuis, John T., 1951, 1952, 1955
- (*C. magna*), (Griseb.) Scribn.
- V. sugarcane mosaic*
- Brandes, E.W. and Peter J. Klapaak, 1923
- SICANA Naud. 1862 (Cucurbitaceae)**
- S. odorifera*, Naud.
- V. cucumber mosaic*
- Adsuar, Jose and A. Cruz Miret, 1950
- V. prunus A* \*
- Fulton, Robert W., 1957
- V. prunus B* \*
- Fulton, Robert W., 1957
- V. prunus E* \*
- Fulton, Robert W., 1957
- V. prunus G* \*
- Fulton, Robert W., 1957
- SICYOS L. 1735 (Cucurbitaceae)**
- S. angulatus*, L.
- V. cucurbit mosaic* \*
- Doolittle, S.P. and M.N. Walker, 1925
- V. tobacco streak*
- Fulton, Robert W., 1948
- V. wild cucumber mosaic* \*
- Freitag, J.H., 1952
- SIDA L. 1735 (Malvaceae)**
- S. carpinifolia*, L. f.
- V. abutilon infectious variegation*
- Bird, Julio, 1958
- S. rhombifolia*, L.
- V. abutilon infectious variegation*
- Bird, Julio, 1958
- Costa, A.S. and C.W. Bennett, 1950
- Kunkel, L.O., 1930
- Silberschmidt, K. and L.R. Tommasi, 1956

- Sida rhombifolia*, L. (cont.)  
 V. tobacco leaf curl  
 Pruthi, Hem Singh and C.K. Samuel, 1941
- S. spp.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzparrick, et al., 1958
- SILENE L. 1735 (Caryophyllaceae)
- S. anglica, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- S. armeria, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- S. compacta, Fisch.  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- S. gallica, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- S. latifolia, Brit. & Rendle  
 V. clover big vein  
 Black, L.M., 1945
- S. noctiflora, L.  
 V. tobacco streak  
 Fulton, Robert W., 1948
- S. pendula, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- SILYBUM Baill. ex Adans. 1763 (Compositae)
- S. marianum, Gaertn.  
 V. cynarus curly dwarf  
 Leach, L.D. and J.W. Oswald, 1950  
 V. tobacco yellow dwarf  
 Helson, G.A.H., 1950
- SINNINGIA Nees 1825 (Gesneriaceae)
- S. speciosa, Benth. & Hook.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
 V. tomato spotted wilt  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- SISYMBRIUM ((Tourn.)) L. 1735 (Cruciferae)
- S. altissimum, L.  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. officinale, (L.) Scop. (cont.)  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cabbage black ring spot  
 Hollings, M., 1957
- S. officinale, (L.) Scop. (cont.)  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Pound, Glenn S., 1948  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- S. thalianum, J. Gay  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- SITANION Raf. 1819 (Gramineae)
- S. hystrix, (Nutt.) J. G. Sm.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953
- S. jubatum, J. G. Sm.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- SOLANUM ((Tourn.)) L. 1735 (Solanaceae)
- S. acaule, Bitt.  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. acaule var. subexinterruptum, Bitt.  
 V. potato yellow dwarf  
 Black, L.M., 1937
- S. aculeastrum, Dun.  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. aculeatissimum, Jacq.  
 V. potato X  
 Fernow, Karl Hermann, 1925  
 Larson, R.H., 1947  
 V. tobacco mosaic  
 Fernow, Karl Hermann, 1925  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- S. ajuscoense, Buk.  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 V. potato yellow dwarf  
 Black, L.M., 1937
- S. andigenum, Juz. & Buk. \* or S. tuberosum, L.  
 V. beet curly top  
 Watson, R.D. and T.E. Randall, 1951
- S. antipoviczii, Buk.  
 V. beet curly top  
 Watson, R.D. and T.E. Randall, 1951  
 V. potato yellow dwarf  
 Black, L.M., 1937
- S. antipoviczii or S. neo-antipoviczii, Buk.  
 V. beet curly top  
 Watson, R.D. and T.E. Randall, 1951
- S. atropurpureum, Schrank \*  
 V. cucumber mosaic  
 Hoggan, Isme A., 1927  
 V. potato X  
 Fernow, Karl Hermann, 1925  
 Hoggan, Isme A., 1927  
 V. potato Y  
 Hoggan, Isme A., 1927  
 V. tobacco mosaic  
 Fernow, Karl Hermann, 1925  
 Hoggan, Isme A., 1927

- Solanum aviculare*, Forst.  
V. cucumber mosaic  
Wellman, F.L., 1935
- S. *cabliense* var. *argenteum* \*  
V. tobacco mosaic  
Hoggan, Isme A., 1927
- S. *capsicastrum*, Link  
V. tobacco etch  
Holmes, Francis O., 1946
- V. tobacco mosaic  
Holmes, Francis O., 1946
- V. tomato spotted wilt  
Milbrath, J.A., 1939  
Smith, Kenneth M., 1931, 1932
- S. *cardiophyllum*, Lindl.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *cardiophyllum* subsp. *ehrenbergii*, Bitt.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *cardiophyllum* f. *coyoacanum*, Buk. \*  
V. potato yellow dwarf  
Black, L.M., 1937
- S. *caribaeum*, Dun.  
V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950
- V. tobacco leaf curl  
Bird, Julio, 1957
- S. *carolinense*, L.  
V. cucumber mosaic  
Johnson, E.M., 1930
- V. potato X  
Fernow, Karl Hermann, 1925  
Johnson, E.M., 1930
- V. tobacco etch  
Greenleaf, W.H., 1953  
Johnson, E.M., 1930
- V. tobacco mosaic  
Boyle, John S. and David C. Wharton, 1956, 1957  
Fernow, Karl Hermann, 1925  
Gardner, Max W. and James B. Kendrick, 1922  
Johnson, E.M., 1930
- V. tobacco ring spot  
Wingard, S.A., 1928
- V. tobacco ring spot no. 2  
Wilkinson, R.E., 1952
- V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
- S. *chacoense*, Bitt.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *ciliatum*, Lam.  
V. tobacco mosaic  
Ainsworth, G.C., 1933
- S. *demissum*, Lindl.  
V. beet curly top  
Watson, R.D. and T.E. Randall, 1951
- V. potato A  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- V. potato stunt  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- (S. *demissum* x S. *gibberulosum*, Juz. & Buk.) x (S. *stoloniferum*, Schlecht. & Bouche)  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (S. *demissum* x S. *saltense*, Hawkes) x (S. *stoloniferum*, Schlecht. & Bouche)  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (S. *demissum* x S. *schickii*, Juz. & Buk.) x (S. *stoloniferum*, Schlecht. & Bouche)  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (S. *demissum* x S. *simplicifolium*, Bitt) x (S. *stoloniferum*, Schlecht. & Bouche)  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *demissum* x S. *tuberosum*, L., var. *aquila* \*  
V. potato A  
Raymer, W.B. and J.A. Milbrath, 1957
- V. potato X  
Raymer, W.B. and J.A. Milbrath, 1957
- S. *douglasii*, Dun.  
V. beet curly top  
Severin, Henry H.P., 1934
- S. *dulcamara*, L.  
V. potato leaf roll  
Dykstra, T.P., 1930, 1933
- V. potato X  
Smith, J. Henderson, 1928  
Thompson, A.D., 1956
- V. potato Y  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. tobacco mosaic  
Crawford, R.F., 1921  
Gardner, Max W. and James B. Kendrick, 1922  
Holmes, Francis O., 1946  
Jarrett, Phyllis H., 1930
- V. tobacco streak  
Fulton, Robert W., 1948
- V. tomato spotted wilt  
Smith, Kenneth M., 1932
- S. *elaeagnifolium*, Cav.  
V. chilli veinbanding  
Simons, John N., 1956
- S. *gibberulosum*, Juz. & Buk.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *giganteum*, Jacq.  
V. tomato bunchy top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. *gigantophyllum*, Bitt.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *gracile*, Link \*  
V. cucumber mosaic  
Anderson, C.W., 1955  
Simons, John N., 1957
- V. chilli veinbanding  
Simons, John N., 1956, 1957
- V. potato Y  
Simons, J.N., Robert A. Conover and James M. Walter, 1956
- S. *incanum*, L.  
V. tomato bunchy top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. *indicum*, L.  
V. tomato bunchy top  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. *integrifolium*, Poir.  
V. cucumber mosaic  
Pound, Glenn S. and J.C. Walker, 1948
- V. tobacco etch  
Greenleaf, W.H., 1953  
Holmes, Francis O., 1946
- V. tobacco mosaic  
Gardner, Max W. and James B. Kendrick, 1922  
Holmes, Francis O., 1946
- V. tobacco streak  
Fulton, Robert W., 1948
- V. turnip mosaic  
Pound, Glenn S., 1948  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. *kesselbrenneri*, Juz. & Buk.  
V. potato Y  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. *laciniatum*, Ait.  
V. cucumber mosaic  
Hoggan, Isme A., 1927
- V. potato X  
Hoggan, Isme A., 1927  
Thompson, A.D., 1956
- V. potato Y  
Hoggan, Isme A., 1927
- V. tobacco mosaic  
Hoggan, Isme A., 1927



- Solanum laciniatum*, Ait. (cont.)  
 V. tobacco yellow dwarf  
 Hill, A.V., 1950  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1931, 1932
- S. marginatum*, L. f.  
 V. tobacco mosaic  
 Hoggan, Isme A., 1927  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- S. melongena*, L.  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Fulton, Robert W., 1941  
 Harter, L.L., 1938  
 Hoggan, Isme A., 1935  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Simons, John N., 1957  
 Wellman, F.L., 1935  
 V. eggplant mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Porter, D.R., 1935  
 V. (*physalis*) mosaic \*  
 Melhus, I.E., 1922  
 V. potato calico  
 Berkeley, G.H., 1947  
 V. potato M \*  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato X  
 Fulton, Robert W., 1941  
 Johnson, James, 1925  
 V. potato Y  
 Roque, Arturo and Jose Adsuar, 1941  
 Sakimura, K., 1953  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 V. sweet potato mosaic  
 Elmer, O.H., 1957  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Ainsworth, G.C., 1933  
 Das, C.R. and S.P. Raychaudhuri, 1953  
 Holmes, F.O., 1934, 1946  
 Jensen, J.H., 1933  
 Johnson, J., 1926  
 V. tobacco ring spot  
 Fulton, Robert W., 1941  
 Ivanoff, S.S., 1942  
 Jones, S.E., 1942  
 Valleau, W.D., 1951  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tomato big bud  
 Hill, A.V. and M. Mandryk, 1954  
 V. tomato ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Samsom, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Ferguson, I.A.C., 1951  
 Gardner, M.W. and O.C. Whipple, 1934  
 Sakimura, K., 1940  
 Smith, Kenneth M., 1932  
 Tompkins, C.M. and M.W. Gardner, 1934  
 V. tomato V-52-1  
 Miller, Patrick M., 1953
- S. melongena* var. *esculentum*, Nees  
 V. cucumber mosaic  
 Johnson, E.M., 1930  
 V. potato X  
 Johnson, E.M., 1930
- S. melongena* var. *esculentum*, Nees (cont.)  
 V. potato Y  
 Johnson, E.M., 1930  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
*S. melongena* var. *Hangchow Long* x var. *Black Beauty*  
 V. tobacco mosaic  
 Holmes, F.O., 1934  
*S. melongena* var. *Peking Green* x var. *Black Beauty*  
 V. tobacco mosaic  
 Holmes, F.O., 1934  
*S. muricatum*, Ait.  
 V. red currant ring spot  
 Klessner, P.J., 1951  
*S. miniatum*, Bernh. ex Willd.  
 V. cucumber mosaic  
 Hoggan, Isme A., 1927  
 V. potato X  
 Hoggan, Isme A., 1927  
 V. potato Y  
 Hoggan, Isme A., 1927  
 Koch, K.L., 1933  
 V. tobacco mosaic  
 Hoggan, Isme A., 1927  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*S. neo-antipoviczii*, Buk.  
 V. potato yellow dwarf  
 Black, L.M., 1937  
*S. nigrum*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. atropa belladonna mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. beet curly top  
 Costa, A.S., 1952  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S. and T.K. Nariani, 1952  
 V. cucumber mosaic  
 Burnett, G., 1934  
 Fulton, Robert W., 1941  
 Govier, D.A., 1957  
 Hoggan, Isme A., 1935  
 Johnson, J., 1926  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Wellman, F.L., 1935  
 V. petunia mosaic  
 Johnson, J., 1926  
 V. potato A  
 Schultz, E.S. and Donald Folsom, 1923  
 V. potato leaf roll  
 Dykstra, T.P., 1930  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. potato X  
 Dennis, R.W.G., 1939  
 Folsom, Donald and Reiner Bonde, 1937  
 Fulton, Robert W., 1941  
 Johnson, James, 1925  
 Smith, J. Henderson, 1928  
 Thompson, A.D., 1956  
 V. potato Y  
 Koch, K.L., 1933  
 Smith, Kenneth M. and R.W.G. Dennis, 1940  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Anderson, C.W. and M.K. Corbett, 1957  
 Fulton, Robert W., 1941  
 Holmes, Francis O., 1946  
 V. tobacco leaf curl  
 Pal, B.P. and R.K. Tandon, 1937  
 Pruthi, Hem Singh and C.K. Samuel, 1941  
 V. tobacco mosaic  
 Caldwell, John, 1932  
 Crawford, R.F., 1921

- Solanum nigrum*, L. (cont.)
- V. tobacco mosaic
    - Das, C.R. and S.P. Raychaudhuri, 1953
    - Fernow, Karl Hermann, 1925
    - Fulton, Robert W., 1941
    - Hoggan, Isme A., 1927
    - Holmes, Francis O., 1946
    - Jarrett, Phyllis H., 1930
    - Johnson, J., 1926
    - Sheffield, F.M.L., 1931
    - Stover, W.G., 1928
    - Stover, W.G. and M.T. Vermillion, 1933
  - V. tobacco ring spot
    - Wingard, S.A., 1928
  - V. tobacco streak
    - Fulton, Robert W., 1948
  - V. tobacco yellow dwarf
    - Hill, A.V., 1950
  - V. tomato bunchy top
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato spotted wilt
    - Milbrath, J.A., 1939
    - Smith, Kenneth M., 1931, 1932
  - V. vaccinium false blossom
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - S. *nigrum* var. *douglassi*, Dun. \*
    - V. beet curly top
      - Severin, Henry H.P., 1929
  - S. *nigrum* var. *nodiflorum* \*
    - V. tobacco mosaic
      - Holmes, F.O., 1934
  - S. *nigrum* var. *villosum*, Mill.
    - V. potato leaf roll
      - Dykstra, T.P., 1933
    - V. potato M \*
      - Bagnall, R.H. and R.H. Larson, 1957
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. potato paracrinkle
      - Bagnall, R.H. and R.H. Larson, 1957
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. potato X
      - Dykstra, T.P., 1933
      - Smith, J. Henderson, 1928
    - V. potato Y
      - Dykstra, T.P., 1933
    - V. tobacco mosaic
      - Jarrett, Phyllis H., 1930
  - S. *nodiflorum*, Jacq.
    - V. arabis mosaic
      - Smith, Kenneth M. and Roy Markham, 1944
    - V. cucumber green mottle mosaic
      - Vasudeva, R.S. and T.K. Nariani, 1952
    - V. cucumber mosaic
      - Govier, D.A., 1957
      - Nariani, T.K. and Nirmaljit Singh, 1952
      - Price, W.C., 1940
    - V. lucerne mosaic
      - Price, W.C., 1940
    - V. potato aucuba mosaic
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - V. potato stunt
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - V. potato X
      - Cockerham, George, 1943
      - Dennis, R.W.G., 1939
      - Smith, J. Henderson, 1928
      - Thompson, A.D., 1956
      - Vasudeva, R. Sahai and T.B. Lal, 1944
    - V. potato Y
      - Cockerham, George, 1943
      - Sakimura, K., 1953
      - Smith, Kenneth M. and R.W.G. Dennis, 1940
      - Vasudeva, R. Sahai and T.B. Lal, 1945
    - V. red currant ring spot
      - Klessner, P.J., 1951
    - V. tobacco mosaic
      - Caldwell, John, 1932
      - Jarrett, Phyllis H., 1930
      - Sheffield, F.M.L., 1931, 1936
      - Smith, J. Henderson, 1930
    - V. tobacco necrosis
      - Price, W.C., 1940
  - S. *nodiflorum*, Jacq. (cont.)
    - V. tobacco ring spot
      - Price, W.C., 1940
    - V. tobacco ring spot no. 2
      - Hildebrand, E.M., 1942
    - V. tomato spotted wilt
      - Smith, Kenneth M., 1931, 1932
  - S. *opacum*, A. Br. & Bouche
    - V. tobacco yellow dwarf
      - Hill, A.V. and M. Mandryk, 1954
    - V. tomato big bud
      - Hill, A.V. and M. Mandryk, 1954
  - S. *polyadenium*, Greenm.
    - V. beet curly top
      - Watson, R.D. and T.E. Randall, 1951
    - V. potato Y
      - Easton, G.D., R.H. Larson and R.W. Hougas, 1958
  - S. *pseudocapsicum*, L.
    - V. tobacco etch
      - Greenleaf, W.H., 1953
    - V. tobacco mosaic
      - Greenleaf, W.H., 1953
      - Holmes, F.O., 1934
    - V. tobacco ring spot
      - Wingard, S.A., 1928
    - V. tomato ring spot
      - Samson, R.W. and E.P. Imle, 1942
  - S. *pyracanthum*, Jacq.
    - V. tobacco mosaic
      - Hoggan, Isme A., 1927
  - S. *rostratum*, Dun.
    - V. potato M \*
      - Bagnall, R.H. and R.H. Larson, 1957
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. potato paracrinkle
      - Bagnall, R.H. and R.H. Larson, 1957
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. potato X
      - Johnson, James, 1925
    - V. turnip mosaic
      - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - S. *rybinii*, Juz. & Buk.
    - V. potato Y
      - Easton, G.D., R.H. Larson and R.W. Hougas, 1958
  - S. *saltense*, Hawkes
    - V. potato Y
      - Easton, G.D., R.H. Larson and R.W. Hougas, 1958
  - S. *sanitwongsei*, Craib
    - V. tobacco mosaic
      - Holmes, Francis O., 1946
    - V. tomato spotted wilt
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - S. *seafortianum*, Andr.
    - V. tomato spotted wilt
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - V. vaccinium false blossom
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - S. *simplicifolium*, Bitt.
    - V. beet curly top
      - Watson, R.D. and T.E. Randall, 1951
  - S. *simplicifolium* x *S. rybinii*, Juz. & Buk.
    - V. potato Y
      - Easton, G.D., R.H. Larson and R.W. Hougas, 1958
  - S. *simplicifolium* x *S. toralapanum*, Card. & Hawkes
    - V. potato Y
      - Easton, G.D., R.H. Larson and R.W. Hougas, 1958
  - S. *sisymbriifolium*, Lam.
    - V. potato M \*
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. potato paracrinkle
      - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - V. tomato bunchy top
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- Solanum sodomaeum*, Hort. ex Dun.  
 V. tomato bunchy top  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. spp.*  
 V. beet curly top  
 Watson, R.D. and T.E. Randall, 1951
- S. stoloniferum*, Schlecht. & Bouche  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- S. torvum*, Sw.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- S. triflorum*, Nutt.  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tobacco ring spot  
 Pound, Glenn S., 1949  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. turnip mosaic  
 Pound, Glenn S., 1948
- S. trilobatum*, L.  
 V. vaccinium false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. tuberosum*, L.  
 V. abutilon infectious variegation  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. aster yellows  
 Bonde, Reiner and E.S. Schultz, 1947  
 Burke, O.D., 1941  
 Jensen, James H. and H. Douglas Tate, 1947  
 Leach, J.G. and C. Franklin Bishop, 1944  
 Milbrath, J.A. and W.H. English, 1948, 1949  
 Raymer, W.B., 1956  
 Raymer, W.B. and Clark R. Amen, 1954  
 Self, R.L. and H.M. Darling, 1949  
 Severin, Henry H.P., 1940  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 Severin, Henry H.P. and Frank A. Haasis, 1934  
 Younkin, S.G., 1943  
 V. beet curly top  
 Giddings, N.J., 1944, 1947, 1952, 1953, 1954  
 Jones, Leon K., C.L. Vincent and Earl F. Burk, 1940  
 Menzies, J.D. and N.J. Giddings, 1952, 1953  
 Milbrath, J.A., 1946  
 Severin, Henry H.P., 1929  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. clover witches' broom \*  
 Frazier, N.W. and A.F. Posnette, 1957  
 V. cucumber mosaic  
 Johnson, James, 1927  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1922  
 V. dodder latent mosaic  
 Bennett, C.W., 1944, 1949  
 V. eggplant mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 V. lucerne mosaic  
 Black, L.M. and W.C. Price, 1940  
 Dykstra, T.P., 1939  
 Folsom, Donald, 1953  
 Hoggan, Isme A., 1927  
 Houston, Byron R. and John W. Oswald, 1951, 1953  
 McKay, M.B. and T.P. Dykstra, 1932  
 Milbrath, J.A., 1952  
 Oswald, John W., 1950  
 Porter, D.R., 1931, 1935  
 Richardson, D.E. and T.W. Tinsley, 1956  
 V. lucerne witches' broom  
 Helms, Katie, 1957  
 Kunkel, L.O., 1952  
 V. (physalis) mosaic \*  
 Melhus, I.E., 1922  
 V. potato A  
 Abbott, E.V., 1929
- S. tuberosum*, L. (cont.)  
 V. potato A  
 Bawden, F.C., 1936  
 Cockerham, George, 1943  
 Dykstra, T.P., 1935, 1936, 1939  
 Dykstra, T.P. and W.C. Whitaker, 1938  
 Goss, R.W., 1929  
 Hoggan, Isme A., 1927  
 Johnson, James, 1929  
 Koch, Karl and James Johnson, 1935  
 MacLachlan, D.S. and R.H. Larson, 1953  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 McKay, M.B. and T.P. Dykstra, 1932  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Porter, D.R., 1935  
 Schultz, E.S., C.F. Clark, R. Bonde, W.P. Raleigh and F.J. Stevenson, 1934  
 Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
 Schultz, E.S., C.F. Clark and F.J. Stevenson, 1940  
 Schultz, E.S. and Donald Folsom, 1923, 1925  
 Schultz, E.S. and W.P. Raleigh, 1936  
 Valleau, W.D. and E.M. Johnson, 1930  
 Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946  
 Young, P.A., 1930  
 Young, P.A. and H.E. Morris, 1930  
 V. potato anecrotic mosaic \*  
 Quanjer, H.M., 1931  
 V. potato aucuba mosaic  
 Atanasoff, D., 1926  
 Dennis, R.W.G., 1939  
 Dykstra, T.P., 1939  
 Quanjer, H.M., 1931  
 V. (potato) giant hill \*  
 Porter, D.R., 1935  
 V. potato leaf roll  
 Abbott, E.V., 1929  
 Artschwager, Ernest F., 1918  
 Atanasoff, D., 1924  
 Bald, J.G. and E.M. Hutton, 1950  
 Barton-Wright, Eustace and Alan McBain, 1933  
 Bawden, F.C. and B. Kassanis, 1946  
 Broadbent, L., 1946  
 Broadbent, L., R.P. Chaudhuri and L. Kapica, 1950  
 Broadbent, L. and T.W. Tinsley, 1951  
 Davidson, T.R., 1955  
 Davidson, T.R. and G.B. Sanford, 1955  
 Dennis, R.W.G., 1939  
 Dykstra, T.P., 1933  
 Dykstra, T.P. and W.C. Whitaker, 1938  
 Elze, D.L., 1931  
 Folsom, Donald, 1921  
 Gardner, Max W. and James B. Kendrick, 1924  
 Gilbert, Alfred H., 1923, 1928  
 Gilbert, G.H., 1929  
 Goss, R.W., 1929  
 Hoggan, Isme A., 1927  
 Jones, Leon K., 1944  
 Kassanis, B., 1952  
 Kendrick, James B., Sr., 1952  
 Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
 Klostermeyer, E.C., 1953  
 Koch, Karl and James Johnson, 1935  
 Link, G.K.K., 1923  
 Locke, Seth Barton, 1947  
 MacCarthy, H.R., 1954  
 McKay, M.B. and T.P. Dykstra, 1932  
 Porter, D.R., 1935  
 Quanjer, H.M., 1920, 1931  
 Quanjer, H.M. and D.L. Elze, 1930  
 Rich, Avery E., 1949, 1951  
 Schultz, E.S. and R. Bonde, 1929  
 Schultz, E.S., C.F. Clark, R. Bonde, W.P. Raleigh and F.J. Stevenson, 1934  
 Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
 Schultz, E.S. and Donald Folsom, 1921, 1923, 1925  
 Sheffield, F.M.L., 1943  
 Smith, Kenneth M., 1929, 1931  
 Stewart, F.C. and Hugh Glasgow, 1930, 1931

## Solanum tuberosum, L. (cont.)

- V. potato leaf roll  
Webb, R. E., 1956  
Webb, R. E., R. H. Larson and J. C. Walker, 1952  
Webb, R. E. and E. S. Schultz, 1954  
Whitehead, T., 1924, 1931  
Whitehead, T. and J. F. Currie, 1931  
Whitehead, T., J. F. Currie and W. Maldwyn Davies, 1932  
Young, P. A., 1930  
Young, P. A. and H. E. Morris, 1930
- V. potato leaf rolling mosaic  
Dykstra, T. P., 1935, 1936  
Dykstra, T. P. and W. C. Whitaker, 1938  
Hoggan, Isme A., 1927  
Johnson, James, 1929  
McKay, M. B. and T. P. Dykstra, 1932  
Porter, D. R., 1935  
Schultz, E. S. and Donald Folsom, 1923, 1925  
Young, P. A., 1930  
Young, P. A. and H. E. Morris, 1930
- V. potato M \*
- Bagnall, R. H. and R. H. Larson, 1957
- V. potato necrotic \*
- Schultz, E. S. and W. P. Raleigh, 1933
- V. potato paracrinkle  
Alfieri, S. A. and R. F. Stouffer, 1957  
Bagnall, R. H. and R. H. Larson, 1957  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Barton-Wright, Eustace and Alan McBain, 1933  
Dykstra, T. P., 1936, 1939  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Kassanis, B., 1955  
Whitehead, T., 1937
- V. potato rosette  
Hutton, E. M. and C. E. W. Oldaker, 1949
- V. potato spindle tuber  
Abbott, E. V., 1929  
Bald, J. G., D. O. Norris and B. T. Dickson, 1941  
Fernow, K. H., 1923  
Folsom, Donald, 1923  
Folsom, Donald and E. S. Schultz, 1924  
Goss, R. W., 1926, 1928, 1929, 1930, 1931  
McKay, M. B. and T. P. Dykstra, 1932  
Porter, D. R., 1935  
Schultz, E. S., C. F. Clark, R. Bonde, W. P. Raleigh and F. J. Stevenson, 1934  
Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937  
Schultz, E. S. and D. Folsom, 1922, 1923, 1925  
Werner, H. O., 1926  
Young, P. A., 1930  
Young, P. A. and H. E. Morris, 1930
- V. potato stem mottle  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. (potato) stem-end browning \*
- Ross, A. Frank, 1946
- V. potato stunt  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. potato witches' broom  
Kunkel, L. O., 1952  
McKay, M. B. and T. P. Dykstra, 1932  
Porter, D. R., 1935  
Young, P. A., 1930  
Young, P. A. and H. E. Morris, 1928, 1930
- V. potato X  
Ainsworth, G. C., G. H. Berkeley and J. Caldwell, 1934  
Atanasoff, D., 1924  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Bald, J. G., 1945  
Bawden, F. C., 1936  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Blodgett, F. M., 1927  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1933, 1935, 1936, 1939  
Fernow, Karl Hermann, 1925  
Folsom, Donald, 1920  
Folsom, Donald and Reiner Bonde, 1937  
Folsom, Donald and E. S. Schultz, 1924

## S. tuberosum, L. (cont.)

- V. potato X  
Gilbert, Alfred H., 1923  
Goss, R. W., 1931  
Gussow, H. T., 1918  
Hoyman, Wm. G., 1951  
Jones, Leon K. and C. L. Vincent, 1937  
Jones, Leon K., C. L. Vincent and Earl F. Burk, 1940  
Koch, K. L., 1933  
Koch, Karl and James Johnson, 1935  
Krantz, F. A. and G. R. Bisby, 1921  
Ladeburg, R. C. and R. H. Larson, 1949  
Larson, R. H., 1943, 1944, 1947  
Larson, R. H. and R. C. Ladeburg, 1949  
Link, G. K. K., 1923  
Matthews, R. E. F., 1949  
McKay, M. B. and T. P. Dykstra, 1932  
McKinney, H. H., 1928  
Norris, D. O., 1953, 1954  
Quanjer, H. M., 1931  
Roberts, F. M., 1948  
Ross, A. Frank, 1950  
Schultz, E. S., 1951  
Schultz, E. S., C. F. Clark, R. Bonde, W. P. Raleigh and F. J. Stevenson, 1934  
Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937  
Schultz, E. S., C. F. Clark and F. J. Stevenson, 1940  
Schultz, E. S. and Donald Folsom, 1920  
Schultz, E. S., Donald Folsom, F. Merrill Hildebrandt and Lon A. Hawkins, 1919  
Schultz, E. S. and W. P. Raleigh, 1933, 1936  
Smith, J. Henderson, 1928  
Smith, Kenneth M., 1927, 1929, 1930  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Tompkins, C. M., 1926  
Valleau, W. D. and E. M. Johnson, 1930  
Vasudeva, R. Sahai and T. B. Lal, 1944  
Whitehead, T., 1937  
Whitehead, T. and J. F. Currie, 1931  
Whitehead, T., J. F. Currie and W. Maldwyn Davies, 1932
- V. potato Y  
Atanasoff, D., 1924, 1925  
Bald, J. G., 1945  
Bald, J. G. and D. O. Norris, 1945  
Bawden, F. C., 1936  
Bawden, F. C. and B. Kassanis, 1946, 1947, 1951  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Broadbent, L., 1946  
Broadbent, L., R. P. Chaudhuri and L. Kapica, 1950  
Broadbent, L. and T. W. Tinsley, 1951  
Cockerham, George, 1943  
Corbett, M. K., 1955  
Darby, J. F., R. H. Larson and J. C. Walker, 1951  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1933, 1936, 1939  
Easton, G. D., R. H. Larson and R. W. Hougas, 1958  
Hoggan, Isme A., 1927  
Hutton, E. M. and J. W. Peak, 1952  
Johnson, James, 1927  
Jones, Leon K. and C. L. Vincent, 1937  
Jones, Leon K., C. L. Vincent and Earl F. Burk, 1940  
Kassanis, B., 1942  
Koch, K. L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R. H., 1947  
Larson, R. H. and J. F. Darby, 1951  
Oswald, John W., 1948  
Quanjer, H. M., 1931  
Richardson, D. E., 1958  
Ross, A. Frank, 1948, 1950  
Samson, R. W., 1930  
Schultz, E. S., C. F. Clark, R. Bonde, W. P. Raleigh and F. J. Stevenson, 1934  
Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937

- Solanum tuberosum*, L. (cont.)
- V. potato Y
    - Schultz, E.S. and D. Folsom, 1922, 1923, 1925
    - Smith, Kenneth M. and R. W. G. Dennis, 1940
    - Valleau, W.D. and E.M. Johnson, 1930
    - Vasudeva, R. Sahai and T.B. Lal, 1945
    - Vincent, C.L. and L.K. Jones, 1936
    - Watson, Marion A., 1956
    - Whitehead, T., 1937
  - V. potato yellow dwarf
    - Black, L.M., 1937, 1938, 1940, 1943
    - Hansing, E.D., 1942, 1943
    - Hougas, R.W., 1951
    - Koch, K., 1934
    - Larson, R.H., 1945, 1947
    - Muncie, J.H., 1935
    - Walker, J.C. and R.H. Larson, 1939
  - V. potato yellow spot
    - Bonde, Reiner and Donald Merriam, 1954
  - V. potato yellow vein
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. tobacco broad ring spot
    - Johnson, James and Robert W. Fulton, 1942
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco leaf curl
    - Vasudeva, R.S. and J. Sam Raj, 1948
  - V. tobacco leaf roll \*
    - Goenaga, Alvaro, 1945
  - V. tobacco mosaic
    - Berkeley, G.H., 1927
    - Blodgett, F.M., 1927
    - Fernow, Karl Hermann, 1925
    - Hoggan, Isme A., 1927
    - Holmes, Francis O., 1946
    - Johnson, James, 1927, 1929
    - Jones, Leon K., C.L. Vincent and Earl F. Burk, 1940
    - Quanjer, H.M., 1920
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
    - Grogan, R.G. and W.C. Schnathorst, 1955
    - Henderson, R.G. and S.A. Wingard, 1931
    - Valleau, W.D., 1932
  - V. tobacco streak
    - Fulton, Robert W., 1948
  - V. tomato big bud
    - Helms, Katie, 1957
    - Hill, A.V. and M. Mandryk, 1954
    - Norris, D.O., 1954
  - V. tomato bushy stunt
    - Smith, Kenneth M., 1935
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt
    - Gardner, M.W. and O.C. Whipple, 1934
    - Hutton, E.M., 1947
    - Hutton, E.M. and A.R. Peak, 1952
    - Milbrath, J.A., 1939
    - Norris, D.O., 1951
    - Norris, D. and J.G. Bald, 1943
    - Parris, G.K., 1940
    - Sakimura, K., 1940
    - Smith, Kenneth M., 1931, 1932
  - V. vaccinium false blossom
    - Kunkel, L.O., 1945
- S. verrucosum*, Schlecht.
- V. potato yellow dwarf
    - Black, L.M., 1937
- S. xanthocarpum*, Schrad. & Wendl.
- V. vaccinium false blossom
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- SOLIDAGO ((Vaill.)) L. 1735 (Compositae)
- S. spp.*
- V. prunus B \*
    - Fulton, Robert W., 1957
- SONCHUS ((Tourn.)) L. 1735 (Compositae)
- S. arvensis*, L.
- V. aster yellows
    - Kunkel, L.O., 1926
- S. arvensis*, L. (cont.)
- V. beet mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. asper*, (L.) Hill
- V. aster yellows
    - Frazier, Norman W. and Henry H.P. Severin, 1945
  - V. beet curly top
    - Severin, Henry H.P., 1934
  - V. beet ring spot \*
    - Harrison, B.D., 1957
  - V. lettuce mosaic
    - Ainsworth, G.C. and L. Ogilvie, 1939
  - V. lucerne dwarf
    - Freitag, J.H., 1951
- S. oleraceus*, L.
- V. aster yellows
    - Frazier, Norman W. and Henry H.P. Severin, 1945
    - Kunkel, L.O., 1926
  - V. beet curly top
    - Severin, Henry H.P., 1934
  - V. datura rugose leaf curl
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tobacco streak
    - Fulton, Robert W., 1948
  - V. tobacco yellow dwarf
    - Helson, G.A.H., 1950
- SORBUS ((Tourn.)) L. 1735 (Rosaceae)
- S. aucuparia*, L.
- V. mountain ash infectious variegation
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- S. sitchensis*, Roem.
- V. apple mosaic
    - Thomas, H. Earl and L.M. Massey, 1939
- SORGHUM L. 1735 (Gramineae)
- S. arundinaceum*, Roem. & Schult.
- V. grass natal mosaic \*
    - Storey, H.H., 1929
  - V. sugarcane mosaic
    - Storey, H.H., 1929
- S. halepense*, (L.) Pers.
- V. brome mosaic
    - McKinney, H.H., 1944
- S. spp.*
- V. sugarcane mosaic
    - Storey, H.H., 1929
- S. vulgare*, Pers.
- V. barley yellow dwarf
    - Oswald, John W. and Byron R. Houston, 1953
  - V. brome mosaic
    - McKinney, H.H., 1944
  - V. rice and corn leaf-gall \*
    - Agati, Julian A. and Carlos A. Calica, 1950
  - V. sugarcane mosaic
    - Costa, A.S. and M.P. Penteadó, 1951
    - Chona, B.L. and S.A. Rafay, 1950
- S. vulgare* var. *saccharatum*, (L.) Boerl.
- V. sugarcane mosaic
    - Brandes, E.W., 1920
    - Matz, Julius, 1933
- S. vulgare* var. *sudanense*, (Piper) Hichtc.
- V. barley yellow dwarf
    - Oswald, John W. and Byron R. Houston, 1953
  - V. brome mosaic
    - McKinney, H.H., 1944
- SPARAXIS Ker-Gawl. 1804 (Iridaceae)
- S. spp.*
- V. cucumber mosaic
    - Smith, Floyd F. and Philip Brierley, 1944
  - V. sparaxis mosaic
    - Smith, Floyd F. and Philip Brierley, 1944
- SPATHOGLOTTIS Blume 1825 (Orchidaceae)
- S. spp.*
- V. orchid \*
    - Murakishi, H. and M. Ishii, 1954

## SPERGULA L. 1735 (Caryophyllaceae)

- S. arvensis*, L.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1957, 1958  
 V. tobacco streak  
 Fulton, Robert W., 1948
- SPINACIA ((Tourn.)) L. 1735 (Chenopodiaceae)  
*S. oleracea*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Carsner, E., 1919  
 Costa, A.S., 1952  
 Giddings, N.J., 1944  
 Lackey, C.F., 1929  
 Severin, H.H.P., 1928  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. beet leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. beet mosaic  
 Hoggan, I.A., 1933  
 McLean, D.M., 1952  
 Pound, Glenn S., 1947  
 Severin, Henry H.P., 1948  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellows  
 Bennett, C.W. and A.S. Costa, 1949  
 McLean, D.M., 1953  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1940, 1941  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. cucumber green mottle mosaic  
 Storey, I.F., 1939  
 V. cucumber mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen-Ching and Glenn S. Pound, 1952  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Fulton, Joseph P., 1950  
 Fulton, Robert W., 1941  
 Govier, D.A., 1957  
 Hoggan, I.A., 1930, 1933, 1935  
 Larsh, Howard W. and J.R. Shay, 1945  
 McClintock, J.A. and Loren B. Smith, 1918  
 Nienow, Inez, 1948  
 Pound, Glenn S. and Pen-Ching Cheo, 1952  
 Price, W.C., 1934  
 Wellman, F.L., 1935  
 Whipple, O.C. and J.C. Walker, 1941  
 V. cucumber western mosaic \*  
 Severin, Henry H.P., 1948  
 Severin, Henry H.P. and Julius H. Freitag, 1948  
 V. lucerne mosaic  
 Price, W.C., 1940  
 Severin, Henry H.P., 1948  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. red currant ring spot  
 Klesser, P.J., 1951  
 V. rhubarb ring spot \*  
 Vaughan, Edward K. and John W. Yale, Jr., 1953  
 Yale, John W., Jr. and Edward K. Vaughan, 1954  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco mosaic  
 Fulton, Robert W., 1941  
 Grant, T.J., 1934

*S. oleracea*, L. (cont.)

- V. tobacco mosaic  
 Holmes, Francis O., 1946  
 Jones, L.K., 1934  
 V. tobacco ring spot  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Fulton, Robert W., 1941  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Hoggan, I.A., 1933  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
 Hollings, M., 1955  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 Sakimura, K., 1940  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*S. tetrandra*, Stev. ex Bieb.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961

## STACHYTARPHETA Vahl 1805 (Verbenaceae)

- S. cayennensis*, Schau.  
 V. stachytarpheta cayennensis mosaic \*  
 Jensen, D.D., 1949  
*S. indica*, Vahl  
 V. sandal spike  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## STATICE Tourn. ex L. 1735 (Plumbaginaceae)

- S. armeria*, L.  
 V. tobacco necrosis  
 Price, W.C., 1940

## STELLARIA L. 1753 (Caryophyllaceae)

- S. media*, (L.) Cyr.  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Bennett, C.W. and A.S. Costa, 1949  
 Bennett, C.W. and Aziz Tanrisever, 1957  
 Carsner, E., 1919  
 Carsner, Eubanks and C.F. Stahl, 1924  
 Costa, A.S., 1952  
 Lackey, C.F., 1932, 1937  
 Severin, Henry H.P., 1934  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1937, 1938  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. peach yellow bud mosaic  
 Karle, Harry P., 1957  
 V. raspberry Scottish leaf curl  
 Harrison, B.D., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tomato spotted wilt  
 Holmes, Francis O., 1948

- Stellaria media*, (L.) Cyr. (cont.)  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- STERCULIA L. 1747 (Sterculiaceae)  
*S. laevis*, Wall.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. rhinopetala*, K. Schum.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. setigera*, Del.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. tragacantha*, Lindl.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958
- STIPA L. 1753 (Gramineae)  
*S. comata*, Trin. & Rupr.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
*S. robusta*, Scribn.  
 V. wheat streak mosaic  
 McKinney, H.H. and Hurley Fellows, 1951
- STREPTANTHERA Sweet 1827 (Iridaceae)  
*S. cuprea*, Sweet  
 V. streptanthera mosaic  
 Smith, Floyd F. and Philip Brierley, 1944
- STREPTOSOLEN Miers 1850 (Solanaceae)  
*S. jamesonii*, Miers  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- STRYCHNOS L. 1735 (Loganiaceae)  
*S. bifera*, Gilg. & Busse  
 V. groundnut rosette  
 Evans, A.C., 1954
- STYLOSANTHES Sw. 1788 (Leguminosae)  
*S. bojeri*, Vog.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. erecta*, Beauv.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. gracilis*, H. B. & K.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. guianensis*, Sw.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. leiocarpa*, Vog.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. montevidensis*, Vog.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. spp.*  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956  
*S. sundaica*, Taub.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956
- SUAEDA Forsk. 1775 (Chenopodiaceae)  
*S. fruticosa*, Forsk.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. moquini*, Greene  
 V. beet curly top  
 Carsner, E., 1925  
 Severin, Henry H.P., 1939  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. splendens*, Gren. & Godr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- SYMPHORICARPOS Dill. ex Juss. 1789 (Caprifoliaceae)  
*S. albus*, (L.) Blake  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- SYNEDRELLA Gaert. 1791 (Compositae)  
*S. nodiflora*, Gaertn.  
 V. tobacco leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- SYNTHESISMA Walt. 1788 (Gramineae)  
*S. sanguinale*, Dulac.  
 V. sugarcane mosaic  
 Brandes, E.W., 1920  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
 Chardon, C.E. and R.A. Veve, 1923
- SYRINGA L. 1735 (Oleaceae)  
*S. japonica*, Decne.  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
 Lorentz, Paul and Philip Brierley, 1953  
*S. vulgaris*, L.  
 V. lilac ring mosaic  
 Beale, J.H. and Helen Purdy Beale, 1952  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
 Lorentz, Paul and Philip Brierley, 1953  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- TABEBUIA Gomez 1803 (Bignoniaceae)  
*T. pallida*, Miers  
 V. tabebuia witches' broom  
 Cook, M.T., 1937, 1938
- TACSONIA Juss. 1789 (Passifloraceae)  
*T. spp.*  
 V. cucumber mosaic  
 Natrass, R.M., 1944
- TAGETES L. 1737 (Compositae)  
*T. erecta*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P., 1929  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. lettuce mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Wingard, S.A., 1928  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- T. patula*, L.  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1934, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. cucumber mosaic  
 Nienow, Inez, 1948  
 Wellman, F.L., 1934, 1935  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946
- T. signata*, Bartl.  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*T. singata* var. *pumila*, Hort.  
 V. bayberry yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- TALINUM Adans. 1763 (Portulacaceae)  
 T. cafferum, Eckl. & Zeyh.  
 V. groundnut rosette  
 Evans, A.C., 1954
- TANACETUM Tourn. ex L. 1735 (Compositae)  
 T. boreale, Fisch. ex Link  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 T. camphoratum, Less.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 T. vulgare, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- TARAXACUM L. 1735 (Compositae)  
 T. officinale, Weber  
 V. aster yellows  
 Kunkel, L.O., 1926  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947  
 V. raspberry yellow dwarf \*  
 Harrison, B.D., 1958  
 V. tobacco streak  
 Fulton, Robert W., 1948
- TEPHROSIA Pers. 1807 (Leguminosae)  
 T. spp.  
 V. (legume) little leaf disease \*  
 Hutton, E.M. and N.E. Grylls, 1956
- TETRAGONIA L. 1735 (Aizoaceae)  
 T. echinata, Ait.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 T. expansa, Thunb.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. clover big vein  
 Black, L.M., 1945  
 V. cucumber mosaic  
 Hollings, M., 1955  
 Wellman, F.L., 1935  
 V. cucumber western mosaic \*  
 Severin, Henry H.P., 1948  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. ranunculus mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Priode, C.N., 1928  
 Wingard, S.A., 1928  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- T. expansa, Thunb. (cont.)  
 V. tobacco ring spot no. 2  
 Price, W.C., 1940  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tomato black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958
- THEA L. 1735 (Theaceae)  
 T. sinensis, L. (Camellia sinensis, (L.) Kuntze)  
 V. tea phloem necrosis  
 Bond, T.E.T., 1947
- THELYPODIUM Endl. 1839 (Cruciferae)  
 T. lasiophyllum, Greene  
 V. beet curly top  
 Severin, Henry H.P., 1934
- THEOBROMA L. 1737 (Sterculiaceae)  
 T. angustifolia, ((Moc. & Sesse)) ex DC.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. bicolor, Humb. & Bonpl.  
 V. cacao swollen shoot  
 Posnette, A.F. and J. McA. Todd, 1951  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. cacao, L.  
 V. cacao swollen shoot  
 Attafuah, A. and T.W. Tinsley, 1958  
 Baker, R.E.D. and W.T. Dale, 1947  
 Crowdy, S.H. and A.F. Posnette, 1947  
 Goodall, D.W., 1949  
 Hanna, A.D. and W. Heatherington, 1957  
 Posnette, A.F., 1947, 1950  
 Posnette, A.F. and N.F. Robertson, 1950  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Posnette, A.F. and A.H. Strickland, 1948  
 Posnette, A.F. and J. McA. Todd, 1951, 1955  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. grandiflorum, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. microcarpa, Mart.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. obovata, Klotzsch, ex Bern.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 T. speciosa, Willd. ex Spreng.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- THLASPI ((Tourn.)) L. 1737 (Cruciferae)  
 T. arvense, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet yellows  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 V. tobacco ring spot  
 Pound, Glenn S., 1949  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945



- Thlaspi arvense*, L. (cont.)  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- THUNBERGIA** Retz. 1776 (Acanthaceae)  
*T. alata*, Bojer  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. lucerne mosaic  
 Price, W.C., 1940  
 V. prunus B \*  
 Fulton, Robert W., 1957
- TIGRIDIA** Juss. 1789 (Iridaceae)  
*T. pavonia*, Ker-Gawl,  
 V. tigridia mosaic  
 Smith, Floyd F. and Philip Brierley, 1944
- TILIA** ((Tourn.)) L. 1735 (Tiliaceae)  
*T. platyphyllos*, Scop.  
 V. rose cowl forming  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*T. spp.*  
 V. rose cowl forming  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- TITHONIA** Desf. ex Juss. 1789 (Compositae)  
*T. rotundifolia*, (Mill.) Blake  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 Keller, John R., 1953  
 V. tithonia rotundifolia mosaic \*  
 Cook, M.T., 1936  
*T. speciosa*, Hook.  
 V. prunus B \*  
 Fulton, Robert W., 1957
- TORENIA** L. 1751 (Scrophulariaceae)  
*T. fourneri*, Lind.  
 V. clover big vein  
 Black, L.M., 1945  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- TRACHELIUM** Tourn. ex L. 1735 (Campanulaceae)  
*T. caeruleum*, L.  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*T. spp.*  
 V. tomato spotted wilt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- TRACHYMENE** Rudge 1811 (Umbelliferae)  
*T. caerulea*, R. Graham  
 V. aster yellows  
 Severin, Henry H.P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco necrosis  
 Price, W.C., 1940  
 V. tobacco ring spot  
 Price, W.C., 1940
- TRADESCANTIA** Rupp. ex L. 1735 (Commelinaceae)  
*T. spp.*  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- TRAGOPOGON** ((Tourn.)) L. 1735 (Compositae)  
*T. porrifolius*, L.  
 V. aster yellows  
 Kunkel, L.O., 1926  
 Severin, Henry H.P., 1934  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- TRIANTHEMA** L. 1753 (Aizoaceae)  
*T. portulacastrum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahn, 1961
- TRICHOSANTHES** L. 1737 (Cucurbitaceae)  
*T. anguina*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. cucumber green mottle mosaic  
 Azad, R.N., 1956  
 V. cucumber mosaic  
 Jagger, I.C., 1918  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, J.H., 1956
- TRIFOLIUM** ((Tourn.)) L. 1735 (Leguminosae)  
*T. agrarium*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. potato yellow dwarf  
 Black, L.M., 1937  
*T. alexandrinum*, L.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
*T. angustifolium*, L.  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
*T. carolinianum*, Michx.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*T. dubium*, Sibth.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*T. fragiferum*, L.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
*T. giganteum* \*  
 V. lucerne mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*T. glomeratum*, L.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. pea enation mosaic  
 Hagedorn, D.J., 1957  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
 V. tobacco streak  
 Fulton, Robert W., 1948  
*T. hirtum*, All.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
*T. hybridum*, L.  
 V. alsike clover mosaic  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. aster yellows  
 Raymer, W.B., 1956  
 V. bean yellow mosaic  
 Baggett, James R., 1957  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J. and E.W. Hanson, 1953, 1957  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
 Hungerford, C.W. and Irvin G. Hillyer, 1954  
 V. beet curly top  
 Giddings, N.J., 1944  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. cucumber mosaic  
 Hagedorn, D.J., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954

- Trifolium hybridum*, L. (cont.)
- V. gladiolus \*
    - Snow, Gordon F., 1955
  - V. lucerne dwarf
    - Freitag, J.H., 1951
  - V. lucerne mosaic
    - Hagedorn, D.J. and E.W. Hanson, 1953, 1957
    - Hanson, E.W. and D.J. Hagedorn, 1954, 1956
    - Kreitlow, K.W. and W.C. Price, 1949
  - V. pea enation mosaic
    - Johnson, Folke and Leon K. Jones, 1937
  - V. pea mosaic
    - Johnson, F. and L.K. Jones, 1936
    - Murphy, D.M. and W.H. Pierce, 1937
    - Pierce, W.H., 1937
  - V. pea mottle
    - Johnson, Folke, 1942
    - Johnson, F. and L.K. Jones, 1936, 1937
  - V. pea streak
    - Hagedorn, D.J., 1948
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. potato yellow dwarf
    - Black, L.M., 1937
  - V. red clover mosaic \*
    - Dickson, B.T., 1922
  - V. red clover vein mosaic
    - Graves, Clinton H., Jr. and D.J. Hagedorn, 1956
    - Hagedorn, D.J. and E.W. Hanson, 1951, 1953, 1957
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - Hanson, E.W. and D.J. Hagedorn, 1954, 1956
    - Osborn, H.T., 1937
  - V. subterranean clover mosaic
    - Aitken, Y. and B.J. Grieve, 1943
  - V. tobacco ring spot
    - Rich, Saul, 1940
  - V. Wisconsin pea streak
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - Skotland, C.B., 1953
- T. incarnatum*, L.
- V. alsike clover mosaic
    - Zaumeier, W.J., 1940
  - V. aster yellows
    - Raymer, W.B., 1956
  - V. bean yellow mosaic
    - Baggett, James R., 1957
    - Conover, Robert A., 1948
    - Diachun, Stephen and Lawrence Henson, 1956
    - Grogan, Raymond G. and J.C. Walker, 1948
    - Hagedorn, D.J., 1948, 1952
    - Hagedorn, D.J. and E.W. Hanson, 1953, 1957
    - Hagedorn, D.J. and J.C. Walker, 1950, 1954
    - Hanson, E.W. and D.J. Hagedorn, 1954, 1956
    - Pierce, W.H., 1934
    - Thomas, H. Rex and W.J. Zaumeier, 1953
    - Zaumeier, W.J., 1940
  - V. beet curly top
    - Giddings, N.J., 1944
    - Severin, Henry H.P. and Charles F. Henderson, 1928
  - V. beet mosaic
    - Bennett, C.W., 1949
  - V. broad bean mottle
    - Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
  - V. clover big vein
    - Black, L.M., 1945, 1953
    - Black, L.M. and M.K. Brakke, 1952
    - Maramorosch, Karl, 1950
  - V. clover club leaf
    - Black, L.M., 1948, 1949
  - V. clover disease, European leafhopper-borne \*
    - Maramorosch, Karl, 1953, 1954
  - V. clover enation \*
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. clover witches' broom \*
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. cucumber mosaic
    - Brierley, Philipand Floyd F. Smith, 1944
    - Doolittle, S.P. and W.J. Zaumeier, 1952, 1953
    - Hagedorn, D.J., 1950, 1952
    - Hagedorn, D.J. and J.C. Walker, 1954
    - Price, W.C., 1940
- T. incarnatum*, L. (cont.)
- V. filaree red leaf
    - Anderson, Chris W., 1952
  - V. lucerne dwarf
    - Freitag, J.H., 1951
  - V. lucerne mosaic
    - Black, L.M. and W.C. Price, 1940
    - Hagedorn, D.J. and E.W. Hanson, 1953, 1957
    - Hanson, E.W. and D.J. Hagedorn, 1954, 1956
    - Kreitlow, K.W. and W.C. Price, 1949
    - Pierce, W.H., 1934
    - Thomas, H. Rex, 1951
    - Zaumeier, W.J., 1938, 1953
  - V. pea enation mosaic
    - Chaudhuri, R.P., 1950
    - Hagedorn, D.J., 1952
    - Hagedorn, D.J. and J.C. Walker, 1954
    - McEwen, F.L. and W.T. Schroeder, 1956
    - Osborn, H.T., 1938
    - Simons, John N., 1954
    - Stubbs, M.W., 1937
  - V. pea mosaic
    - Chaudhuri, R.P., 1950
    - Hagedorn, D.J., 1948
    - Hagedorn, D.J. and J.C. Walker, 1954
    - Murphy, D.M. and W.H. Pierce, 1937
    - Osborn, H.T., 1935, 1937
    - Stubbs, M.W., 1936, 1937
  - V. pea mottle
    - Johnson, Folke, 1942
  - V. pea streak
    - Hagedorn, D., 1948
    - Zaumeier, W.J., 1938
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. potato yellow dwarf
    - Black, L.M., 1938, 1943, 1953
    - Hougas, R.W., 1951
  - V. red clover mosaic \*
    - Dickson, B.T., 1922
  - V. red clover vein mosaic
    - Hagedorn, D.J., 1952
    - Hagedorn, D.J. and E.W. Hanson, 1951, 1953, 1957
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - Hanson, E.W. and D.J. Hagedorn, 1954, 1956
    - Osborn, H.T., 1937
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. subterranean clover mosaic
    - Aitken, Y. and B.J. Grieve, 1943
  - V. tobacco broad ring spot
    - Johnson, James and Robert W. Fulton, 1942
  - V. tobacco necrosis
    - Price, W.C., 1940
  - V. tobacco ring spot
    - Cheo, Pen Ching and W.J. Zaumeier, 1952
    - Pierce, W.H., 1934
    - Stubbs, M.W., 1937
  - V. tobacco streak
    - Fulton, Robert W., 1948
    - Thomas, H. Rex and W.J. Zaumeier, 1950
  - V. Wisconsin pea streak
    - Hagedorn, D.J., 1952
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
- T. minus*, Relhan
- V. subterranean clover mosaic
    - Aitken, Y. and B.J. Grieve, 1943
- T. pratense*, L.
- V. alsike clover mosaic
    - Hanson, E.W. and D.J. Hagedorn, 1952
  - V. aster yellows
    - Raymer, W.B., 1956
  - V. bean yellow mosaic
    - Diachun, Stephen and Lawrence Henson, 1953, 1956, 1957
    - Elliot, J.A., 1921
    - Hagedorn, D.J., 1948, 1952
    - Hagedorn, D.J. and E.W. Hanson, 1953, 1957
    - Hagedorn, D.J. and J.C. Walker, 1950, 1954
    - Hanson, E.W. and D.J. Hagedorn, 1952, 1954, 1956
    - McWhorter, Frank P., 1949
    - Oshima, Nagayoshi and M.F. Kernkamp, 1957

- Trifolium pratense, L.  
   V. bean yellow mosaic  
     Pierce, W.H., 1935, 1937  
     Zaumeyer, W.J., 1940  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. beet curly top  
     Severin, Henry H.P. and Charles F. Henderson,  
     1928  
   V. broad bean mottle  
     Bawden, F.C., R.P. Chaudhuri and B. Kassanis,  
     1951  
     Yu, T.F., 1939  
   V. clover big vein  
     Black, L.M., 1945  
   V. clover witches' broom \*  
     Frazier, N.W. and A.F. Posnette, 1957  
   V. cucumber mosaic  
     Hagedorn, D.J., 1950, 1952  
     Hagedorn, D.J. and J.C. Walker, 1954  
   V. datura rugose leaf curl  
     Grylls, N.E., 1955  
   V. (legume) little leaf disease \*  
     Hutton, E.M. and N.E. Grylls, 1956  
   V. lucerne dwarf  
     Freitag, J.H., 1951  
   V. lucerne mosaic  
     Berkeley, G.H., 1947  
     Black, L.M. and W.C. Price, 1940  
     Hagedorn, D.J. and E.W. Hanson, 1953, 1957  
     Hanson, E.W. and D.J. Hagedorn, 1952, 1954,  
     1956  
     Johnson, E.M., 1946  
     Kreitlow, K.W. and W.C. Price, 1949  
     Pierce, W.H., 1934, 1937  
     Thomas, H. Rex, 1951  
     Zaumeyer, W.J., 1938  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. lucerne witches' broom  
     Klostermeyer, E.C. and J.D. Menzies, 1951  
     Menzies, J.D., 1946  
   V. pea enation mosaic  
     Hagedorn, D.J., 1952  
   V. pea mosaic  
     Doolittle, S.P. and F.R. Jones, 1925  
     Hagedorn, D.J., 1948  
     Hanson, E.W. and D.J. Hagedorn, 1952  
     Murphy, D.M. and W.H. Pierce, 1937  
     Osborn, H.T., 1937  
     Oshima, Nagayoshi and M.F. Kernkamp, 1957  
     Pierce, W.H., 1935, 1937  
   V. pea mottle  
     Johnson, Folke, 1942  
     Johnson, F. and L.K. Jones, 1936, 1937  
   V. pea streak  
     Hagedorn, D.J., 1948  
     Oshima, Nagayoshi and M.F. Kernkamp, 1957  
     Zaumeyer, W.J., 1938  
   V. pea wilt  
     Johnson, Folke, 1942  
   V. pea yellow mosaic \*  
     Ainsworth, G.C., 1940  
   V. potato yellow dwarf  
     Black, L.M., 1936, 1937  
     Hansing, E.D., 1942  
   V. red clover mosaic \*  
     Dickson, B.T., 1922  
     Dickson, B.T. and G.P. McRostie, 1922  
     Elliott, J.A., 1921  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. red clover vein mosaic  
     Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
     Hagedorn, D.J., 1952  
     Hagedorn, D.J. and E.W. Hanson, 1951, 1953,  
     1957  
     Hagedorn, D.J. and J.C. Walker, 1949, 1954  
     Hanson, E.W. and D.J. Hagedorn, 1952, 1954,  
     1956  
     Osborn, H.T., 1937, 1938  
   V. strawberry green petal  
     Frazier, N.W. and A.F. Posnette, 1957  
   V. subterranean clover mosaic  
     Aitken, Y. and B.J. Grieve, 1943  
   V. sweet pea mosaic \*  
     Doolittle, S.P. and F.R. Jones, 1925  
   T. pratense, L. (cont.)  
     V. tobacco necrosis  
       Fulton, Robert W., 1950  
     V. tobacco ring spot  
       Benedict, W.G., 1955  
       Cheo, Pen Ching and W.J. Zaumeyer, 1952  
       Pound, Glenn S., 1949  
     V. tobacco streak  
       Fulton, Robert W., 1948  
       Thomas, H. Rex and W.J. Zaumeyer, 1950  
     V. Wisconsin pea streak  
       Hagedorn, D.J., 1952  
       Hagedorn, D.J. and J.C. Walker, 1949, 1954  
       Hanson, E.W. and D.J. Hagedorn, 1952  
       Skotland, C.B., 1953  
       Skotland, C.B. and D.J. Hagedorn, 1954  
   T. pratense var. perenne, Host  
     V. beet curly top  
       Severin, Henry H.P. and Charles F. Henderson,  
       1928  
   T. procumbens, L.  
     V. pea mosaic  
       Murphy, D.M. and W.H. Pierce, 1937  
   T. reflexum, L.  
     V. pea mosaic  
       Murphy, D.M. and W.H. Pierce, 1937  
   T. repens, L.  
     V. aster yellows  
       Raymer, W.B., 1956  
       Raymer, W.B. and Clark R. Amen, 1954  
       Webb, R.E. and E.S. Schultz, 1955  
     V. bean yellow mosaic  
       Ainsworth, G.C., 1940  
       Houston, Byron R. and John W. Oswald, 1953  
       Kreitlow, K.W., O.J. Hunt and H.L. Wilkins,  
       1957  
     V. beet curly top  
       Giddings, N.J., 1944  
       Severin, Henry H.P. and Charles F. Henderson,  
       1928  
     V. broad bean mottle  
       Yu, T.F., 1939  
     V. clover witches' broom \*  
       Frazier, N.W. and A.F. Posnette, 1957  
     V. cucumber mosaic  
       Hagedorn, D.J., 1950  
       Hagedorn, D.J. and J.C. Walker, 1954  
     V. datura rugose leaf curl  
       Grylls, N.E., 1955  
     V. (legume) little leaf disease \*  
       Hutton, E.M. and N.E. Grylls, 1956  
     V. lucerne dwarf  
       Freitag, J.H., 1951  
     V. lucerne mosaic  
       Black, L.M. and W.C. Price, 1940  
       Houston, Byron R. and John W. Oswald, 1953  
       Johnson, E.M., 1946  
       Kreitlow, K.W., O.J. Hunt and H.L. Wilkins,  
       1957  
       Kreitlow, K.W. and W.C. Price, 1949  
       Pierce, W.H., 1934  
       Roberts, D.A., 1956  
       Snyder, William C. and Saul Rich, 1942  
       Zaumeyer, W.J., 1938, 1953  
     V. lucerne witches' broom  
       Klostermeyer, E.C. and J.D. Menzies, 1951  
       Menzies, J.D., 1946  
     V. pea enation mosaic  
       McEwen, F.L. and W.T. Schroeder, 1956  
     V. pea mottle  
       Johnson, Folke, 1942  
       Johnson, F. and L.K. Jones, 1936, 1937  
       Zaumeyer, W.J. and B.L. Wade, 1935  
     V. pea streak  
       Zaumeyer, W.J., 1938  
     V. pea wilt  
       Johnson, Folke, 1942  
     V. potato yellow dwarf  
       Black, L.M., 1937  
       Hansing, E.D., 1942  
     V. prunus A \*  
       Fulton, Robert W., 1957  
     V. prunus B \*  
       Fulton, Robert W., 1957

- Trifolium repens, L. (cont.)  
   V. red clover mosaic \*  
     Dickson, B. T., 1922  
   V. red clover vein mosaic  
     Hagedorn, D. J. and E. W. Hanson, 1951  
     Hagedorn, D. J. and J. C. Walker, 1954  
     Osborn, H. T., 1937  
     Roberts, D. A., 1957  
   V. strawberry green petal  
     Frazier, N. W. and A. F. Posnette, 1957  
   V. tobacco necrosis  
     Fulton, Robert W., 1950  
   V. tobacco ring spot  
     (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
   V. tobacco streak  
     Fulton, Robert W., 1948  
   V. tobacco yellow dwarf  
     Helson, G. A. H., 1950  
   V. Wisconsin pea streak  
     Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 T. repens var. giganteum \*  
   V. lucerne mosaic  
     Kreitlow, K. W. and W. C. Price, 1948  
 T. repens var. latum, McCarthy \*  
   V. lucerne dwarf  
     Freitag, J. H., 1951  
   V. lucerne mosaic  
     Houston, Byron R. and John W. Oswald, 1951  
   V. red clover vein mosaic  
     Graves, Clinton H., Jr. and D. J. Hagedorn, 1956  
 T. repens f. giganteum, Lagr. -Foss. \*  
   V. bean yellow mosaic  
     Thomas, H. Rex and W. J. Zaumeyer, 1953  
   V. lucerne mosaic  
     Thomas, H. Rex, 1951  
 T. resupinatum, L.  
   V. lucerne mosaic  
     Kreitlow, K. W. and W. C. Price, 1949  
   V. pea enation mosaic  
     Hagedorn, D. J., 1957  
 T. spp.  
   V. lucerne mosaic  
     Kreitlow, K. W. and W. C. Price, 1948  
   V. potato yellow dwarf  
     Black, L. M., 1938  
   V. raspberry yellow dwarf \*  
     Harrison, B. D., 1958  
 T. striatum, L.  
   V. subterranean clover mosaic  
     Aitken, Y. and B. J. Grieve, 1943  
 T. suaveolens, Willd.  
   V. pea mosaic  
     Murphy, D. M. and W. H. Pierce, 1937  
 T. subterraneum, L.  
   V. bean yellow mosaic  
     Hutton, E. M. and J. W. Peak, 1954  
     McWhorter, Frank P. and John R. Hardison, 1949  
   V. broad bean mottle  
     Bawden, F. C., R. P. Chaudhuri and B. Kassanis, 1951  
   V. gladiolus \*  
     Snow, Gordon F., 1955  
   V. kaimi clover disease \*  
     Murakishi, Harry H., 1952  
   V. (legume) little leaf disease \*  
     Hutton, E. M. and N. E. Grylls, 1956  
   V. lucerne mosaic  
     Kreitlow, K. W. and W. C. Price, 1949  
   V. lucerne witches' broom  
     Klostermeyer, E. C. and J. D. Menzies, 1951  
   V. pea enation mosaic  
     Hagedorn, D. J., 1957  
   V. pea mosaic  
     Chaudhuri, R. P., 1950  
   V. subterranean clover, aphid-transmitted \*  
     Grylls, N. E. and F. C. Butler, 1956  
 T. foenum-graecum, L. (cont.)  
   V. bean yellow mosaic  
     Hagedorn, D. J., 1948, 1952  
     Hagedorn, D. J. and J. C. Walker, 1950, 1954  
   V. cucumber mosaic  
     Hagedorn, D. J., 1952  
   V. pea enation mosaic  
     Hagedorn, D. J., 1952  
   V. pea mosaic  
     Hagedorn, D. J., 1948  
   V. red clover vein mosaic  
     Hagedorn, D. J., 1952  
     Hagedorn, D. J. and J. C. Walker, 1949, 1954  
   V. subterranean clover mosaic  
     Aitken, Y. and B. J. Grieve, 1943  
   V. tobacco ring spot  
     Grogan, R. G. and W. C. Schnathorst, 1955  
   V. Wisconsin pea streak  
     Hagedorn, D. J., 1952  
     Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 T. ornithopodioides, DC.  
   V. subterranean clover mosaic  
     Aitken, Y. and B. J. Grieve, 1943  
 T. spp.  
   V. tobacco streak  
     Fulton, Robert W., 1948  
 TRIPSACUM L. 1759 (Gramineae)  
 T. laxum, Nash  
   V. sugarcane mosaic  
     (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 TRITICUM L. 1735 (Gramineae)  
 T. aegilopoides, (Link) Bal. \*  
   V. wheat streak mosaic  
     McKinney, H. H. and W. J. Sando, 1951  
 T. aestivum, L.  
   V. barley stripe mosaic  
     Fitzgerald, Paul J., Harland Stevens and R. G. Timian, 1957  
     Lal, S. B. and W. H. Sill, Jr., 1957  
     McKinney, H. H., 1951, 1953, 1956  
     McNeal, F. H. and M. M. Afanasiev, 1955, 1956  
     Sill, W. H., Jr. and E. D. Hansing, 1955  
   V. barley yellow dwarf  
     Allen, Thomas C., Jr., 1957  
     Allen, Thomas C., Jr. and Byron R. Houston, 1956  
     Bruehl, G. W. and H. Toko, 1955, 1957  
     Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
     Takeshita, R. M., 1956  
     Toko, H. V. and G. W. Bruehl, 1957  
   V. beet ring spot \*  
     Harrison, B. D., 1957  
   V. brome mosaic  
     Lal, S. B. and W. H. Sill, Jr., 1957  
     McKinney, H. H., 1944, 1953, 1956  
     McKinney, H. H., H. Fellows and C. O. Johnston, 1942  
   V. (cereal) California mosaic disease \*  
     Houston, Byron R. and John W. Oswald, 1952  
   V. (cereal) enanismo disease \*  
     Gibler, John W., 1957  
   V. corn new mosaic \*  
     Finley, A. M., 1954  
   V. cucumber mosaic  
     Wellman, F. L., 1934, 1935  
   V. maize streak  
     (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
   V. oat pseudo-roseette  
     (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
   V. rice dwarf  
     (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
   V. ryegrass mosaic \*  
     Bruehl, G. W., H. Toko and H. H. McKinney, 1957  
   V. soil-borne oat mosaic  
     McKinney, H. H., 1946  
   V. soil-borne wheat mosaic  
     Bever, Wayne M. and J. W. Pendleton, 1954  
     Koehler, Benjamin, W. M. Bever and O. T. Bonnett, 1952  
     McKinney, H. H., 1925, 1947, 1948

- Triticum aestivum*, L. (cont.)  
 V. soil-borne wheat mosaic  
 Moseman, J. G., H. H. McKinney and C. W. Roane, 1954  
 Roane, C. W., T. M. Starling and H. H. McKinney, 1954  
 Wadsworth, D. F. and H. C. Young, Jr., 1953  
 V. tobacco necrosis  
 Price, W. C., 1940  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 Andrews, J. E. and J. T. Slykhuis, 1956  
 Atkinson, R. E., 1949  
 Bellingham, Roscoe C., Hurley Fellows and Webster H. Sill, Jr., 1957  
 Fellows, Hurley and John W. Schmidt, 1953  
 Fellows, H., W. H. Sill, Jr. and H. H. McKinney, 1952  
 Finley, A. M., 1957  
 Lal, S. B. and W. H. Sill, Jr., 1957  
 Lal, S. B., W. H. Sill, Jr., Maria S. Del Rosario and J. M. Kainski, 1957  
 McKinney, H. H., 1949, 1956  
 McKinney, H. H. and W. J. Sando, 1951  
 Meiners, Jack P. and H. H. McKinney, 1954  
 Sill, W. H., Jr., 1952, 1953  
 Sill, W. H., Jr. and H. Fellows, 1953  
 Slykhuis, J. T., 1953, 1954, 1955  
 V. wheat striate mosaic  
 Slykhuis, John T. and Marion A. Watson, 1958  
 V. winter wheat mosaic  
 Webb, Robert W., 1927, 1928  
 T. compactum, Host  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 T. dicoccoides, Koern.  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. dicoccoides var. *strausianum*, Schulz \*  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. dicoccum, Schrank  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 McKinney, H. H., 1949  
 McKinney, H. H. and W. J. Sando, 1951  
 Slykhuis, John T., 1955,  
 V. wheat striate mosaic  
 Slykhuis, J. T., 1953  
 T. durum, Desf.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 Slykhuis, John T., 1955  
 V. wheat striate mosaic  
 Slykhuis, J. T., 1953  
 T. monococcum, L.  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. monococcum var. *flavescens*, Koern. \*  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. monococcum var. *laetissimum*, Koern. \*  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. orientale, Bieb.  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. persicum var. *stramineum*, Zhukov. \*  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. polonicum, L.  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat streak mosaic  
 McKinney, H. H., 1949  
 McKinney, H. H. and W. J. Sando, 1951  
 T. spelta, L.  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930, 1953  
 Wadsworth, D. F. and H. C. Young, Jr., 1953  
 V. wheat streak mosaic  
 McKinney, H. H., 1949  
 McKinney, H. H. and W. J. Sando, 1951  
 T. sphaerococcum, Perciv.  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 T. timopheevi, Zhuk.  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 McKinney, H. H. and W. J. Sando, 1951  
 Slykhuis, John T., 1955  
 T. turgidum, L.  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat streak mosaic  
 McKinney, H. H., 1949  
 McKinney, H. H. and W. J. Sando, 1951  
 T. vulgare, Vill.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. soil-borne wheat mosaic  
 McKinney, H. H., 1930  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
 V. wheat striate mosaic  
 Slykhuis, J. T., 1952, 1953  
 TRITONIA Ker-Gawl. 1802 (Iridaceae)  
 T. crocata, Ker-Gawl.  
 V. babiana mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. ixia mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. sparaxis mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. streptanthera mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tigridia mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. watsonia mosaic \*  
 Smith, Floyd F. and Philip Brierley, 1944  
 TROPAEOLUM L. 1737 (Tropeaeolaceae)  
 T. majus, L.  
 V. aster yellows  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
 V. beet curly top  
 Severin, Henry H. P. and Julius H. Freitag, 1934  
 V. cabbage black ring spot  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. cucumber mosaic  
 Govier, D. A., 1957  
 Wellman, F. L., 1935  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Anderson, C. W., 1954  
 Price, W. C., 1940  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. tomato black ring  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. tomato spotted wilt  
 Black, L. M., M. K. Brakke and A. E. Vatter, 1952  
 Gardner, M. W. and O. C. Whipple, 1934

- Tropaeolum majus*, L. (cont.)  
 V. tomato spotted wilt  
 Milbrath, J.A., 1939  
 Whipple, O.C., 1936  
 V. *tropaeolum* mosaic  
 Jensen, D.D., 1950  
 Silberschmidt, Karl, 1953  
 V. *tropaeolum* ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- T. *peregrinum*, L.  
 V. beet curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 V. tobacco ring spot  
 Price, W.C., 1940
- TULIPA L. 1735 (Liliaceae)  
 T. *clusiana*, DC.  
 V. tulip breaking  
 Cayley, Dorothy M., 1932
- T. *eichleri*, Regel  
 V. tulip breaking  
 Cayley, Dorothy M., 1932
- T. *gesneriana*, L.  
 V. cucumber mosaic  
 Ainsworth, G.C., 1938  
 Brierley, Philip, 1941  
 Brierley, Philip and S.P. Doolittle, 1940  
 Brierley, Philip and Floyd F. Smith, 1944  
 Porter, Clark A., 1954  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. lily symptomless  
 Brierley, Philip, 1940, 1941  
 V. tobacco necrosis  
 Fulton, Robert W., 1950  
 Kassanis, B., 1949, 1954  
 V. tulip breaking  
 Brierley, Philip, 1939, 1941  
 Brierley, Philip and S.P. Doolittle, 1940  
 Brierley, Philip and M.B. McKay, 1938  
 Brierley, Philip and Floyd F. Smith, 1944  
 Cayley, D.M., 1928, 1932  
 Hughes, A.W. McKenny, 1930, 1931, 1934  
 McWhorter, F.P., 1935, 1938
- T. *gesneriana* var. *spatulata*, Hort.  
 V. tulip breaking  
 Cayley, Dorothy M., 1932
- T. *greigii*, Regel  
 V. tulip breaking  
 Cayley, Dorothy M., 1932
- T. *linifolia*, Regel  
 V. tulip breaking  
 Cayley, Dorothy M., 1932
- T. spp.  
 V. tobacco mosaic  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. white streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- TUNICA Hall. 1742 (Caryophyllaceae)  
 T. *saxifraga*, Scop.  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957
- TUSSILAGO ((Tourn.)) L. 1735 (Compositae)  
 T. *farfara*, L.  
 V. beet ring spot \*  
 Harrison, B.D., 1957
- ULMUS ((Tourn.)) L. 1735 (Ulmaceae)  
 U. *americana*, L.  
 V. carnation ring spot  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. elm mosaic  
 Bretz, T.W., 1950  
 Callahan, Kemper L., 1957  
 Moore, J. Duain and E.H. Varney, 1954  
 Swingle, R.U., P.E. Tilford and Charles F. Irish, 1941, 1943  
 Varney, E.H. and J. Duain Moore, 1952  
 V. elm phloem necrosis  
 McLean, D.M., 1944  
 Swingle, Roger U., 1938, 1940  
 U. *americana*, L. (cont.)  
 V. elm phloem necrosis  
 Swingle, Roger U., B.S. Meyer and Curtis May, 1945  
 V. elm zonate canker  
 Swingle, Roger U. and T.W. Bretz, 1950  
 V. tobacco ring spot  
 Wilkinson, R.E., 1952  
 V. tomato ring spot  
 Varney, E.H. and J. Duain Moore, 1952  
 U. *fulva*, Michx. x U. *pumila*, L.  
 V. elm phloem necrosis  
 Swingle, Roger U., B.S. Meyer and Curtis May, 1945
- URENA Dill. ex L. 1735 (Malvaceae)  
 U. *lobata*, L.  
 V. cotton leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- UROCHLOA Beauv. 1812 (Gramineae)  
 U. *panicoides*, Beauv.  
 V. maize streak  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- URTICA ((Tourn.)) L. 1735 (Urticaceae)  
 U. *californica*, Greene  
 V. aster yellows  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
 U. *dioica*, L.  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 U. *gracilis*, Ait., var. *holosericea*, Jepson  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 U. *urens*, L.  
 V. beet curly top  
 Carsner, E., 1919  
 Severin, Henry H.P., 1934  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. *datura* rugose leaf curl  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- VACCINIUM L. 1735 (Ericaceae)  
 V. *angustifolium*, Ait.  
 V. *vaccinium* mosaic \*  
 Varney, E.H., 1957  
 V. *vaccinium* ring spot  
 Hilborn, M.T. and Reiner Bonde, 1956  
 V. *vaccinium* shoestring \*  
 Varney, E.H., 1957  
 V. *vaccinium* stunt  
 Demaree, J.B., 1946  
 V. *atroccoccum*, Heller  
 V. *vaccinium* stunt  
 Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955  
 V. *australe*, Small  
 V. *vaccinium* stunt  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. *corymbosum*, L.  
 V. *vaccinium* ring spot  
 Hutchinson, M.T. and E.H. Varney, 1954  
 V. *vaccinium* stunt  
 Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955  
 V. *macrocarpon*, Ait. (*Oxycoccus macrocarpon*, (Ait.) Pers.)  
 Bergman, H.F. and W.E. Truran, 1933  
 Kunkel, L.O., 1943, 1945  
 Stevens, Neil E., 1944  
 Wilcox, R.B., 1951  
 Wilcox, R.B. and C.S. Beckwith, 1933  
 V. *stamineum*, L.  
 V. *vaccinium* stunt  
 Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955  
 V. *vaccillans*, Torr.  
 V. *vaccinium* stunt  
 Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955

- VALERIANA Tourn. ex L. 1735 (Valerianaceae)  
*V. officinalis*, L.  
*V. cucumber mosaic*  
 Faan, Hwei Chung and James Johnson, 1951
- VALERIANELLA Tourn. ex Hall. 1742 (Valerianaceae)  
*V. olitoria*, (L.) Poll  
*V. beet curly top*  
 Severin, Henry H.P., 1929
- VANDA Jones 1795 (Orchidaceae)  
*V. boschii* \*  
*V. orchid (vanda) mosaic*  
 Murakishi, Harry H., 1952  
*V. cooperii* \*  
*V. orchid (vanda) mosaic*  
 Murahishi, Harry H., 1952  
*V. spp.*  
*V. orchid (vanda) mosaic*  
 Murakishi, Harry H., 1952  
 Murakishi, H. and M. Ishii, 1954
- VENIDIUM Less. 1831 (Compositae)  
*V. fastuosum*, Stapf  
*V. chrysanthemum stunt*  
 Brierley, Philip, 1953  
*V. clover big vein*  
 Black, L.M., 1945  
*V. tobacco streak*  
 Fulton, Robert W., 1948
- VERBASCUM Tourn. ex L. 1737 (Scrophulariaceae)  
*V. phoeniceum*, L.  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot no. 2*  
 Price, W.C., 1940  
*V. thapsus*, L.  
*V. prunus B* \*  
 Fulton, Robert W., 1957  
*V. prunus G* \*  
 Fulton, Robert W., 1957  
*V. tobacco mosaic*  
 Grant, T.J., 1934  
*V. tobacco streak*  
 Fulton, Robert W., 1948
- VERBENA L. 1737 (Verbenaceae)  
*V. canadensis*, (L.) Britton  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. hybrida*, Voss  
*V. anemone mosaic* \*  
 Hollings, M., 1957  
*V. beet mosaic*  
 Pound, Glenn S., 1947  
*V. cabbage black ring spot*  
 Hamlyn, Brenda M.G., 1953  
 Hollings, M., 1957  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
*V. clover big vein*  
 Black, L.M., 1945  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tomato spotted wilt*  
 Gardner, M.W., C.M. Tompkins and O.C.  
 Whipple, 1935  
*V. turnip mosaic*  
 Tompkins, C.M., 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945
- V. urticifolia*, L.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938  
*V. venosa*, Gill. & Hook.  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot no. 2*  
 Price, W.C., 1940
- VERBESINA L. 1735 (Compositae)  
*V. alternifolia*, Britton ex Kearney  
*V. tobacco ring spot*  
 Fenne, S.B., 1931  
 Henderson, R.G. and S.A. Wingard, 1931  
*V. encelioides*, (Cav.) Benth. & Hook.  
*V. chrysanthemum stunt*  
 Brierley, Philip, 1953  
*V. cucumber mosaic*  
 Brierley, Philip, 1951  
*V. dahlia mosaic*  
 Brierley, Philip, 1951  
 Brierley, Philip and Floyd F. Smith, 1950  
*V. tobacco ring spot no. 2*  
 Brierley, Philip, 1954  
*V. tomato aspermy*  
 Brierley, Philip, Floyd F. Smith and S.P.  
 Doolittle, 1955
- VERNONIA Schreb. 1791 (Compositae)  
*V. cinerea*, Less.  
*V. tobacco leaf curl*  
 Pruthi, Hem Singh and C.K. Samuel, 1941
- VERONICA ((Tourn.)) L. 1735 (Scrophulariaceae)  
*V. agrestis*, L.  
*V. potato X*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. americana*, (Raf.) Schwein.  
*V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
*V. buxbaumii*, Ten.  
*V. aster yellows*  
 Frazier, Norman W. and Henry H.P. Severin, 1945  
*V. longifolia*, L.  
*V. cucumber mosaic*  
 Price, W.C., 1940  
*V. lucerne mosaic*  
 Price, W.C., 1940  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946  
*V. tobacco necrosis*  
 Price, W.C., 1940  
*V. tobacco ring spot*  
 Price, W.C., 1940  
*V. tobacco ring spot no. 2*  
 Price, W.C., 1940  
*V. officinalis*, L.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946  
*V. peregrina*, L.  
*V. aster yellows*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938, 1946  
*V. vaccinium false blossom*  
 Kunkel, L.O., 1945  
*V. persica*, Poir.  
*V. beet ring spot* \*  
 Harrison, B.D., 1957  
*V. raspberry Scottish leaf curl*  
 Harrison, B.D., 1958  
*V. spp.*  
*V. lucerne dwarf*  
 Freitag, J.H., 1951
- VICIA Tourn. ex L. 1735 (Leguminosae)  
*V. americana*, Muhl.  
*V. bean yellow mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. lucerne mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. red clover mosaic* \*  
 Zaumeyer, W.J. and B.L. Wade, 1935

- Vicia atropurpurea*, Desf.  
 V. bean yellow mosaic  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. red clover vein mosaic  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 V. Wisconsin pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 V. dasycarpa, Ten.  
 V. pea enation mosaic  
 Hagedorn, D.J., 1957  
 V. faba, L.  
 V. alsike clover mosaic  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1936  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. apple mosaic  
 Yarwood, C.E., 1955  
 Yarwood, C.E. and H.E. Thomas, 1954  
 V. bean common mosaic  
 Nelson, Ray, 1932  
 Reddick, D. and V.B. Stewart, 1919  
 V. bean yellow mosaic  
 Afanasiev, M.M. and H.E. Morris, 1952  
 Ainsworth, G.C., 1940  
 Baggett, James R., 1957  
 Brierley, Philip and Floyd F. Smith, 1948  
 Conover, Robert A., 1948  
 Elliott, J.A., 1921  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Houston, Byron R. and John W. Oswald, 1953  
 McWhorter, Frank P., 1949  
 McWhorter, Frank P. and John R. Hardison, 1949  
 Osborn, H.T., 1938  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1940, 1952  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935, 1936  
 V. beet curly top  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
 V. broad bean mottle  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
 Yu, T.F., 1939  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 V. crotalaria mosaic  
 Johnson, H.W. and C.L. Lefebvre, 1938  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 Costa, A.S., 1944  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Hagedorn, D.J., 1950  
 Harter, L.L., 1938  
 Milbrath, J.A. and Roy A. Young, 1956  
 Porter, Clark A., 1954  
 Wellman, F.L., 1934, 1935  
 Whipple, O.C. and J.C. Walker, 1941  
 V. gladiolus \*  
 Snow, Gordon F., 1955  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Black, L.M. and W.C. Price, 1940  
 Houston, Byron R. and John W. Oswald, 1953  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Snyder, William C. and Saul Rich, 1942  
 Swenson, K.G., 1952  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. pea die back \*  
 Zaumeyer, W.J., 1939  
 V. pea enation mosaic  
 Ainsworth, G.C., 1940  
 V. faba, L. (cont.)  
 V. pea enation mosaic  
 McEwen, F.L. and W.T. Schroeder, 1956  
 Osborn, H.T., 1934, 1935, 1938  
 Stubbs, M.W., 1936  
 V. pea leaf roll  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. pea mosaic  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J., 1948  
 Johnson, F. and L.K. Jones, 1936  
 Osborn, H.T., 1937  
 Stubbs, M.W., 1936  
 V. pea mottle  
 Johnson, Folke, 1942  
 Johnson, F. and L.K. Jones, 1936, 1937  
 V. pea stem streak \*  
 Zaumeyer, W.J., 1939  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. pea yellow mosaic \*  
 Ainsworth, G.C., 1940  
 V. potato yellow dwarf  
 Black, L.M., 1938  
 Hougas, R.W., 1951  
 V. red clover mosaic \*  
 Elliott, J.A., 1921  
 Zaumeyer, W.J. and B.L. Wade, 1935, 1936  
 V. red clover vein mosaic  
 Hagedorn, D.J. and E.W. Hanson, 1951  
 Osborn, H.T., 1937  
 Roberts, D.A., 1957  
 V. rhubarb ring spot \*  
 Vaughan, Edward K. and John W. Yale, Jr., 1953  
 Yale, John W., Jr. and Edward K. Vaughan, 1954  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Pound, Glenn S., 1949  
 V. tobacco streak  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tomato spotted wilt  
 Gardner, M.W. and O.C. Whipple, 1934  
 Sakimura, K., 1940  
 Yu, T.F., 1947  
 V. tropaeolum ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 V. faba var. major \*  
 V. bean yellow mosaic  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. subterranean clover mosaic  
 Aitken, Y. and B.J. Grieve, 1943  
 V. Wisconsin pea streak  
 Hagedorn, D.J. and J.C. Walker, 1954  
 V. faba var. minor \*  
 V. bean common mosaic  
 Pierce, W.H., 1934  
 V. bean yellow mosaic  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Pierce, W.H., 1934, 1935  
 V. cucumber mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 V. lucerne mosaic  
 Pierce, W.H., 1934  
 Zaumeyer, W.J., 1938  
 V. pea enation mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Pierce, W.H., 1935  
 Stubbs, M.W., 1937  
 V. pea mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Murphy, D.M. and W.H. Pierce, 1937  
 Pierce, W.H., 1935  
 Stubbs, M.W., 1937  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. pea wilt  
 Pierce, W.H., 1935



- Vicia faba* var. *minor* \* (cont.)
- V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1954
  - V. subterranean clover mosaic  
Aitkey, Y. and B.J. Grieve, 1943
  - V. tobacco ring spot  
Pierce, W.H., 1934  
Stubbs, M.W., 1937
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1954  
Skotland, C.B. and D.J. Hagedorn, 1954
  - V. *grandiflora*, Scop.
    - V. bean yellow mosaic  
Hagedorn, D.J. and J.C. Walker, 1950, 1954
    - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. *lathyroides*, L.
    - V. bean common mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - V. bean yellow mosaic  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. *monantha*, Retz.
    - V. bean yellow mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954
    - V. lucerne dwarf  
Freitag, J.H., 1951
    - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. *pannonica*, Crantz
    - V. pea enation mosaic  
Hagedorn, D.J., 1957
  - V. *sativa*, L.
    - V. bean common mosaic  
Pierce, W.H., 1934
    - V. bean yellow mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Pierce, W.H., 1934
    - V. beet curly top  
Severin, Henry H.P. and Charles F. Henderson, 1928
    - V. broad bean mottle  
Yu, T.F., 1939
    - V. lucerne mosaic  
Pierce, W.H., 1934  
Zaumeyer, W.J., 1938
    - V. pea enation mosaic  
McEwen, F.L. and W.T. Schroeder, 1956
    - V. pea mosaic  
Chaudhuri, R.P., 1950  
Murphy, D.M. and W.H. Pierce, 1937
    - V. pea mottle  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
    - V. pea streak  
Zaumeyer, W.J., 1938
    - V. pea wilt  
Johnson, Folke, 1942
    - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - V. tobacco ring spot  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
LeBeau, F.J., 1947  
Pierce, W.H., 1934
    - V. tobacco streak  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. *tetrasperma*, Moench
    - V. broad bean mottle  
Yu, T.F., 1939
  - V. *villosa*, Roth
    - V. bean yellow mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Hungerford, C.W. and Irvin G. Hillyer, 1954
    - V. beet curly top  
Severin, Henry H.P. and Charles F. Henderson, 1928
    - V. broad bean mottle  
Yu, T.F., 1939
  - V. *villosa*, Roth
    - V. lucerne mosaic  
Zaumeyer, W.J., 1938
    - V. pea enation mosaic  
McEwen, F.L. and W.T. Schroeder, 1956
    - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
- VIGNA Savi 1826? (Leguminosae)
- V. *cylindrica*, (L.) Skeels (*V. catjang*, Walp.)
    - V. cowpea mosaic  
Capoor, S.P. and P.M. Varma, 1956  
Vasudeva, R. Sahai, 1942
    - V. tobacco ring spot  
Cooper, W.E., 1949
  - V. *chinensis*, Endl. \*
    - V. potato Y  
Darby, J.F., R.H. Larson and J.C. Walker, 1951
  - V. *reticulata*, Hook. f.
    - V. groundnut rosette  
Evans, A.C., 1954
  - V. *sesquipedalis*, (L.) Fruwirth
    - V. bean common mosaic  
Nelson, Ray, 1932  
Snyder, W.C., 1942
    - V. bean yellow mosaic  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J. and H.H. Fisher, 1953
    - V. cowpea mosaic  
Capoor, S.P. and P.M. Varma, 1956
    - V. cucumber mosaic  
Doolittle, S.P. and W.J. Zaumeyer, 1953
    - V. lucerne mosaic  
Pierce, W.H., 1934  
Snyder, William C. and Saul Rich, 1942  
Zaumeyer, W.J., 1938
    - V. tobacco ring spot  
Cooper, W.E., 1949  
Pierce, W.H., 1934
    - V. tobacco streak  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. *sinensis*, (Torner) Savi
    - V. apple mosaic  
Yarwood, C.E., 1955  
Yarwood, C.E. and H.E. Thomas, 1954
    - V. bean common mosaic  
Snyder, W.C., 1942
    - V. bean yellow mosaic  
Osborn, H.T., 1938  
Zaumeyer, W.J. and H.H. Fisher, 1953
    - V. bean yellow stipple  
Zaumeyer, W.J. and H. Rex Thomas, 1950
    - V. beet curly top  
Severin, Henry H.P. and Charles F. Henderson, 1928
    - V. celery mosaic  
Price, W.C., 1935
    - V. cowpea mosaic  
Anderson, C.W., 1955, 1957  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W.T., 1953  
McLean, D.M., 1941  
Yu, T.F., 1946
    - V. cucumber mosaic  
Anderson, C.W., 1955, 1957  
Anderson, C.W. and M.K. Corbett, 1957  
Bhargava, K.S., 1951  
Bridgmon, G.H. and J.C. Walker, 1952  
Costa, A.S., 1944  
Diachun, Stephen, 1952  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Fulton, Joseph P., 1950  
Hagedorn, D.J., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Harter, L.L., 1938  
Hollings, M., 1955  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Milbrath, J.A. and Roy A. Young, 1956  
Nienow, Inez, 1948  
Price, W.C., 1934, 1935  
Silberschmidt, K., 1955  
Sill, Webster H., Jr., 1951  
Sill, W.H., Jr. and J.C. Walker, 1952  
Sinclair, J.B. and J.C. Walker, 1954, 1955, 1956

*Vigna sinensis*, (Torner) Savi (cont.)

- V. cucumber mosaic
  - Smith, Kenneth M., 1935
  - Whipple, O. C. and J. C. Walker, 1941
- V. elm mosaic
  - Varney, E. H. and J. Duain Moore, 1952
- V. kaimi clover disease \*
  - Murakishi, Harry H., 1952
- V. lucerne mosaic
  - Black, L. M. and W. C. Price, 1940
  - Kreitlow, K. W. and W. C. Price, 1949
  - Milbrath, J. A. and F. P. McWhorter, 1954
  - Oswald, John W., 1950
  - Snyder, William C. and Saul Rich, 1942
  - Thomas, H. Rex, 1951, 1953
  - Zaumeier, W. J., 1938, 1953
- V. pea streak
  - Kim, Woon S. and D. J. Hagedorn, 1957
- V. pea wilt
  - Johnson, Folke, 1942
- V. peach ring spot
  - Milbrath, J. A., 1953
  - Thornberry, H. H., 1957
- V. peach yellow bud mosaic
  - Karle, Harry P., 1957
  - Yarwood, C. E., 1956, 1957
  - Yarwood, C. E. and H. E. Thomas, 1954
- V. potato M \*
  - Bagnall, R. H. and R. H. Larson, 1957
  - Bagnall, R. H., R. H. Larson and J. C. Walker, 1956
- V. potato paracrinkle
  - Bagnall, R. H., R. H. Larson and J. C. Walker, 1956
- V. potato Y
  - Dykstra, T. P., 1939
  - Ross, A. Frank, 1948
- V. rose mosaic
  - Fulton, Robert W., 1952
- V. tobacco broad ring spot
  - Johnson, James and Robert W. Fulton, 1942
- V. tobacco green ring spot \*
  - Price, W. C., 1936
- V. tobacco mosaic
  - Nagaich, B. B. and H. H. Thornberry, 1957
- V. tobacco necrosis
  - Fulton, J. P., 1952
  - Fulton, Robert W., 1950, 1952
  - Price, W. C., 1938
  - Price, W. C. and Ralph W. G. Wyckoff, 1939
- V. tobacco ring spot
  - Anderson, C. W., 1954
  - Benedict, W. G., 1955
  - Berkeley, G. H., 1953
  - Bridgmon, G. H. and J. C. Walker, 1952
  - Cheo, Pen Ching and W. J. Zaumeier, 1952
  - Cooper, W. E., 1949
  - Desjardins, P. R., R. L. Latterell and J. E. Mitchell, 1954
  - Dunleavy, John M., 1957
  - Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954
  - Grogan, R. G. and W. C. Schnathorst, 1955
  - Kahn, Robert P., 1956
  - Kahn, Robert P. and Frances M. Latterell, 1955
  - LeBeau, F. J., 1947
  - Pierce, W. H., 1934
  - Pound, Glenn S., 1949
  - Price, W. C., 1936
  - Rosberg, David W., 1953
  - Shepherd, Robert J. and F. Ben Struble, 1956
  - Starr, Chester K. and W. E. Cooper, 1944
  - Steere, Russell L., 1956
  - Walters, H. J., 1952
  - Wingard, S. A., 1928
- V. tobacco ring spot no. 2
  - Hildebrand, E. M., 1942
  - Price, W. C., 1936
- V. tobacco streak
  - Thomas, H. Rex and W. J. Zaumeier, 1950
- V. tomato aspermy
  - Hollings, M., 1955
- V. tomato bushy stunt
  - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

*V. sinensis*, (Torner) Savi (cont.)

- V. tomato bushy stunt
    - Smith, Kenneth M., 1935
  - V. tomato ring spot
    - Kahn, Robert P., 1956
    - Kahn, Robert P. and Frances M. Latterell, 1955
    - Varney, E. H. and J. Duain Moore, 1952
  - V. tomato spotted wilt
    - Yu, T. F., 1947
  - V. tomato V-52-1
    - Miller, Patrick M., 1953
  - V. vigna 1 \*
    - Warid, W. A. and A. G. Plakidas, 1950, 1952
  - V. vigna 2 \*
    - Warid, W. A. and A. G. Plakidas, 1950, 1952
  - V. vigna 3 \*
    - Warid, W. A. and A. G. Plakidas, 1950, 1952
  - V. vigna 3a \*
    - Warid, W. A. and A. G. Plakidas, 1950, 1952
  - V. triloba, Walp.
    - V. groundnut rosette
      - Evans, A. C., 1954
  - V. unguiculata, Walp.
    - V. cowpea mosaic
      - Dale, W. T., 1949
    - V. cucumber mosaic
      - Adsuar, Jose and A. Cruz Miret, 1950
    - V. eggplant mosaic
      - Dale, W. T., 1954
    - V. groundnut rosette
      - Evans, A. C., 1954
  - V. vexillata, A. Rich.
    - V. cowpea mosaic
      - Dale, W. T., 1949
- VINCA L. 1735 (Apocynaceae)
- V. major, L.
    - V. lucerne dwarf
      - Freitag, J. H., 1951
  - V. minor, L.
    - V. bayberry yellows
      - Raychaudhuri, S. P., 1952
    - V. peach western X disease
      - Weathers, Lewis G. and George W. Cochran, 1950
    - V. peach X disease
      - Kunkel, L. O., 1944
      - Slack, Derald A., 1952
    - V. sweet potato mosaic
      - Elmer, O. H., 1957
    - V. turnip mosaic
      - Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. rosea, L.
    - V. asclepias yellows \*
      - Kunkel, L. O., 1950
    - V. aster yellows
      - Brierley, Philip and Floyd F. Smith, 1957
      - Fulton, J. P., 1957
      - Maramorosch, Karl, 1957
    - V. bayberry yellows
      - Raychaudhuri, S. P., 1953
    - V. beet curly top
      - Freitag, Julius H. and Henry H. P. Severin, 1936
    - V. cabbage black ring spot
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
    - V. clover big vein
      - Black, L. M., 1945
    - V. cucumber mosaic
      - Anderson, C. W. and M. K. Corbett, 1957
      - Fulton, Robert W., 1953
      - Wellman, F. L., 1935
    - V. lilac witches' broom
      - Brierley, Philip, 1955
    - V. lucerne mosaic
      - Kreitlow, K. W. and W. C. Price, 1948, 1949
      - Price, W. C., 1940
    - V. lucerne witches' broom
      - Kunkel, L. O., 1952
    - V. peach X disease
      - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
    - V. prunus A \*
      - Fulton, Robert W., 1957
    - V. prunus B \*
      - Fulton, Robert W., 1957

- Vinca rosea*, L. (cont.)  
*V. prunus* G \*  
 Fulton, Robert W., 1957  
*V. rose* mosaic  
 Fulton, Robert W., 1952  
*V. sandal* spike  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. tobacco* necrosis  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
*V. tobacco* ring spot  
 Price, W.C., 1940  
*V. tobacco* ring spot no. 2  
 Hildebrand, E.M., 1942  
 Price, W.C., 1940  
*V. tobacco* streak  
 Fulton, Robert W., 1948  
*V. tomato* big bud  
 Hill, A.V. and M. Mandryk, 1954  
*V. vaccinium* false blossom  
 Kunkel, L.O., 1945  
*V. vaccinium* stunt  
 Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955  
*V. vinca* yellows \*  
 Maramorosch, Karl, 1956  
*V. rosea* var. *alba*, Sweet  
*V. lucerne* witches' broom  
 Helms, Katie, 1957  
*V. tomato* big bud  
 Helms, Katie, 1957  
*V. rosea* var. *oculata* \*  
*V. lucerne* witches' broom  
 Helms, Katie, 1957  
*V. tomato* big bud  
 Helms, Katie, 1957
- VIOLA Tourn. ex L. 1735 (Violaceae)  
*V. cornuta*, L.  
*V. beet* curly top  
 Freitag, Julius H. and Henry H.P. Severin, 1936  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
*V. cucumber* mosaic  
 Severin, Henry H.P., 1947  
*V. cucumber* western mosaic \*  
 Severin, Henry H.P., 1947  
*V. lucerne* mosaic  
 Severin, Henry H.P., 1947  
*V. tobacco* necrosis  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
*V. tobacco* ring spot  
 Price, W.C., 1940  
*V. tobacco* ring spot no. 2  
 Price, W.C., 1940  
*V. spp.*  
*V. tomato* black ring  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*V. papilionacea*, Pursh  
*V. tobacco* ring spot  
 Wingard, S.A., 1928  
*V. tricolor*, L.  
*V. aster* yellows  
 Brierley, Philip and Floyd F. Smith, 1954  
*V. beet* curly top  
 Dana, B.F. and F.P. McWhorter, 1935  
*V. tobacco* ring spot  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 McKinney, H.H. and E.E. Clayton, 1944  
 Wingard, S.A., 1928  
*V. tricolor* var. *hortensis*, (Murr.) DC.  
*V. beet* curly top  
 Severin, Henry H.P. and Julius H. Freitag, 1934  
*V. beet* mosaic  
 Pound, Glenn S., 1947  
*V. cucumber* mosaic  
 Severin, Henry H.P., 1947  
*V. cucumber* western mosaic \*  
 Severin, Henry H.P., 1947  
*V. lucerne* mosaic  
 Severin, Henry H.P., 1947
- VITIS ((Tourn.)) L. 1735 (Vitaceae)  
*V. californica*, Benth.  
*V. lucerne* dwarf  
 Freitag, J.H., 1951  
 Severin, Henry H.P., 1949  
*V. rupestris*, Scheele  
*V. vine* infectious degeneration  
 Hewitt, Wm. B., 1956  
*V. vinifera*, L.  
*V. lucerne* dwarf  
 Crall, J.M. and L.H. Stover, 1957  
 Frazier, Norman W. and J.H. Freitag, 1946  
 Freitag, J.H., 1951  
 Freitag, J.H. and Norman W. Frazier, 1954  
 Freitag, J.H., N.W. Frazier and R.A. Flock, 1952  
 Hewitt, Wm. B., 1939  
 Hewitt, Wm. B., N.W. Frazier and Byron R. Houston, 1942  
 Hewitt, Wm. B., Byron R. Houston, Norman W. Frazier and J.H. Freitag, 1946  
 Houston, Byron R., Katherine Esau and Wm. B. Hewitt, 1946  
 Severin, Henry H.P., 1949  
 Stoner, Warren N., 1953  
*V. vine* infectious degeneration  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Hewitt, Wm. B., 1945, 1956  
*V. vine* leaf roll  
 Harmon, F.N. and J.H. Weinberger, 1956  
*V. vine* yellow mosaic  
 Hewitt, Wm. B. and Charles J. Delp, 1953  
*V. (vine)* yellow vein \*  
 Hewitt, Wm. B., 1956
- WATSONIA Mill. 1759 (Iridaceae)  
*W. marginata*, Ker-Gawl.  
*V. watsonia* mosaic \*  
 Smith, Floyd F. and Philip Brierley, 1944
- WISTARIA Nutt. 1818 (Leguminosae)  
 (WISTERIA) Nutt. 1818  
*W. floribunda*, (hort. var. *Koshigaya*) (Willd.) DC.  
*V. wisteria* mosaic \*  
 Brierley, Philip and Paul Lorentz, 1957  
*W. sinensis*, (Sims) Sweet  
*V. wisteria* mosaic \*  
 Brierley, Philip and Paul Lorentz, 1957  
*W. spp.*  
*V. wisteria* mosaic \*  
 Brierley, Philip and Paul Lorentz, 1957
- WITHANIA Pauq. 1824 (Solanaceae)  
*W. somnifera*, Dun.  
*V. vaccinium* false blossom  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- XANTHIUM ((Tourn.)) L. 1735 (Compositae)  
*X. canadense*, Mill.  
*V. lucerne* dwarf  
 Freitag, J.H., 1951  
*X. spinosum*, L.  
*V. beet* curly top  
 Severin, Henry H.P., 1934
- ZALUZIANSKYA F.W. Schmidt 1793 (Scrophulariaceae)  
*Z. villosa*, F.W. Schmidt  
*V. cucumber* mosaic  
 Price, W.C., 1940  
*V. lucerne* mosaic  
 Price, W.C., 1940  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946  
*V. tobacco* necrosis  
 Price, W.C., 1940  
*V. tobacco* ring spot  
 Price, W.C., 1940  
*V. tobacco* ring spot no. 2  
 Price, W.C., 1940

- ZANTEDESCHIA Spreng. 1826 (Araceae)
- Z. aethiopica, Spreng.  
 V. tomato spotted wilt  
 Gardner, M. W., C. M. Tompkins and O. C. Whipple, 1935  
 Tompkins, C. M. and Henry H. P. Severin, 1950  
 Whipple, O. C., 1936
- Z. albo-maculata, Baill.  
 V. tomato spotted wilt  
 Tompkins, C. M. and Henry H. P. Severin, 1950
- Z. elliptiana, Engler  
 V. tomato spotted wilt  
 Tompkins, C. M. and Henry H. P. Severin, 1950
- Z. melanoleuca, Engler  
 V. tomato spotted wilt  
 Tompkins, C. M. and Henry H. P. Severin, 1950
- Z. rehmannii, Engler  
 V. tomato spotted wilt  
 Tompkins, C. M. and Henry H. P. Severin, 1950
- ZEA L. 1737 (Gramineae)
- Z. mays, L.  
 V. barley stripe mosaic  
 McKinney, H. H., 1951  
 Sill, W. H., Jr., 1956  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Allen, Thomas C., Jr., 1957  
 V. brome mosaic  
 McKinney, H. H., 1944  
 Sill, W. H., Jr., 1956  
 V. canna mosaic  
 Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956  
 V. celery mosaic  
 Price, W. C., 1935  
 V. cucumber mosaic  
 Bhargava, K. S., 1951  
 Bridgmon, G. H., 1951  
 Bridgmon, G. H. and J. C. Walker, 1952  
 Celino, M. S. and Aureo L. Martinez, 1955, 1956  
 Celino, M. S. and G. O. Ocfemia, 1941  
 Doolittle, S. P. and W. J. Zaumeyer, 1953  
 Lawas, Orencio M. and William L. Fernandez, 1949  
 McWhorter, F. P. and H. H. Millsap, 1954  
 Price, W. C., 1935  
 Wellman, F. L., 1934, 1935  
 V. filaree red leaf  
 Anderson, Chris W., 1952  
 V. grass natal mosaic \*  
 Storey, H. H., 1929  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. maize mosaic  
 Brandes, E. W., 1920  
 Kunkel, L. O., 1927  
 V. maize streak  
 Finley, A. M., 1954  
 McKinney, H. H., 1929  
 Storey, H. H., 1925, 1928, 1932, 1937  
 Storey, H. H. and A. P. D. McClean, 1930  
 V. maize stunt  
 Hildebrand, E. M., 1949  
 Maramorosch, Karl, 1951, 1955, 1956, 1957  
 Niederhauser, John S. and Javier Cervantes, 1950  
 V. maize wallaby ear  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. oat pseudo-rosette  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos Calica, 1949  
 V. sugarcane mosaic  
 Brandes, E. W., 1920  
 Brandes, E. W. and Peter J. Klaphaak, 1923  
 Chona, B. L. and S. A. Rafay, 1950  
 Costa, A. S. and M. P. Penteado, 1951  
 Lawas, Orencio M. and William L. Fernandez, 1949  
 Storey, H. H., 1929  
 Tims, E. C., P. J. Mills and C. W. Edgerton, 1935  
 V. sugarcane streak  
 Storey, H. H. and A. P. D. McClean, 1930
- Z. mays, L. (cont.)  
 V. sunflower mosaic  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 V. tobacco necrosis  
 Fulton, J. P., 1952  
 Fulton, Robert W., 1950  
 V. tobacco ring spot  
 Bridgmon, G. H., 1951  
 Bridgmon, G. H. and J. C. Walker, 1952  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 Finley, A. M., 1957  
 McKinney, H. H., 1949  
 Meiners, Jack P. and H. H. McKinney, 1954  
 Sill, W. H., Jr., 1956  
 Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, John T., 1955  
 Z. mays var. everta, (Sturtev.) Bailey  
 V. cucumber mosaic  
 Harter, L. L., 1938  
 Z. mays var. rugosa, Bonaf. \*  
 V. cucumber mosaic  
 Fulton, Joseph P., 1950  
 Pound, Glenn S. and J. C. Walker, 1948  
 Z. mays var. saccharata, (Sturtev.) Bailey  
 V. barley stripe mosaic  
 McKinney, H. H., 1951, 1953  
 V. brome mosaic  
 McKinney, H. H., 1953  
 V. wheat streak mosaic  
 McKinney, H. H., 1949
- ZEBRINA Schnizl. 1849 (Commelinaceae)
- Z. pendula, Schnizl.  
 V. cucumber mosaic  
 Wellman, F. L., 1935
- ZINNIA L. 1759 (Compositae)
- Z. elegans, Jacq.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 George, J. A. and J. K. Richardson, 1957  
 Magie, R. O., Floyd F. Smith and Philip Brierley, 1952  
 Severin, Henry H. P., 1929, 1934  
 Severin, Henry H. P. and Julius H. Freitag, 1934, 1945  
 Smith, Floyd F. and Philip Brierley, 1953  
 V. beet curly top  
 Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
 Bennett, C. W. and A. S. Costa, 1949  
 Bennett, C. W. and Aziz Tanrisever, 1957  
 Freitag, Julius H. and Henry H. P. Severin, 1936  
 Severin, Henry H. P., 1934  
 Severin, Henry H. P. and Julius H. Freitag, 1934  
 V. beet mosaic  
 McLean, D. M., 1952  
 Pound, Glenn S., 1947  
 V. cabbage black ring spot  
 Hamlyn, Brenda M. G., 1953  
 Hollings, M., 1957  
 Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R. H. and J. C. Walker, 1940, 1941  
 V. celery mosaic  
 Price, W. C., 1935  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cotton leaf curl  
 Mathur, R. N., 1933  
 V. cowpea mosaic  
 Anderson, C. W., 1955  
 V. cucumber mosaic  
 Ainsworth, G. C., 1938  
 Anderson, C. W., 1951, 1955  
 Berkeley, G. H. and J. H. Tremaine, 1954  
 Bridgmon, G. H. and J. C. Walker, 1952  
 Brierley, Philip, 1951, 1952

- Zinnia elegans, Jacq. (cont.)
- V. cucumber mosaic
    - Burnett, G., 1934
    - Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953
    - Fulton, Joseph P., 1950
    - Fulton, Robert W., 1941
    - Harter, L.L., 1938
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - Nienow, Inez, 1948
    - Pound, Glenn S. and J.C. Walker, 1948
    - Price, W.C., 1935, 1937, 1939, 1941
    - Simons, John N., 1957
    - Sinclair, J.B. and J.C. Walker, 1956
    - Smith, Floyd F. and Philip Brierley, 1944
    - Wellman, F.L., 1934, 1935
    - Whipple, O.C. and J.C. Walker, 1941
  - V. cynarus curly dwarf
    - Leach, L.D. and J.W. Oswald, 1950
    - Morton, Donald J., 1957
  - V. dahlia mosaic
    - Brierley, Philip, 1951
    - Brierley, Philip and Floyd F. Smith, 1950
  - V. hydrangea ring spot
    - Brierley, Philip and Floyd F. Smith, 1952
  - V. lettuce mosaic
    - Grogan, R.G., J.E. Welch and Roy Bardin, 1952
  - V. lucerne mosaic
    - Berkeley, G.H., 1947
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Johnson, E.M., 1946
    - Kreitlow, K.W. and W.C. Price, 1948, 1949
    - Richardson, D.E. and T.W. Tinsley, 1956
    - Swenson, K.G., 1952
    - Thomas, H. Rex, 1951, 1953
    - Zaumeyer, W.J., 1938, 1953
  - V. orchid (odontoglossum) ring spot
    - Jensen, D.D. and A. Herbert Gold, 1952
  - V. pea streak
    - Kim, Woon S. and D.J. Hagedorn, 1957
  - V. potato Y
    - Simons, J.N., Robert A. Conover and James M. Walter, 1956
  - V. prunus \*
    - Varney, E.H. and J. Duain Moore, 1954
  - V. prunus B \*
    - Fulton, Robert W., 1957
  - V. prunus G \*
    - Fulton, Robert W., 1957
  - V. red currant ring spot
    - Klessner, P.J., 1951
  - V. rhubarb ring spot \*
    - Vaughan, Edward K. and John W. Yale, Jr., 1953
    - Yale, John W., Jr. and Edward K. Vaughan, 1954
  - V. sweet potato mosaic
    - Elmer, O.H., 1957
  - V. tobacco broad ring spot
    - Johnson, James and Robert W. Fulton, 1942
  - V. tobacco etch
    - Holmes, Francis O., 1946
    - Price, W.C., 1935
  - V. tobacco leaf curl
    - Kerling, L.C.P., 1933
    - Pruthi, Hem Singh and C.K. Samuel, 1941
  - V. tobacco mosaic
    - Grant, T.J., 1934
    - Holmes, Francis O., 1946
    - Price, W.C., 1935
  - V. tobacco necrosis
    - Price, W.C., 1940
  - V. tobacco ring spot
    - Anderson, C.W., 1954
    - Bridgmon, G.H. and J.C. Walker, 1952
    - Cheo, Pen Ching and W.J. Zaumeyer, 1952
    - Fulton, Robert W., 1941
    - Grogan, R.G. and W.C. Schnathorst, 1955
    - Pound, Glenn S., 1949
    - Price, W.C., 1935
    - Wingard, S.A., 1928
  - V. tobacco ring spot no. 2
    - Brierley, Philip, 1954
    - Hildebrand, E.M., 1942
    - Price, W.C., 1940
  - V. tobacco streak
    - Fulton, Robert W., 1948
- Z. elegans, Jacq. (cont.)
- V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
    - Hollings, M., 1955
  - V. tomato bunchy top
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - V. tomato bushy stunt
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Smith, Kenneth M., 1935
  - V. tomato spotted wilt
    - Gardner, M.W. and O.C. Whipple, 1934
    - Milbrath, J.A., 1939
    - Smith, Kenneth M., 1932
    - Yu, T.F., 1947
  - V. tropaeolum mosaic
    - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
    - Silberschmidt, Karl, 1953
  - V. turnip mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
    - Dale, W.T., 1948
    - LeBeau, Francis J. and J.C. Walker, 1945
  - Z. elegans var. dahliiflora \*
    - V. cucumber mosaic
      - Govier, D.A., 1957
  - Z. haageana, Regel
    - V. aster yellows
      - Severin, Henry H.P., 1934
    - V. beet curly top
      - Freitag, Julius H. and Henry H.P. Severin, 1936
      - Severin, Henry H.P., 1934
    - V. tobacco mosaic
      - Holmes, Francis O., 1946
- ZIZYPHUS Tourn. ex L. 1735 (Rhamnaceae)
- Z. oenoplia, Mill.
    - V. sandal spike
      - (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- ZYGADENUS Michx. 1803 (Liliaceae)
- Z. fremontii, Torr.
    - V. tulip breaking
      - Brierley, Philip and Floyd F. Smith, 1944
- ZYGOPETALUM Hook. 1827 (Orchidaceae)
- Z. spp.
    - V. orchid (cymbidium) mosaic
      - Jensen, D.D. and A.H. Gold, 1955



- ABELMOSCHUS Medic. 1787 (Malvaceae)  
*A. esculentus*, Moench  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. tobacco mosaic  
 Das, C.R. and S.P. Raychaudhuri, 1953
- ABUTILON Tourn. ex Adans. 1763 (Malvaceae)  
*A. asiaticum*, G. Don  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*A. indicum*, Sweet  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
*A. theophrasti*, Medic.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- ACALYPHA L. 1737 (Euphorbiaceae)  
*A. virginica*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- ACANTHOSPERMUM Schrank 1819 (Compositae)  
*A. hispidum*, DC.  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950
- ACHILLEA L. 1735 (Compositae)  
*A. filipendulina*, Lam.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*A. millefolium*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- ADENOROPHIUM Pohl. 1827 (Euphorbiaceae)  
*A. gossypifolium*, Pohl.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- ADIANTUM ((Tourn.)) L. 1753 (Polypodiaceae)  
*A. capillus-veneris*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- ADLUMIA Raf. 1808 (Papaveraceae)  
*A. fungosa*, Greene  
 V. tobacco etch  
 Holmes, Francis O., 1946
- AEGLOPSIS Swingle 1911 (Rutaceae)  
*A. chevalieri*, Swingle  
 V. citrus tristeza  
 Knorr, L.C., 1956
- AEGLE Correa 1800 (Rutaceae)  
*A. marmelos*, Correa  
 V. citrus tristeza  
 Knorr, L.C., 1956
- AEGOPODIUM Knaut. ex L. 1735 (Umbelliferae)  
*A. podagraria*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- AESCLUSUS L. 1740 (Hippocastanaceae)  
*A. californica*, (Spach) Nutt.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- AGAPANTHUS L'Herit. 1788 (Liliaceae)  
*A. africanus*, Hoffmgg.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- AGERATUM L. 1737 (Compositae)  
*A. conyzoides*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*A. houstonianum*, Mill.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*A. officinalis* \*  
 V. henbane mosaic  
 Hamilton, Marion A., 1932
- AGROPYRON J. Gaertn. 1770 (Gramineae)  
*A. amurense*, Drobov. \*  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. ciliare*, (Trin.) Franch. \*  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952  
*A. cristatum*, (L.) Gaertn.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J.T., 1952, 1955  
*A. dasystachyum*, (Hook.) Scribn.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J.T., 1952  
*A. desertorum*, (Fisch.) Schult.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952  
*A. divaricatum*, Boiss. & Bal.  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. elongatum*, (Host) Beauv.  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957

- Agropyron elongatum*, (Host) Beauv. (cont.)  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Fellows, Hurley and John W. Schmidt, 1953  
 Slykhuis, J. T., 1952, 1955  
*A. inerme*, (Scribn. & Sm.) Rydb.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
*A. intermedium*, (Host) Beauv.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 Fellows, Hurley and John W. Schmidt, 1953  
 Slykhuis, J. T., 1952, 1955  
*A. junceum*, (L.) Beauv.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
*A. pertense*, (Mey.) Nevski  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
*A. repens*, L.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. beet ring spot \*  
 Harrison, B.D., 1957  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J. T., 1952, 1955  
*A. rigidum*, Beauv.  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
*A. semicostatum*, Nees, ex Steud.  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. sibiricum*, (Willd.) Beauv.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. smithii*, Rydb.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, John T., 1955  
*A. spicatum*, (Pursh) Scribn. & Sm.  
 V. wheat streak mosaic  
 McKinney, H.H. and W.J. Sando, 1951  
*A. trachycaulum*, (Link) Malte  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952, 1955  
*A. trichophorum*, C. Richt.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
*A. trichophorum*, C. Richt. (cont.)  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952  
 AGROSTIS L. 1735 (Gramineae)  
*A. alba*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat streak mosaic  
 Slykhuis, John T., 1955  
*A. exarata*, Trin.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
*A. palustris*, Huds.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
 AJUGA L. 1737 (Labiatae)  
*A. reptans*, L., var. *rubra*, Hort.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 ALLIUM ((Tourn.)) L. 1735 (Liliaceae)  
*A. canadense*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
*A. cepa*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. narcissus mosaic  
 Haasis, Frank A., 1939  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
 McWhorter, F.P., 1935  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*A. cernuum*, Roth  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*A. fistulosum*, L.  
 V. onion yellow dwarf  
 Brierley, Philip and Floyd F. Smith, 1946  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
*A. fistulosum* x *A. cepa*, L.  
 V. onion yellow dwarf  
 Brierley, Philip and Floyd F. Smith, 1946  
*A. odorum*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944



- Allium porrum*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944
- A. *sativum*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935
- A. *schoenoprasum*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935
- A. *speciosum*, Cyr.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- A. *tuberosum*, Roxb.  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952
- A. *vineale*, L.  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950
- ALOE Tourn. ex L. 1735 (Liliaceae)  
 A. spp.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ALONSOA Ruiz & Pav. 1798 (Scrophulariaceae)  
 A. *warscewiczii*, Regel  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. pelargonium ring spot \*  
 Hollings, M., 1957
- ALOPECURUS L. 1735 (Gramineae)  
 A. *arundinaceus*, Poir.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 A. *pratensis*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- ALSINE Scop. 1772 (Caryophyllaceae)  
 A. *media*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- ALSTONIA R. Br. 1809 (Apocynaceae)  
 A. *congensis*, Engl.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- ALTHAEA ((Tourn.)) L. 1735 (Malvaceae)  
 A. *rosea*, (L.) Cav.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- ALYSSUM Tourn. ex L. 1735 (Cruciferae)  
 A. *maritimum*, Lam.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 A. *saxatile*, L.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 A. *saxatile* var. *compactum*, Hort.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942
- AMARANTHUS L. 1735 (Amaranthaceae)  
 A. *caudatus*, L.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 A. *cruentus*, L.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 A. *dubius*, Mart.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 A. *graecizans*, L.  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. lucerne mosaic  
 Porter, D.R., 1935  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 A. *hybridus*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 A. *retroflexus*, L.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco ring spot  
 Henderson, R.G. and S.A. Wingard, 1931  
 A. *spinosus*, L.  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 A. spp.  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946

- Amaranthus tricolor*, L.  
 V. cauliflower mosaic  
 Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. tobacco etch  
 Holmes, Francis O., 1946
- AMARYLLIS L. 1735 (Amaryllidaceae)  
 (HIPPEASTRUM) Herb. 1821  
 A. spp.  
 V. narcissus mosaic  
 Haasis, Frank A., 1939  
 V. sweet potato mosaic  
 Borders, H.I. and T.J. Ratcliff, 1954  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 (H. puniceum), Urb.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 (H. vittatum), Herb.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- AMBROSIA L. 1737 (Compositae)  
 A. artemisiifolia, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 A. psilostachya, DC.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. lucerne mosaic  
 Porter, D.R., 1935  
 A. trifida, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco etch  
 Holmes, Francis O., 1946
- AMMANNIA ((Houst.)) L. 1737 (Lythraceae)  
 A. coccinea, Rothb.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ANAGALLIS ((Tourn.)) L. 1735 (Primulaceae)  
 A. arvensis, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tobacco etch  
 Holmes, Francis O., 1946
- ANANAS Tourn. ex L. 1735 (Bromeliaceae)  
 A. comosus, (L.) Merr.  
 V. potato Y  
 Sakimura, K., 1953  
 A. sativus, Schult. f.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- ANCHUSA L. 1735 (Boraginaceae)  
 A. azurea, Mill.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946
- A. capensis, Thunb.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 A. officinalis, L.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- ANDROPOGON L. 1753 (Gramineae)  
 A. elliotii, Chapm.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klapaak, 1923  
 A. hallii, Hack.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 A. ischaemum, Thunb.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 A. scoparius, Michx.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klapaak, 1923  
 A. sibiricus, Steud.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 A. virginicus, L.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klapaak, 1923
- ANEMONE L. 1735 (Ranunculaceae)  
 A. coronaria, L.  
 V. cabbage black ring spot  
 Hollings, M., 1957  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941
- ANEMOPSIS Hook. & Arn. \* (Saururaceae)  
 A. californica, Hook.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ANTHEMIS Mich. ex L. 1735 (Compositae)  
 A. cotula, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- ANTHURIUM Schott. 1829 (Araceae)  
 A. andraeanum, Lindl.  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952
- ANTIRRHINUM Tourn. ex L. 1735 (Scrophulariaceae)  
 A. majus, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bean yellow mosaic  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. gladiolus \*  
 Snow, Gordon F., 1955  
 V. hydrangea ring spot  
 Brierley, Philip and Floyd F. Smith, 1952  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. pelargonium ring spot \*  
 Hollings, M., 1957

- Antirrhinum majus*, L. (cont.)  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- A. spp.  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1931, 1932
- APEIBA Aubl. 1775 (Tiliaceae)  
 A. tibourbou, Aubl., var. membranacea, Lockh. \*  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- APIOS Moench 1794 (Leguminosae)  
 A. americana, Medic. (A. tuberosa, Moench) \*  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- APIUM ((Tourn.)) L. 1735 (Umbelliferae)  
 A. graveolens, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Tompkins, C.M., 1937  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 V. cucumber mosaic  
 Bhargava, K.S., 1951  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947  
 V. eggplant mosaic  
 Dale, W.T., 1954  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. teasel mosaic  
 Stoner, Warren N., 1951  
 V. tobacco etch  
 Anderson, C.W., 1954  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- A. graveolens, L. (cont.)  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- A. graveolens var. dulce, DC.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Severin, Henry H.P., 1934  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. cucumber mosaic  
 Simons, John N., 1957  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. pea enation mosaic  
 Simons, John N., 1954  
 V. primula mosaic  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. squash mosaic (southern)  
 Anderson, C.W., 1951
- A. graveolus, L.  
 V. cowpea mosaic  
 Yu, T.F., 1946
- AQUILEGIA ((Tourn.)) L. 1735 (Ranunculaceae)  
 A. caerulea, James  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- A. canadensis, L.  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- A. spp.  
 V. squash mosaic  
 Freitag, J.H., 1956
- ARABIS L. 1737 (Cruciferae)  
 A. albida, Stev.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Tompkins, C.M., 1939
- ARACHIS L. 1735 (Leguminosae)  
 A. hypogaea, L.  
 V. bean yellow mosaic  
 Grogan, Raymond G. and J.C. Walker, 1948  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. pea enation mosaic  
 Osborn, H.T., 1938  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco mosaic  
 Das, C.R. and S.P. Raychaudhuri, 1953

- Arachis hypogaea*, L. (cont.)  
 V. tobacco ring spot  
 Cooper, W. E., 1949
- ARCTIUM L. 1735 (Compositae)  
*A. lappa*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Fenne, S. B., 1931  
*A. minus*, Bernh.  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954  
 V. tobacco mosaic  
 Stover, W. G. and M. T. Vermillion, 1933  
*A. tomentosum*, Mill.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ARCTOTIS L. 1737 (Compositae)  
*A. stoechadifolia*, Berg., var. *grandis*, (Thunb.) Less.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- ARMERIA L. 1735 (Plumbaginaceae)  
*A. formosa*, Hort.  
 V. pea mosaic  
 Murphy, D. M. and W. H. Pierce, 1937
- ARRHENATHERUM Beauv. 1812 (Gramineae)  
*A. elatius*, (L.) Presl.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat streak mosaic  
 Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- ARTEMISIA L. 1735 (Compositae)  
*A. californica*, Less.  
 V. beet curly top  
 Severin, Henry H. P., 1939  
*A. vulgaris*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- ARTOCARPUS Forst. 1776 (Moraceae)  
*A. incisa*, L. f.  
 V. cacao swollen shoot  
 Posnette, A. F., N. F. Robertson and J. McA.  
 Todd, 1950
- ASCLEPIAS L. 1737 (Asclepiadaceae)  
*A. curassavica*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*A. mexicana*, Cav.  
 V. beet curly top  
 Carsner, E., 1919  
*A. spp.*  
 V. tobacco ring spot  
 Fenne, S. P., 1931  
*A. syriaca*, L.  
 V. onion yellow dwarf  
 Henderson, W. J., 1935  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*A. tuberosa*, L.  
 V. squash mosaic  
 Freitag, J. H., 1956  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942
- ASPARAGUS Tourn. ex L. 1735 (Liliaceae)  
*A. asparagoides*, (L.) Wight  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*A. officinalis*, L.  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
*A. plumosus*, Baker  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
*A. sprengeri*, Regel  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ASPHODELINE Reichb. 1830 (Liliaceae)  
*A. lutea*, Reichb.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ASTER Tourn. ex L. 1735 (Compositae)  
*A. ericoides*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
*A. lateriflorus*, (L.) Britt.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
*A. multiflorus*, Ait.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
*A. novae-angliae*, L.  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
*A. spp.*  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M.  
 Hildebrand, 1947  
 V. panicum mosaic \*  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
 V. pea mosaic  
 Murphy, D. M. and W. H. Pierce, 1937
- ASTRAGALUS Tourn. ex L. 1737 (Leguminosae)  
*A. canadensis*, L.  
 V. lucerne witches' broom  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
*A. cicer*, L.  
 V. lucerne witches' broom  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
*A. rubyi*, Greene & Morris  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
*A. spp.*  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M.  
 Hildebrand, 1947
- ATALANTIA Correa 1805 (Rutaceae)  
*A. ceylanica*, Oliver  
 V. citrus tristeza  
 Knorr, L. C., 1956  
*A. citroides*, Pierre  
 V. citrus tristeza  
 Knorr, L. C., 1956
- ATLYSANUS Greene 1885 (Cruciferae)  
*A. pusillus*, Greene  
 V. cauliflower mosaic  
 Tompkins, C. M., 1937

- ATRIPLEX ((Tourn.)) L. 1735 (Chenopodiaceae)  
 A. bracteosa, S. Wats.  
   V. squash mosaic  
     Freitag, J.H., 1956  
 A. expansa, (D. & H.) S. Wats.  
   V. squash mosaic  
     Freitag, J.H., 1956  
 A. lentiformis, (Torr.) S. Wats.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 A. patula, L.  
   V. beet yellow net  
     Sylvester, Edward S., 1948  
 A. polycarpa, (Torr.) S. Wats.  
   V. beet curly top  
     Carsner, E., 1919  
     Severin, Henry H.P. and Charles F. Henderson,  
     1928  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 A. rosea, L.  
   V. beet yellow net  
     Sylvester, Edward S., 1948  
 A. semibaccata, R. Br.  
   V. beet curly top  
     Bennett, C.W. and A.S. Costa, 1949  
 A. spinifera, Macbride  
   V. beet curly top  
     Severin, Henry H.P. and Charles F. Henderson,  
     1928
- ATROPA L. 1737 (Solanaceae)  
 A. belladonna, L.  
   V. beet mosaic  
     Pound, Glenn S., 1947  
   V. cauliflower mosaic  
     Walker, J.C., Francis J. LeBeau and Glenn S.  
     Pound, 1945  
   V. dodder latent mosaic  
     Bennett, C.W., 1944  
   V. henbane mosaic  
     Hamilton, Marion A., 1932  
   V. nicotiana glutinosa mosaic \*  
     Allard, H.A., 1916  
   V. potato X  
     Cockerham, George, 1943  
     Dennis, R.W.G., 1939  
   V. potato Y  
     Cockerham, George, 1943  
   V. tobacco mosaic  
     Allard, H.A., 1916  
   V. turnip mosaic  
     Walker, J.C., Francis J. LeBeau and Glenn S.  
     Pound, 1945
- AVENA L. 1735 (Gramineae)  
 A. fatua, L.  
   V. agropyron mosaic  
     Slykhuis, J.T., 1952  
   V. barley stripe mosaic  
     Slykhuis, J.T., 1952  
   V. wheat spot mosaic \*  
     Slykhuis, John T., 1956  
   V. wheat streak mosaic  
     Slykhuis, J.T., 1952  
 A. sativa, L.  
   V. agropyron mosaic  
     Slykhuis, J.T., 1952  
   V. barley stripe mosaic  
     Sill, W.H., Jr. and E.D. Hansing, 1955  
     Slykhuis, J.T., 1952  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. cabbage black ring spot  
     Tompkins, C.M., M.W. Gardner and H. Rex  
     Thomas, 1938  
   V. corn new mosaic \*  
     Finley, A.M., 1954  
   V. cucumber mosaic  
     McWhorter, F.P. and H.H. Millsap, 1954  
     Wellman, F.L., 1935  
   V. maize leaf fleck  
     Stoner, Warren N., 1952
- A. sativa, L. (cont.)  
   V. nothoscordum mosaic  
     McKinney, H.H., 1950  
   V. panicum mosaic \*  
     Sill, W.H., Jr. and R.C. Pickett, 1957  
   V. soil-borne wheat mosaic  
     McKinney, H.H., 1930  
   V. sugarcane mosaic  
     Brandes, E.W. and Peter J. Klaphaak, 1923  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. turnip mosaic  
     Tompkins, C.M. and H. Rex Thomas, 1938  
   V. wheat spot mosaic \*  
     Slykhuis, John T., 1956
- BAPHIA Afzel. ex Lodd. 1825 (Leguminosae)  
 B. nitida, Lodd.  
   V. cacao swollen shoot  
     Tinsley, T.W. and A.L. Wharton, 1958
- BAPTISIA Vent. 1808 (Leguminosae)  
 B. australis, R. Br.  
   V. pea mosaic  
     Murphy, D.M. and W.H. Pierce, 1937  
 B. spp.  
   V. muskmelon mosaic  
     Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
     Hildebrand, 1947
- BARBAREA R. Br. 1812 (Cruciferae)  
 B. vulgaris, R. Br.  
   V. cauliflower mosaic  
     Walker, J.C., Francis J. LeBeau and Glenn S.  
     Pound, 1945  
   V. muskmelon mosaic  
     Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
     Hildebrand, 1947  
   V. pea mottle  
     Johnson, Folke, 1942  
   V. pea wilt  
     Johnson, Folke, 1942  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
   V. turnip mosaic  
     Pound, Glenn S., 1948  
     Walker, J.C., Francis J. LeBeau and Glenn S.  
     Pound, 1945
- BECKMANNIA Host 1805 (Gramineae)  
 B. syzigachne, (Steud.) Fern.  
   V. barley yellow dwarf  
     Bruehl, G.W. and H.V. Toko, 1957
- BEGONIA ((Tourn.)) L. 1742 (Begoniaceae)  
 B. semperflorens, Link & Otto  
   V. primula mosaic  
     Tompkins, C.M. and John T. Middleton, 1941  
   V. radish mosaic  
     Tompkins, C.M., 1939  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
   V. tobacco necrosis  
     Price, W.C., Frank P. McWhorter and Betty H.  
     Steranka, 1950  
   V. tomato ring spot  
     Samson, R.W. and E.P. Imle, 1942  
   V. turnip mosaic  
     Tompkins, C.M., 1939  
     Tompkins, C.M. and H. Rex Thomas, 1938  
 B. spp.  
   V. vaccinium false blossom  
     Kunkel, L.O., 1945

- BELAMCANDA** Adans. 1763 (Iridaceae)  
*B. chinensis*, (L.) DC.  
 V. bean yellow mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. iris mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 Travis, R.V., 1957  
 V. iris ring spot \*  
 Travis, R.V., 1957  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- BELLIS** ((Tourn.)) L. 1737 (Compositae)  
*B. perennis*, L.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- BENINCASA** Savi 1818 (Cucurbitaceae)  
*B. hispida*, Cogn.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957
- BERBERIS** ((Tourn.)) L. 1737 (Berberidaceae)  
*B. vulgaris*, L.  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- BERRYA** DC. 1824 (Tiliaceae)  
*B. ammonilla*, Roxbg.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- BERTEROA** DC. 1821 (Cruciferae)  
*B. incana*, (L.) DC.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- BETA** ((Tourn.)) L. 1735 (Chenopodiaceae)  
*B. macrocarpa*, Guss.  
 V. beet curly top  
 Costa, A.S., 1952  
*B. patellaris*, Moq.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
*B. patula*, ((Soland. in)) Ait. Hort. Kew.  
 V. beet curly top  
 Costa, A.S., 1952  
*B. vulgaris*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Severin, Henry H.P., 1929  
 V. barley stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*B. vulgaris*, L. (cont.)  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet curly top  
 Costa, A.S., 1952  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Govier, D.A., 1957  
 Nienow, Inez, 1948  
 V. (cucumber) O.S.C. isolate 606 \*  
 Porter, Clark A. and Frank P. McWhorter, 1951  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 Thomas, H. Rex, 1951  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. papaw ring spot  
 Jensen, D.D., 1949  
 V. pea enation mosaic  
 Simons, John N., 1954  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. primula mosaic  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 V. potato Y  
 Johnson, E.M., 1930  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. soybean mosaic  
 Conover, Robert A., 1948

- Beta vulgaris*, L. (cont.)  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. squash mosaic (southern)  
 Anderson, C.W., 1951  
 V. teasel mosaic  
 Stoner, Warren N., 1951  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco etch  
 Bennett, C.W., 1944  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Johnson, E.M., 1930  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Sakimura, K., 1940  
 Smith, Kenneth M., 1931  
 V. tomato yellow net  
 Sylvester, Edward S., 1954  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Dale, W.T., 1948  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
**B.** *vulgaris* var. *cicla*, (L.) Moq.  
 V. barley stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. beet curly top  
 Costa, A.S., 1952  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
 V. chilli veinbanding  
 Simons, John N., 1956  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Sakimura, K., 1940  
 V. turnip mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Dale, W.T., 1948  
**BIDENS** ((Tourn.)) L. 1737 (Compositae)  
**B.** *bipinnata*, L.  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
**B.** *cynapiifolia*, H. B. & K.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
**B.** *discoidea*, (Torr. & Gray) Brit.  
 V. tomato ring spot  
 Samson, R.W. E.P. Imle, 1942  
**B.** *frondosa*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
**B.** *leucantha*, L. \*  
 V. celery mosaic  
 Doolittle, S.P. and F.L. Wellman, 1934  
**B.** *leucantha*, L. \* (cont.)  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
**B.** *pilosa*, L.  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
**BIXA** L. 1737 (Bixaceae)  
**B.** *orellana*, L.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
**BOEHMERIA** Jacq. 1760 (Urticaceae)  
**B.** *nivea*, Gaud.  
 V. abutilon infectious variegation  
 Silberschmidt, Karl M., 1948  
**BOLTONIA** L'Herit. 1788 (Compositae)  
**B.** *latisquama*, A. Gray  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. *prunus* A \*  
 Fulton, Robert W., 1957  
 V. *prunus* E \*  
 Fulton, Robert W., 1957  
 V. *prunus* G \*  
 Fulton, Robert W., 1957  
**BOMBAX** L. 1753 (Bombacaceae)  
**B.** *buonopozense*, Beauv.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958  
**BORAGO** L. 1753 (Boraginaceae)  
**B.** *officinalis*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
**BOUPELLOUA** Lag. 1805 (Gramineae)  
**B.** *gracilis*, (H. B. & K.) Lag.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
**BRASSICA** ((Tourn.)) L. 1735 (Cruciferae)  
**(SINAPIS)** L. 1735  
**B.** *adpressa*, Boiss.  
 V. beet curly top  
 Giddings, N.J., 1944  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
**B.** *campestris*, L.  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
**B.** *campestris* var. *napobrassica*, (L.) DC.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. *physalis floridana* yellow net  
 Webb, R.E., 1955  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. turnip mosaic  
 Tompkins, C.M., 1939

- Brassica campestris*, L., var. *toria* \*
- V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
- B. chinensis*, L.
- V. beet yellow net  
Sylvester, Edward S., 1948
  - V. cucumber green mottle mosaic  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
  - V. orchid (*cymbidium*) mosaic  
Jensen, D.D., 1951
  - V. orchid (*odontoglossum*) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
  - V. papaw ring spot  
Jensen, D.D., 1949
  - V. tomato aspermy  
Hollings, M., 1955
- B. hirta*, Moench (*B. alba*, (L.) Rabh.)
- V. cucumber mosaic  
Johnson, E.M., 1930  
Wellman, F.L., 1935
  - V. potato X  
Johnson, E.M., 1930
  - V. potato Y  
Johnson, E.M., 1930
  - V. tobacco coarse etch  
Johnson, E.M., 1930
  - V. tobacco etch  
Johnson, E.M., 1930
  - V. tobacco mosaic  
Johnson, E.M., 1930
  - V. tobacco ring spot  
Johnson, E.M., 1930  
Wingard, S.A., 1928
  - V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
  - V. turnip mosaic  
Tompkins, C.M., 1938  
Tompkins, C.M. and H. Rex Thomas, 1938
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
- B. integrifolia*, O.E. Schulz, var. *chevalieri*,
- V. cabbage black ring spot R. Porteres \*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. turnip mosaic  
Tompkins, C.M., 1938  
Tompkins, C.M. and H. Rex Thomas, 1938
- B. juncea*, (L.) Coss (*B. japonica*, Hort.)
- V. beet mosaic  
Pound, Glenn S., 1947
  - V. cauliflower mosaic  
Tompkins, C.M., 1937
  - V. pea enation mosaic  
Simons, John N., 1954
  - V. potato leaf roll  
MacCarthy, H.R., 1954
  - V. turnip mosaic  
Tompkins, C.M., 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- B. kaber*, (DC.) L.C. Wheeler (*B. arvensis*, (L.) Rabh.)
- V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. muskmelon mosaic  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. turnip mosaic  
Tompkins, C.M., 1938
- B. napus*, L.
- V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. cucumber mosaic  
Wellman, F.L., 1935
  - V. potato leaf roll  
MacCarthy, H.R., 1954
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. tobacco ring spot  
Pound, Glenn S., 1949
- B. napus*, L. (cont.)
- V. turnip mosaic  
Tompkins, C.M., 1938, 1939
- B. napus* var. *chinensis*, (L.) O.E. Schulz \*
- V. orchid (*vanda*) mosaic  
Murakishi, Harry H., 1952
- B. nigra*, (L.) Koch
- V. beet mosaic  
Bennett, C.W., 1949
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. cucumber mosaic  
Wellman, F.L., 1935
  - V. potato leaf roll  
MacCarthy, H.R., 1954
  - V. turnip mosaic  
Tompkins, C.M., 1938
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
- B. oleracea*, L.
- V. bean yellow stipple  
Zaumeier, W.J. and H. Rex Thomas, 1950
  - V. beet curly top  
Carsner, E., 1919
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. chilli veinbanding  
Simons, John N., 1956
  - V. citrus tristeza  
Knorr, L.C., 1956
  - V. cucumber green mottle mosaic  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
  - V. cucumber mosaic  
Doolittle, S.P. and W.J. Zaumeier, 1953  
Johnson, E.M., 1930  
Simons, John N., 1957
  - V. dodder latent mosaic  
Bennett, C.W., 1944
  - V. henbane mosaic  
Hamilton, Marion A., 1932
  - V. potato X  
Johnson, E.M., 1930
  - V. potato Y  
Johnson, E.M., 1930
  - V. sweet potato mosaic  
Borders, H.I. and T.J. Ratcliff, 1954
  - V. tobacco coarse etch  
Johnson, E.M., 1930
  - V. tobacco etch  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - V. tobacco mosaic  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - V. tobacco ring spot  
Johnson, E.M., 1930
  - V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
- B. oleracea* var. *acephala*, DC.
- V. anemone mosaic \*  
Hollings, M., 1957
  - V. cucumber mosaic  
Wellman, F.L., 1935
  - V. *physalis floridana* yellow net  
Webb, R.E., 1955
  - V. tobacco ring spot  
Wingard, S.A., 1928
  - V. turnip mosaic  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C.M., 1938, 1939
- B. oleracea* var. *botrytis*, L.
- V. anemone mosaic \*  
Hollings, M., 1957
  - V. bean pod mottle  
Zaumeier, W.J. and H. Rex Thomas, 1948
  - V. beet mosaic  
Severin, Henry H.P. and Roger M. Drake, 1948
  - V. cauliflower mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954
  - V. celery mosaic  
Freitag, Julius H. and Henry H.P. Severin, 1945



- Brassica oleracea, L., var. botrytis, L. (cont.)
- V. chilli (pepper) mosaic
    - Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
    - Wellman, F.L., 1935
  - V. filaree red leaf
    - Frazier, Norman W., 1951
  - V. orchid (cymbidium) mosaic
    - Jensen, D.D., 1951
  - V. physalis floridana yellow net
    - Webb, R.E., 1955
  - V. potato leaf roll
    - MacCarthy, H.R., 1954
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
  - V. rape savoy
    - Ling, Lee and Juhwa Y. Yang, 1940
  - V. squash mosaic
    - Freitag, J.H., 1956
  - V. tobacco ring spot
    - Pound, Glenn S., 1949
  - V. tobacco streak
    - Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
    - Hollings, M., 1955
  - V. tomato spotted wilt
    - Sakimura, K., 1940
  - V. turnip mosaic
    - Dale, W.T., 1948
    - LeBeau, Francis J. and J.C. Walker, 1945
    - Pound, Glenn S., 1948
    - Severin, Henry H.P. and C.M. Tompkins, 1950
    - Sylvester, Edward S., 1953
    - Takahashi, William N., 1949
    - Tompkins, C.M., 1938, 1939
- B. oleracea var. botrytis cymosa \*
- V. lettuce mosaic
    - Ainsworth, G.C. and L. Ogilvie, 1939
- B. oleracea var. capitata, L.
- V. bean yellow mosaic
    - Thomas, H. Rex and W.J. Zaumeyer, 1953
  - V. beet mosaic
    - Pound, Glenn S., 1947
    - Severin, Henry H.P. and Roger M. Drake, 1948
  - V. chilli (pepper) mosaic
    - Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
    - Bridgmon, G.H. and J.C. Walker, 1952
    - Wellman, F.L., 1935
  - V. lucerne mosaic
    - Thomas, H. Rex, 1951
  - V. pea mosaic
    - Murphy, D.M. and W.H. Pierce, 1937
  - V. pea mottle
    - Johnson, Folke, 1942
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. potato leaf roll
    - MacCarthy, H.R., 1954
  - V. potato Y
    - Bawden, F.C. and F.M.L. Sheffield, 1944
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
  - V. rape savoy
    - Ling, Lee and Juhwa Y. Yang, 1940
  - V. red currant ring spot
    - Klessner, P.J., 1951
  - V. spinach yellow dwarf
    - Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic
    - Freitag, J.H., 1956
  - V. tobacco ring spot
    - Bridgmon, G.H. and J.C. Walker, 1952
    - Smith, Kenneth M., 1929
    - Wingard, S.A., 1928
- B. oleracea var. capitata, L. (cont.)
- V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
    - Hollings, M., 1955
  - V. tomato spotted wilt
    - Sakimura, K., 1940
  - V. turnip mosaic
    - Clayton, E.E., 1930
    - Dale, W.T., 1948
    - LeBeau, Francis J. and J.C. Walker, 1945
    - Sylvester, Edward S., 1953
    - Takahashi, William N., 1949
    - Tompkins, C.M., 1939
- B. oleracea var. caulorapa, DC.
- V. anemone mosaic \*
    - Hollings, M., 1957
  - V. chilli (pepper) mosaic
    - Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. cucumber mosaic
    - Nienow, Inez, 1948
    - Wellman, F.L., 1935
  - V. rape savoy
    - Ling, Lee and Juhwa Y. Yang, 1940
  - V. turnip mosaic
    - Dale, W.T., 1948
    - Sylvester, Edward S., 1953
    - Takahashi, William N., 1949
    - Tompkins, C.M., 1938, 1939
- B. oleracea var. gemmifera, DC.
- V. anemone mosaic \*
    - Hollings, M., 1957
  - V. beet mosaic
    - Pound, Glenn S., 1947
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
    - Wellman, F.L., 1935
  - V. potato Y
    - Bawden, F.C. and F.M.L. Sheffield, 1944
  - V. tobacco etch
    - Bennett, C.W., 1944
  - V. tobacco ring spot
    - Pound, Glenn S., 1949
  - V. turnip mosaic
    - LeBeau, Francis J. and J.C. Walker, 1945
    - Sylvester, Edward S., 1953
    - Takahashi, William N., 1949
    - Tompkins, C.M., 1938, 1939
- B. oleracea var. gongylodes, L.
- V. beet mosaic
    - Pound, Glenn S., 1947
  - V. cucumber green mottle mosaic
    - Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
  - V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
  - V. turnip mosaic
    - LeBeau, Francis J. and J.C. Walker, 1945
- B. oleracea var. italica, Plenck. \*
- V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
- B. oleracea var. viridis, L.
- V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954
  - V. turnip mosaic
    - LeBeau, Francis J. and J.C. Walker, 1945
- B. pekinensis, (Lour.) Rupr.
- V. anemone brown ring \*
    - Hollings, M., 1958
  - V. beet curly top
    - Costa, A.S., 1952
    - Severin, Henry H.P., 1929
  - V. beet mosaic
    - Pound, Glenn S., 1947
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. chrysanthemum latent \*
    - Hollings, M., 1957
  - V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
  - V. cucumber mosaic
    - Berkeley, G.H. and J.H. Tremaine, 1954

- Brassica pekinensis*, (Lour.) Rupr. (cont.)  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- B. rapa*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 Nienow, Inez, 1948  
 Wellman, F.L., 1935  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- B. rapa* var. *depressa* \*  
 V. cucumber mosaic  
 Johnson, E.M., 1930  
 V. potato X  
 Johnson, E.M., 1930  
 V. potato Y  
 Johnson, E.M., 1930  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco etch  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Johnson, E.M., 1930
- B. sinensis*, L. \*  
 V. red currant ring spot  
 Klesser, P.J., 1951
- BRICKELLIA* Ell. 1824 (Compositae)  
*B. laciniata*, A. Gray  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- BRODIAEA* Sm. 1811 (Liliaceae)  
*B. capitata*, Benth.  
 V. tulip breaking  
 McWhorter, F.P., 1935
- B. uniflora*, Engl.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944
- B. uniflora*, Engl. (cont.)  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- BROMUS* Dill. ex L. 1735 (Gramineae)  
*B. brizaeformis*, Fisch. & Mey.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*B. carinatus*, Hook. & Arn.  
 V. wheat streak mosaic  
 McKinney, H.H., 1949  
*B. inermis*, Leyss  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, J.T., 1952, 1955
- B. japonicus*, Thunb.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956
- B. secalinus*, L.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956
- B. tectorum*, L.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956
- BROWALLIA* L. 1737 (Solanaceae)  
*B. americana*, L. (*B. demissa*, L.)  
 V. tobacco etch  
 Holmes, Francis O., 1946
- B. elata*, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. prunus A \*  
 Fulton, Robert W., 1957
- BRYONIA* L. 1735 (Cucurbitaceae)  
*B. dioica*, Jacq.  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935
- BUCHLOE* Engelm. 1859 (Gramineae)  
*B. dactyloides*, (Nutt.) Engelm.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- BUETTNERIA* Loefl. 1758 (Sterculiaceae)  
 (*BYTTNERIA*) Loefl. 1758  
*B. catalpifolia*, Wall.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CAESALPINIA* L. 1753 (Leguminosae)  
*C. pulcherrima*, (L.) Sw.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CAJANUS* DC. 1813 (Leguminosae)  
*C. cajan*, (L.) Millsp.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- C. indicus*, Spreng.  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935

- Cajanus indicus*, Spreng. (cont.)  
 V. bean yellow mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935
- CALENDULA** L. 1735 (Compositae)  
*C. chrysantha*, L. \*  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
*C. officinalis*, L.  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. beet yellows  
 Roland, G. and J. Tahan, 1961  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- C. spp.*  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1932
- CALLISTEPHUS** Cass. 1825 (Compositae)  
*C. chinensis*, (L.) Nees  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. aster yellows  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
 Severin, Henry H.P., 1929  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1955, 1957
- C. chinensis*, (L.) Nees  
 V. carnation mottle  
 Brierley, Philip and Floyd F. Smith, 1957  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cucumber mosaic  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Simons, John N., 1957  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1956  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco mosaic  
 Stover, W.G. and M.T. Vermillion, 1933  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1931  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 V. vaccinium false blossom  
 Kunkel, L.O., 1945
- CALONYCTION** Choisy 1833 (Convolvulaceae)  
*C. aculeatum*, (L.) House  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946
- CALYCANTHUS** L. 1759 (Calycanthaceae)  
*C. occidentalis*, Hook. & Arn.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- CALYSTEGLIA** R. Br. 1810 (Convolvulaceae)  
*C. sepium*, L.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957

- CAMASSIA** Lindl. 1832 (Liliaceae)  
*C. leichtlinii*, (Baker) S. Wats.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*C. quamash*, (Pursh) Greene  
 V. tulip breaking  
 McWhorter, F.P., 1935
- CAMPANULA** ((Tourn.)) L. 1735 (Campanulaceae)  
*C. carpatica*, Jacq.  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*C. lactiflora*, Bieb.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*C. medium*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*C. petiolata*, DC. (*C. rotundifolia* of Amer. auths.)  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*C. pyramidalis*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- CANAVALIA** DC. 1825 (Leguminosae)  
*C. ensiformis*, (L.) DC.  
 V. bean common mosaic  
 Reddick, D. and V.B. Stewart, 1919  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*C. gladiata*, (Jacq.) DC.  
 V. bean common mosaic  
 Nelson, Ray, 1932  
*C. gladiata*, (Jacq.) DC. (cont.)  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 V. lucerne mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935
- CANNA** L. 1735 (Cannaceae)  
*C. edulis*, Ker-Gawl.  
 V. cucumber mosaic  
 Celino, Martin S., 1940  
*C. generalis*, Bailey  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*C. glauca*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. indica*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
*C. spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- CANTHIUM** Lam. 1783 (Rubiaceae)  
*C. glabriflorum*, Hiern  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- CAPSELLA** Medic. 1792 (Cruciferae)  
 (BURSA) Weber 1780  
*C. bursa-pastoris*, (L.) Medik.  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- CAPSICUM** ((Tourn.)) L. 1735 (Solanaceae)  
*C. cerasiforme*, Mill.  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916  
*C. frutescens*, L. (*C. annuum*, L.)  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Costa, A.S., 1952  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 Capoor, S.P. and P.M. Varma, 1956  
 McLean, D.M., 1941  
 Yu, T.F., 1946  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S. and T.K. Nariani, 1952  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Anderson, C.W. and M.K. Corbett, 1957

- Capsicum frutescens*, L. (*C. annum*, L.) (cont.)
- V. cucumber mosaic
    - Burnett, G., 1934
    - Govier, D.A., 1957
    - Vasudeva, R. Sahai and T.B. Lal, 1943
  - V. (cucumber) O.S.C. isolate 606 \*
    - Porter, Clark A. and Frank P. McWhorter, 1951
  - V. hibiscus yellow vein mosaic
    - Capoor, S.P. and P.M. Varma, 1950
  - V. hydrangea ring spot
    - Brierley, Philip and Paul Lorentz, 1957
  - V. lucerne mosaic
    - Johnson, E.M., 1946
    - Thomas, H. Rex, 1951
    - Zaunmeyer, W.J., 1953
  - V. muskmelon mosaic
    - Anderson, C.W., 1954
    - Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. nicotiana glutinosa root necrosis \*
    - Cetas, Robert C. and A. Frank Ross, 1952
  - V. orchid (vanda) mosaic
    - Murakishi, Harry H., 1952
  - V. papaw mosaic
    - Adsuar, Jose, 1950
  - V. papaw ring spot
    - Jensen, D.D., 1949
  - V. pea streak
    - Zaunmeyer, W.J., 1938
  - V. petunia mosaic
    - Johnson, J., 1926, 1927
  - V. potato A
    - MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato leaf roll
    - Dykstra, T.P., 1933
  - V. potato M \*
    - Bagnall, R.H. and R.H. Larson, 1957
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato paracrinkle
    - Bagnall, R.H. and R.H. Larson, 1957
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato X
    - Dykstra, T.P., 1933
  - V. potato Y
    - Cockerham, George, 1943
    - Dykstra, T.P., 1933
  - V. spinach yellow dwarf
    - Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic (southern)
    - Anderson, C.W., 1951
  - V. sweet potato mosaic
    - Borders, H.I. and T.J. Ratcliff, 1954
  - V. tobacco coarse etch
    - Johnson, E.M., 1930
  - V. tobacco etch
    - McKinney, H.H., 1952
  - V. tobacco leaf curl
    - Bird, Julio, 1957
  - V. tobacco mosaic
    - Das, C.R. and S.P. Raychaudhuri, 1953
    - Johnson, J., 1926, 1927
  - V. tobacco ring spot
    - Berkeley, G.H., 1953
    - Cheo, Pen Ching and W.J. Zaunmeyer, 1952
    - Cooper, W.E., 1949
    - Johnson, E.M., 1930
    - Johnson, J., 1936
  - V. tomato spotted wilt
    - Parris, G.K., 1940
  - V. tropaeolum mosaic
    - Silberschmidt, Karl, 1953
  - V. watermelon mosaic
    - Anderson, C.W., 1954
- C. frutescens* var. *cerasiforme*, Bailey
- V. beet mosaic
    - Pound, Glenn S., 1947
  - V. cauliflower mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. cucumber mosaic
    - Pound, Glenn S. and J.C. Walker, 1948
  - V. turnip mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- C. frutescens* var. *grossum*, Bailey
- V. beet curly top
    - Costa, A.S., 1952
  - V. beet mosaic
    - Severin, Henry H.P. and Roger M. Drake, 1948
  - V. cauliflower mosaic
    - Tompkins, C.M., 1937
  - V. celery mosaic
    - Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
  - V. squash mosaic
    - Freitag, J.H., 1956
  - V. tobacco ring spot
    - Pound, Glenn S., 1949
    - Wingard, S.A., 1928
- C. spp.*
- V. beet curly top
    - Carsner, E., 1919
  - V. citrus tristeza
    - Knorr, L.C., 1956
- CARDAMINE ((Tourn.)) L. 1735 (Cruciferae)
- C. hirsuta*, L.
- V. cauliflower mosaic
    - Caldwell, John and Ian W. Prentice, 1942
- C. pratensis*, L.
- V. cauliflower mosaic
    - Caldwell, John and Ian W. Prentice, 1942
- CARDUUS ((Tourn.)) L. 1735 (Compositae)
- C. arvensis*, Robs.
- V. lettuce mosaic
    - Ainsworth, G.C. and L. Ogilvie, 1939
- CARICA L. 1737 (Caricaceae)
- C. papaya*, L.
- V. cacao swollen shoot
    - Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
  - V. crotalaria mosaic
    - Jensen, D.D., 1949
  - V. cucumber mosaic
    - Adsuar, Jose and A. Cruz Miret, 1950
    - Wellman, F.L., 1935
  - V. orchid (vanda) mosaic
    - Murakishi, Harry H., 1952
  - V. tobacco etch
    - Holmes, Francis O., 1946
- CARTHAMUS ((Tourn.)) L. 1735 (Compositae)
- C. tinctorius*, L.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
- CARUM Rupp. ex L. 1735 (Umbelliferae)
- C. carvi*, L.
- V. squash mosaic
    - Freitag, J.H., 1956
- CASIMIROA La Llave 1825 (Rutaceae)
- C. edulis*, La Llave & Lex.
- V. citrus tristeza
    - Knorr, L.C., 1956
- CASSIA Tourn. ex L. 1735 (Leguminosae)
- C. marilandica*, L.
- V. prunus A \*
    - Fulton, Robert W., 1957
  - V. prunus B \*
    - Fulton, Robert W., 1957
  - V. prunus G \*
    - Fulton, Robert W., 1957
- C. medsgeri*, Shafer
- V. pea mosaic
    - Murphy, D.M. and W.H. Pierce, 1937
- C. occidentalis*, L.
- V. cacao swollen shoot
    - Tinsley, T.W. and A.L. Wharton, 1958
- C. sophera*, L.
- V. datura distortion mosaic
    - Capoor, S.P. and P.M. Varma, 1952
- C. tora*, L.
- V. cucumber mosaic
    - Anderson, C.W., 1954, 1955

- Cassia tora*, L. (cont.)  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. lucerne mosaic  
 Anderson, C.W., 1954  
 V. potato Y  
 Anderson, C.W., 1954  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. tobacco mosaic  
 Anderson, C.W., 1954
- CATANANCHE L. 1735 (Compositae)  
*C. caerulea*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- CATHARANTHUS G. Don 1836 (Apocynaceae)  
*C. roseus*, (L.) Don  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- CATTLEYA Lindl. 1824 (Orchidaceae)  
*C. gaskelliana*, Reichb. f.  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
*C. spp.*  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
*C. trianaei*, Lind. & Reichb. f.  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952
- CEANOTHUS L. 1741 (Rhamnaceae)  
*C. cuneatus*, Nutt.  
 V. beet curly top  
 Severin, Henry H.P., 1939
- CEIBA Gaertn. (Bombacaceae)  
*C. pentandra*, Gaertn.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CELERI Adans. 1763 (Umbelliferae)  
*C. graveolens*, Britton  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- CELOSIA L. 1737 (Amaranthaceae)  
*C. argentea*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. squash mosaic  
 Freitag, J.H., 1956  
*C. argentea* var. *cristata*, Kuntze  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*C. argentea* var. *plumosa* \*  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
*C. spp.*  
 V. citrus tristeza  
 Knorr, L.C., 1956
- CENTAUREA L. 1737 (Compositae)  
*C. americana*, Nutt.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*C. cyanus*, L.  
 V. aster yellows  
 Kunkel, L.O., 1928  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- C. cyanus*, L. (cont.)  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*C. imperialis*, Hort.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*C. montana*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*C. moschata*, L.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*C. nigra*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*C. repens*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
*C. spp.*  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- CENTRANTHUS DC. 1805 (Valerianaceae)  
*C. ruber*, (L.) DC.  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- CERASTIUM ((Dill.)) L. 1735 (Caryophyllaceae)  
*C. caespitosum*, Gilib.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*C. vulgatum*, L.  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- CHAEREFOLIUM Haller 1768 (Umbelliferae)  
*C. silvestre*, Schinz  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- CHAMAESYCE S.F. Gary 1821 (Euphorbiaceae)  
*C. hypericifolia*, Millsp.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958
- CHAPMANNIA Torr. & Gray 1839 (Leguminosae)  
*C. floridana*, Torr. & Gray  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- CHEIRANTHUS L. 1737 (Cruciferae)  
*C. allionii*, Hort.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945  
*C. cheiri*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957

- Cheiranthus cheiri, L. (cont.)  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939
- CHELIDONIUM Tourn. ex L. 1735 (Papaveraceae)  
 C. majus, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- CHELONE L. 1735 (Scrophulariaceae)  
 C. glabra, L.  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- CHENOPODIUM ((Tourn.)) L. 1735 (Chenopodiaceae)  
 C. album, L.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. beet rosette \*  
 Bennett, C.W. and James E. Duffus, 1957  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Fenne, S.B., 1931  
 Henderson, R.G. and S.A. Wingard, 1931  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. wheat streak mosaic  
 Meiners, Jack P. and H.H. McKinney, 1954  
 C. amaranticolor, Coste & Reyn.  
 V. beet rosette \*  
 Bennett, C.W. and James E. Duffus, 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
 C. ambrosioides, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- C. botrys, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 C. capitatum, (L.) Asch.  
 V. beet rosette \*  
 Bennett, C.W. and James E. Duffus, 1957  
 C. glaucum, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 C. hybridum, L.  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 C. leptophyllum, Nutt. ex S. Wats.  
 V. beet curly top  
 Carsner, E., 1919  
 C. murale, L.  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 C. rubrum, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- CHLORIS Sw. 1788 (Gramineae)  
 C. barbata, Nash  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- CHORISIA H. B. & K. 1821 (Bombacaceae)  
 C. spp.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- CHRISTIANA DC. 1824 (Tiliaceae)  
 C. africana, DC.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CHRYSANTHEMUM ((Tourn.)) L. 1735 (Compositae)  
 C. carinatum, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 C. cinerariifolium, (Trev.) Vis.  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 C. coccineum, Willd.  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 C. coronarium, L.  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tomato spotted wilt  
 Sakimura, K., 1940  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 C. leucanthemum, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 C. maximum, Ramond  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 C. morifolium, (Ramat.) Hemsl.  
 V. anemone brown ring \*  
 Hollings, M., 1958

- Chrysanthemum morifolium*, (Ramal.) Hemsl. (cont.)  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1957  
*C. parthenium*, (L.) Bernh.  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Wellman, F.L., 1935  
 V. squash mosaic  
 Freitag, J.H., 1956  
*C. segetum*, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- CHRYSOPSIS** Ell. 1824 (Compositae)  
*C. spp.*  
 V. tobacco ring spot  
 Henderson, R.G. and S.A. Wingard, 1931  
*C. villosa*, Nutt.  
 V. beet curly top  
 Severin, Henry H.P., 1939
- CICER** ((Tourn.)) L. 1735 (Leguminosae)  
*C. arietinum*, L.  
 V. bean common mosaic  
 Reddick, D. and V.B. Stewart, 1919  
 Snyder, W.C., 1942  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. lucerne mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. pea enation mosaic  
 Johnson, Folke and Leon K. Jones, 1937  
 V. pea mottle  
 Johnson, F. and L.K. Jones, 1936, 1937
- CICHORIUM** ((Tourn.)) L. 1735 (Compositae)  
*C. endivia*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*C. intybus*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cucumber mosaic  
 Pound, Glenn S. and J.C. Walker, 1948  
 Wellman, F.L., 1935  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- CINERARIA** L. p.p. 1763 (Compositae)  
*C. cruenta*, Mass.  
 V. lettuce mosaic  
 Jones, Leon K., 1944
- CIRCAEA** Tourn. ex L. 1735 (Onagraceae)  
*C. lutetiana*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- CIRSIUM** ((Tourn.)) Adans. 1763 (Compositae)  
*C. arvense*, (L.) Scop.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
*C. vulgare*, (Savi) Tenore  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- CISTANTHERA** C.K. Schum. 1897 (Tiliaceae)  
*C. papaverifera*, A. Chev.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- CITRULLUS** Forsk. 1775 (Cucurbitaceae)  
*C. citrullus*, Small  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
*C. colocynthis*, Schrad.  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
*C. vulgaris*, Schrad.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935  
 V. cucumber mosaic  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 V. (cucumber) O.S.C. isolate 606 \*  
 Porter, Clark A. and Frank P. McWhorter, 1951  
 V. cucurbit mosaic \*  
 Doolittle, S.P. and M.N. Walker, 1925  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. peach ring spot  
 Hobbs, Gordon A., 1951  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
*C. vulgaris* var. *citroides*, Bailey \*  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957



- Citrullus vulgaris*, Schrad. var. *fistulosus* \*  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber mosaic  
 Nariani, T.K. and Nirmaljit Singh, 1952
- CITRUS L. 1735 (Rutaceae)  
*C. aurantifolia*, (Christm.) Swingle  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. citrus exocortis  
 Olson, E.O. and A.V. Shull, 1956  
 V. citurs xyloporosis  
 Olson, E.O. and A.V. Shull, 1956  
*C. aurantium*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. grandis*, (L.) Osbeck  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. limon*, (L.) Burm. f.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
*C. nobilis*, Lour.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. nobilis* var. *unshiu*, Swingle on *C. sinensis*, (L.)  
 Osbeck x *Poncirus trifoliata*, (L.) Raf.  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
*C. nobilis* var. *unshiu*, Swingle on *Poncirus trifoliata*,  
 (L.) Raf.  
 Olson, Edward O. and James R. McDonald, 1954  
*C. paradisi*, Macf. on *C. paradisi* x *Poncirus trifoliata*,  
 (L.) Raf.  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
*C. paradisi* x *C. reticulata*, Blanco  
 V. citrus xyloporosis  
 Olson, E.O. and A.V. Shull, 1956  
*C. paradisi* x *C. reticulata*, Blanco on *C. sinensis*, (L.)  
 Osbeck x *Poncirus trifoliata*, (L.) Raf.  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
*C. paradisi* on (*C. sinensis*, (L.) Osbeck x *Poncirus*  
*trifoliata*, (L.) Raf.)  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
*C. reticulata*, Blanco  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
*C. sinensis*, (L.) Osbeck  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. sinensis* on *C. paradisi*, Macf. x *Poncirus trifoliata*,  
 (L.) Raf.  
 Olson, Edward O. and James R. McDonald, 1954  
*C. sinensis* on *Poncirus trifoliata*, (L.) Raf.  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954  
*C. spp.*  
 V. cucumber mosaic  
 Bennett, C.W., 1944
- CLAPPERTONIA Meissn. 1837 (Tiliaceae)  
*C. ficifolia*, Decne.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CLARKIA Pursh 1814 (Onagraceae)  
*C. elegans*, Dougl.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- CLEOME L. 1735 (Capparidaceae)  
*C. spinosa*, L.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. tobacco etch  
 Holmes, Francis O., 1946
- CLERODENDRON L. 1737 (Verbenaceae)  
*C. fragans*, Vent.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- CLITORIA L. 1737 (Leguminosae)  
*C. ternatea*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- COBAEA Cav. 1791 (Polemoniaceae)  
*C. scandens*, Cav.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- COCHLEARIA Tourn. ex L. 1735 (Cruciferae)  
*C. armoracia*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- COCHLOSPERMUM Kunth 1822 (Cochlospermaceae)  
*C. vitifolia*, Spreng.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- CODIAEUM Rumph. ex A. Juss. 1824 (Euphorbiaceae)  
*C. variegatum*, Blume  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- COFFEA L. 1735 (Rubiaceae)  
*C. arabica*, L.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949
- COIX L. 1737 (Gramineae)  
*C. lachyrma-jobi*, L.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- COLA Schott & Endl. 1832 (Sterculiaceae)  
*C. caricaefolia*, (G. Don) K. Schum. \*  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*C. chlamydantha*, K. Schum.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958

- Cola gigantea*, A. Chev., var. *glabrescens*, Brenan & Keay  
V. cacao swollen shoot Tinsley, T.W. and A.L. Wharton, 1958
- C. heterophylla*, Schott & Endl.  
V. cacao swollen shoot Tinsley, T.W. and A.L. Wharton, 1958
- C. lateritia*, K. Schum., var. *maclaudi*, (A. Chev.) Brenan & Keay  
V. cacao swollen shoot Tinsley, T.W. and A.L. Wharton, 1958
- C. millenii*, K. Schum. (*Cola togoensis*, Endl. & Krause)  
V. cacao swollen shoot Tinsley, T.W. and A.L. Wharton, 1958
- C. nitida*, Schott & Endl.  
V. cacao swollen shoot Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- C. togoensis*, Engl. & Krause  
V. cacao swollen shoot Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- C. umbratilis*, Brenan & Keay \*  
V. cacao swollen shoot Tinsley, T.W. and A.L. Wharton, 1958
- C. verticillata*, Stapf ex A. Chev.  
V. cacao swollen shoot Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- COLEUS Lour. 1790 (Labiatae)
- C. blumei*, Benth.  
V. muskmelon mosaic Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- V. prunus A \*  
Fulton, Robert W., 1957
- V. prunus G \*  
Fulton, Robert W., 1957
- V. tobacco etch  
Holmes, Francis O., 1946
- V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- C. blumei* var. *verschaffeltii*, Lem.  
V. tobacco ring spot  
Wingard, S.A., 1928
- C. lanuginosus*, Hochst. ex Benth.  
V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950
- V. papaw mosaic  
Adsuar, Jose, 1950
- COMMELINA Plum. ex L. 1735 (Commelinaceae)
- C. coelestis*, Willd.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944
- V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944
- V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- C. communis*, L.  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- C. diffusa*, Burm. f.  
V. papaw ring spot  
Jensen, D.D., 1949
- C. nudiflora*, L.  
V. cowpea mosaic  
Anderson, C.W., 1955
- V. cucumber mosaic  
Anderson, C.W., 1955  
Brierley, Philip and Floyd F. Smith, 1944
- V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944
- V. tomato spotted wilt  
Sakimura, K., 1940
- V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- C. spp.*  
V. chilli veinbanding  
Simons, John N., 1956
- V. cucumber mosaic  
Simons, John N., 1957
- C. venghalensis*, L. \*  
V. tomato spotted wilt  
Sakimura, K., 1940
- CONIUM L. 1735 (Umbelliferae)
- C. maculatum*, L.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- V. celery mosaic  
Freitag, Julius H. and Henry H.P. Severin, 1945
- CONVALLARIA L. 1735 (Liliaceae)
- C. majalis*, L.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944
- V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944
- V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- CONVOLVULUS ((Tourn.)) L. 1735 (Convolvulaceae)
- C. arvensis*, L.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- C. sepium*, L.  
V. anemone mosaic \*  
Hollings, M., 1957
- V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- C. tricolor*, L.  
V. anemone brown ring \*  
Hollings, M., 1958
- V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
- COOPERIA Herb. 1836 (Amaryllidaceae)
- C. spp.*  
V. narcissus mosaic  
Haasis, Frank A., 1939
- CORCHORUS ((Tourn.)) L. 1735 (Tiliaceae)
- C. trilocularis*, L.  
V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950
- COREOPSIS L. 1737 (Compositae)
- C. douglasii*, Hall  
V. chrysanthemum stunt  
Brierley, Philip, 1953
- V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- C. drummondii*, Torr. & Gray  
V. chrysanthemum stunt  
Brierley, Philip, 1953
- V. cucumber mosaic  
Wellman, F.L., 1935
- C. grandiflora*, Nutt.  
V. tobacco etch  
Holmes, Francis O., 1946
- C. lanceolata*, L.  
V. chrysanthemum stunt  
Brierley, Philip, 1953
- V. dahlia mosaic  
Brierley, Philip and Floyd F. Smith, 1950
- C. tinctoria*, Nutt.  
V. cucumber mosaic  
Wellman, F.L., 1935
- CORTADERIA Stapf 1897 (Gramineae)
- C. selloana*, (Schult.) Aschers. & Graebn.  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- CORYDALIS Vent. Choix, 19 1803, in nota;  
*C. lutea*, DC. (Fumariaceae)
- V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958

- COSMOS Cav. 1791 (Compositae)  
*C. bipinnatus*, Cav.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950  
 V. squash mosaic  
 Freitag, J.H., 1956  
*C. diversifolius*, Otto  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
*C. sulphureus*, Cav.  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- COTONEASTER Rupp. 1745 (Rosaceae)  
*C. franchetii*, Bois  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- CRASSINA Scopin 1758 (Compositae)  
*C. elegans*, Kuntze  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- CROCUS ((Tourn.)) L. 1735 (Iridaceae)  
*C. spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- CROTALARIA Dill. ex L. 1737 (Leguminosae)  
*C. capensis*, Jacq.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
*C. incana*, L.  
 V. papaw ring spot  
 Jensen, D.D., 1949  
*C. intermedia*, Kotschy  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
*C. juncea*, L.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
*C. mucronata*, Desv.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. tobacco mosaic  
 Das, C.R. and S.P. Raychaudhuri, 1953  
*C. retusa*, L.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. bean yellow mosaic  
 Zaumeyer, W.J., 1940  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*C. spectabilis*, Roth  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 Wellman, F.L., 1935  
 V. prunus A \*  
 Fulton, Robert W., 1957
- C. spectabilis*, Roth (cont.)  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. soybean mosaic  
 Conover, Robert A., 1948  
*C. spp.*  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*C. striata*, DC.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958
- CUCUMIS ((Tourn.)) L. 1735 (Cucurbitaceae)  
*C. anguria*, L.  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
*C. melo*, L.  
 V. beet curly top  
 Carsner, E., 1919  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. canna mosaic  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. (cucumber) O.S.C. isolate 606 \*  
 Porter, Clark A. and Frank P. McWhorter, 1951  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
*C. prophetarum*, L.  
 V. prunus B \*  
 Fulton, Robert W., 1957  
*C. sativus*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. barley stripe mosaic  
 McKinney, H.H., 1953  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. bean common mosaic  
 Ainsworth, G.C., 1940  
 Doolittle, S.P. and W.W. Gilbert, 1918  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Ainsworth, G.C., 1940  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. beet yellow wilt  
 Bennett, C.W. and Carlos Munck, 1946  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938

- Cucumis sativus*, L. (cont.)
- V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
  - V. canna mosaic  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
Celino, M.S. and G.O. Ocfemia, 1941
  - V. carnation mosaic  
Brierley, Philip and Floyd F. Smith, 1955, 1957
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951
  - V. celery mosaic  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
  - V. chilli (pepper) mosaic  
Dale, W. T., 1954
  - V. chilli veinbanding  
Simons, John N., 1956
  - V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
  - V. chrysanthemum latent \*  
Hollings, M., 1957
  - V. chrysanthemum stunt  
Keller, John R., 1953
  - V. cineraria mosaic  
Jones, Leon K., 1944
  - V. citrus tristeza  
Knorr, L.C., 1956
  - V. cowpea mosaic  
Anderson, C.W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W. T., 1949  
McLean, D.M., 1941  
Yu, T.F., 1946
  - V. cucumber mosaic  
McWhorter, F.P. and H.H. Millsap, 1954  
Peterson, Paul D. and H.H. McKinney, 1938
  - V. dahlia mosaic  
Brierley, Philip and Floyd F. Smith, 1950
  - V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
  - V. eggplant mosaic  
Ferguson, I.A.C., 1951
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. gladiolus \*  
Snow, Gordon F., 1955
  - V. lettuce mosaic  
Ainsworth, G.C., 1940  
Ainsworth, G.C. and L. Ogilvie, 1939
  - V. lucerne mosaic  
Berkeley, G.H., 1947  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1949  
Zaunmeyer, W.J., 1938, 1953
  - V. nicotiana glutinosa root necrosis \*  
Cetas, Robert C. and A. Frank Ross, 1952
  - V. nothoscordum mosaic  
McKinney, H.H., 1950
  - V. onion yellow dwarf  
Henderson, D.M., 1953  
Henderson, W.J., 1935
  - V. orchid (odontoglossum) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
  - V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952
  - V. papaw mosaic  
Adsuar, Jose, 1950
  - V. papaw ring spot  
Jensen, D.D., 1949
  - V. pea enation mosaic  
Ainsworth, G.C., 1940  
Simons, John N., 1954
  - V. pea mosaic  
Ainsworth, G.C., 1940  
Murphy, D.M. and W.H. Pierce, 1937
  - V. pea streak  
Zaunmeyer, W.J., 1938
  - V. pea wilt  
Johnson, Folke, 1942
  - V. pea yellow mosaic \*  
Ainsworth, G.C., 1940
  - V. pelargonium ring spot \*  
Hollings, M., 1957
- C. sativus*, L. (cont.)
- V. pokeweed mosaic \*  
Doolittle, S.P. and W.W. Gilbert, 1918
  - V. potato A  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato Y  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bald, J.G. and D.O. Norris, 1945  
Johnson, E.M., 1930  
Roque, Arturo and Jose Adsuar, 1941
  - V. potato yellow dwarf  
Hougas, R.W., 1951
  - V. primula mosaic  
Severin, Henry H.P. and C.M. Tompkins, 1950  
Tompkins, C.M. and John T. Middleton, 1941
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. red clover vein mosaic  
Hagedorn, D.J. and E.W. Hanson, 1951  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Roberts, D.A., 1957
  - V. spinach yellow dwarf  
Severin, Henry H.P. and Donald H. Little, 1947
  - V. sweet potato feathery mottle  
Doolittle, S.P. and L.L. Harter, 1945  
Webb, Raymon E., 1954
  - V. sweet potato mosaic  
Borders, H.I. and T.J. Ratcliff, 1954
  - V. teasel mosaic  
Stoner, Warren N., 1951
  - V. tobacco coarse etch  
Johnson, E.M., 1930
  - V. tobacco etch  
Anderson, C.W., 1954  
Bennett, C.W., 1944  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - V. tobacco green mosaic  
Peterson, Paul D. and H.H. McKinney, 1938
  - V. tobacco mosaic  
Ainsworth, G.C., 1933, 1937  
Doolittle, S.P. and F.S. Beecher, 1942  
Doolittle, S.P. and W.W. Gilbert, 1918  
Holmes, Francis O., 1941, 1946  
Jarrett, Phyllis H., 1930  
Johnson, E.M., 1930  
Peterson, Paul D. and H.H. McKinney, 1938  
Stover, W.G. and M.T. Vermillion, 1933
  - V. tomato aspermy  
Blencowe, J.W. and John Caldwell, 1949
  - V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt  
Ainsworth, G.C., 1940
  - V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
- CUCURBITA ((Tourn.)) L. 1735 (Cucurbitaceae)  
(PEPO) ((Tourn.)) L. 1735
- C. lagenaria*, L.
- V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950
  - V. papaw mosaic  
Adsuar, Jose, 1950
- C. maxima*, Dcne.
- V. dodder latent mosaic  
Bennett, C.W., 1944
  - V. orchid (cymbidium) mosaic  
Jensen, D.D., 1951
  - V. orchid (odontoglossum) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
  - V. peach ring spot  
Hobbs, Gordon A., 1951

- Cucurbita maxima*, Dcne. (cont.)
- V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Holmes, Francis O., 1946
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
- C. moschata*, Dcne.
- V. (cucumber) O.S.C. isolate 606 \*
    - Porter, Clark A. and Frank P. McWhorter, 1951
  - V. onion yellow dwarf
    - Henderson, W.J., 1935
  - V. papaw mosaic
    - Adsuar, Jose, 1950
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
- C. pepo*, L.
- V. beet mosaic
    - Pound, Glenn S., 1947
  - V. celery mosaic
    - Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. chilli (pepper) mosaic
    - Dale, W.T., 1954
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. cowpea mosaic
    - Capoor, S.P. and P.M. Varma, 1956
  - V. cucumber green mottle mosaic
    - Ainsworth, G.C., 1935
  - V. dodder latent mosaic
    - Bennett, C.W., 1944
  - V. eggplant mosaic
    - Dale, W.T., 1954
    - Ferguson, I.A.C., 1951
  - V. filaree red leaf
    - Frazier, Norman W., 1951
  - V. maize leaf fleck
    - Stoner, Warren N., 1952
  - V. orchid (vanda) mosaic
    - Murakishi, Harry H., 1952
  - V. papaw mosaic
    - Adsuar, Jose, 1950
  - V. primula mosaic
    - Severin, Henry H.P. and C.M. Tompkins, 1950
  - V. prunus G \*
    - Fulton, Robert W., 1957
  - V. red currant ring spot
    - Klessner, P.J., 1951
  - V. spinach yellow dwarf
    - Severin, Henry H.P. and Donald H. Little, 1947
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. sweet potato mosaic
    - Borders, H.I. and T.J. Ratcliff, 1954
  - V. teasel mosaic
    - Stoner, Warren N., 1951
  - V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Holmes, Francis O., 1946
  - V. tomato aspermy
    - Hollings, M., 1955
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
- C. pepo* var. *melopepo*, (L.) Alef. (condensa, Bailey)
- V. chilli veinbanding
    - Simons, Jons N., 1956
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
- CUSCUTA ((Tourn.)) L. 1735 (Convolvulaceae)
- C. americana*, L.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
- C. californica*, Choisy
- V. beet curly top
    - Bennett, C.W., 1944, 1951, 1955
    - Lackey, C.F., 1941
    - Lackey, C.F. and C.W. Bennett, 1949
  - V. californica, Choisy (cont.)
    - V. beet mosaic
      - Bennett, C.W., 1944
    - V. beet rosette \*
      - Bennett, C.W. and James E. Duffus, 1957
    - V. beet yellow vein disease \*
      - Bennett, C.W., 1944, 1956
    - V. citrus psorosis
      - Bennett, C.W., 1944
    - V. cucumber mosaic
      - Bennett, C.W., 1940, 1944
    - V. dodder latent mosaic
      - Bennett, C.W., 1944
    - V. peach mosaic
      - Bennett, C.W., 1944
    - V. tobacco etch
      - Bennett, C.W., 1944
    - V. tobacco mosaic
      - Bennett, C.W., 1944
    - V. tomato ring spot
      - Bennett, C.W., 1944
    - V. tomato spotted wilt
      - Bennett, C.W., 1944
    - V. turnip mosaic
      - Bennett, C.W., 1944
  - C. campestris*, Yuncker
    - V. apple mosaic
      - Yarwood, C.E., 1955
    - V. asclepias yellows \*
      - Kunkel, L.O., 1950
    - V. aster yellows
      - Brierley, Philip and Floyd F. Smith, 1957
      - Fulton, J.P., 1957
      - Johnson, Folke, 1941
    - V. bayberry yellows
      - Raychaudhuri, S.P., 1952, 1953
    - V. beet curly top
      - Bennett, C.W., 1944
      - Johnson, Folke, 1941
    - V. beet mosaic
      - Bennett, C.W., 1944
    - V. beet rosette \*
      - Bennett, C.W. and James E. Duffus, 1957
    - V. beet yellow vein disease \*
      - Bennett, C.W., 1944, 1956
    - V. beet yellow wilt
      - Bennett, C.W. and Carlos Munck, 1946
    - V. citrus psorosis
      - Bennett, C.W., 1944
    - V. citrus tristeza
      - Bennett, C.W. and A.S. Costa, 1949
    - V. clover witches' broom \*
      - Frazier, N.W. and A.F. Posnette, 1957
    - V. cucumber green mottle mosaic
      - Johnson, Folke, 1941
    - V. cucumber mosaic
      - Bennett, C.W., 1944
      - Costa, A.S., 1944
    - V. cucurbit mosaic \*
      - Johnson, Folke, 1941
    - V. dodder latent mosaic
      - Bennett, C.W., 1944
    - V. lilac witches' broom
      - Brierley, Philip, 1955
    - V. lucerne mosaic
      - Kreitlow, K.W. and W.C. Price, 1949
    - V. lucerne witches' broom
      - Helms, Katie, 1957
      - Kunkel, L.O., 1952
    - V. pea mottle
      - Johnson, Folke, 1942
    - V. pea wilt
      - Johnson, Folke, 1942
    - V. peach mosaic
      - Bennett, C.W., 1944
    - V. peach western X disease
      - Weathers, Lewis G. and George W. Cochran, 1950
    - V. peach X disease
      - Hildebrand, E.M., 1953
      - Kunkel, L.O., 1944
    - V. potato stem mottle
      - Van der Want, J.P.H., 1955
    - V. rose mosaic
      - Fulton, Robert W., 1952

- Cuscuta campestris*, Yuncker (cont.)
- V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. strawberry mottle
    - Demaree, J.B. and C.P. Marcus, 1951
  - V. tobacco etch
    - Bennett, C.W., 1944
  - V. tobacco mosaic
    - Bennett, C.W., 1944
    - Cochran, G.W., 1946
    - Costa, A.S., 1944
    - Johnson, Folke, 1941
  - V. tobacco ring spot
    - Johnson, Folke, 1941
  - V. tomato aspermy
    - Brierley, Philip and Floyd F. Smith, 1957
  - V. tomato big bud
    - Helms, Katie, 1957
    - Hill, A.V. and M. Mandryk, 1954
    - Kunkel, L.O., 1951
  - V. tomato bushy stunt
    - Johnson, Folke, 1941
  - V. tomato ring spot
    - Bennett, C.W., 1944
  - V. tomato spotted wilt
    - Bennett, C.W., 1944
  - V. turnip mosaic
    - Bennett, C.W., 1944
  - V. vaccinium false blossom
    - Costa, A.S., 1944
    - Kunkel, L.O., 1943, 1945
- C. *epithymum*, Murr.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
- C. *europaea*, L.
- V. clover witches' broom \*
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
- C. *gronovii*, Willd.
- V. chrysanthemum stunt
    - Keller, John R., 1953
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. strawberry mottle
    - Smith, Harlan E. and J. Duain Moore, 1952
- C. *indecora*, Choisy
- V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
- C. *reflexa*, Roxb.
- V. hibiscus yellow vein mosaic
    - Capoor, S.P. and P.M. Varma, 1950
- C. *sandwichiana*, Choisy
- V. cucumber mosaic
    - Sakimura, K., 1947
- C. spp.
- V. aster yellows
    - Self, R.L. and H.M. Darling, 1949
  - V. raspberry streak
    - Horn, Norman L., 1948
  - V. vaccinium ring spot
    - Hilborn, M.T. and Reiner Bonde, 1956
  - V. vinca yellows \*
    - Maramorosch, Karl, 1957
- C. *subinclusa*, Dur. & Hilg.
- V. apple mosaic
    - Yarwood, C.E., 1955
    - Yarwood, C.E. and H.E. Thomas, 1954
  - V. bayberry yellows
    - Raychaudhuri, S.P., 1953
  - V. beet curly top
    - Bennett, C.W., 1940, 1944
    - Fulton, Robert W., 1955
    - Giddings, N.J., 1947
    - Lackey, C.F. and C.W. Bennett, 1949
  - V. beet mosaic
    - Bennett, C.W., 1940, 1944
  - V. beet rosette \*
    - Bennett, C.W. and James E. Duffus, 1957
  - V. beet yellow vein disease \*
    - Bennett, C.W., 1944, 1956
- C. *subinclusa*, Dur. & Hilg. (cont.)
- V. beet yellow wilt
    - Bennett, C.W. and Carlos Munck, 1946
  - V. citrus psorosis
    - Bennett, C.W., 1944
  - V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
  - V. clover witches' broom \*
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. cucumber mosaic
    - Bennett, C.W., 1940, 1944
  - V. dodder latent mosaic
    - Bennett, C.W., 1944
  - V. lilac witches' broom
    - Brierley, Philip, 1955
  - V. peach mosaic
    - Bennett, C.W., 1944
  - V. peach western X disease
    - Weathers, Lewis G. and George W. Cochran, 1950
  - V. peach X disease
    - Slack, Derald A., 1952
  - V. potato stem mottle
    - Van der Want, J.P.H., 1955
  - V. raspberry streak
    - Horn, N.L. and M.W. Woods, 1949
  - V. rose mosaic
    - Fulton, Robert W., 1952
  - V. strawberry crinkle
    - Smith, Harlan E. and J. Duain Moore, 1952
  - V. strawberry green petal
    - Frazier, N.W. and A.F. Posnette, 1957
  - V. strawberry mottle
    - Smith, Harlan E. and J. Duain Moore, 1952
  - V. strawberry, type 2 \*
    - Smith, Harlan E. and J. Duain Moore, 1952
  - V. tobacco etch
    - Bennett, C.W., 1944
  - V. tobacco mosaic
    - Bennett, C.W., 1940, 1944
  - V. tomato ring spot
    - Bennett, C.W., 1944
  - V. tomato spotted wilt
    - Bennett, C.W., 1944
  - V. turnip mosaic
    - Bennett, C.W., 1944
  - V. vaccinium stunt
    - Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955
  - V. vinca yellows \*
    - Maramorosch, Karl, 1956
- CYAMOPSIS DC. 1825 (Leguminosae)
- C. *psoraloides*, DC.
- V. pigeon pea sterility mosaic
    - Capoor, S.P., 1952
- C. *tetragonoloba*, (L.) Taub.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. chilli (pepper) mosaic
    - Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. hydrangea ring spot
    - Brierley, Philip and Paul Lorentz, 1956, 1957
  - V. prunus B \*
    - Fulton, Robert W., 1957
- CYCLAMEN ((Tourn.)) L. 1735 (Primulaceae)
- C. *persicum*, Mill. (C. *indicum*, Auct.)
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. orchid (cymbidium) mosaic
    - Jensen, D.D., 1951
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
- CYMBIDIUM Sw. 1799 (Orchidaceae)
- C. spp.
- V. orchid (odontoglossum) ring spot
    - Jensen, D.D. and A. Herbert Gold, 1951
- CYNARA Vaill. ex L. 1737 (Compositae)
- C. *cardunculus*, L.
- V. chrysanthemum stunt
    - Brierley, Philip, 1953

- Cynara cardunculus*, L. (cont.)  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950
- C. scolymus*, L.  
 V. orchid (*odontoglossum*) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951
- CYNODON Rich. 1805 (Gramineae)  
*C. dactylon*, (L.) Pers.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- CYNOGLOSSUM ((Tourn.)) L. 1735 (Boraginaceae)  
*C. amabile*, Stapf & Drum.  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946
- CYPERUS ((Mich.)) L. 1735 (Cyperaceae)  
*C. alternifolius*, L.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- C. compressus*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- C. esculentus*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- CYPHOMANDRA Mart. ex Sendtn. 1845 (Solanaceae)  
*C. betacea*, (Cav.) Sendt.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- CYPRIPEDIUM L. 1735 (Orchidaceae)  
*C. spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- DACTYLIS L. 1742 (Gramineae)  
*D. glomerata*, L.  
 V. maize streak  
 Finley, A.M., 1954  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. wheat streak mosaic  
 Finley, A.M., 1957  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- DAHLIA Cav. 1791 (Compositae)  
*D. merckii*, Lehm.  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- D. pinnata*, Cav.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellow net  
 McLean, D.M., 1952  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- D. pinnata*, Cav. (cont.)  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955
- D. spp.*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- D. variabilis*, (Willd.) Desf.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1950  
 V. red currant ring spot  
 Klessner, P.J., 1951
- DAPHNE Tourn. ex L. 1735 (Thymeleaceae)  
*D. cneorum*, L.  
 V. cucumber mosaic  
 Milbrath, J.A. and Roy A. Young, 1956
- DATURA L. 1735 (Solanaceae)  
*D. aegyptiaca*, Vesl.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951
- D. alba*, Nees  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- D. bernhardii*, Lund.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- D. chlorantha*, Hook.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- D. fastuosa*, L.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 V. tobacco mosaic  
 Allard, H.A., 1916
- D. ferox*, L.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- D. innoxia*, Mill.  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. pigeon pea sterility mosaic  
 Capoor, S.P., 1952
- D. metel*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- D. meteloides*, DC.  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. orchid (*cymbidium*) mosaic  
 Jensen, D.D. and A.H. Gold, 1955  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953

- Datura meteloides*, DC. (cont.)
- V. potato Y
    - Darby, J.F., R.H. Larson and J.C. Walker, 1951
  - V. tobacco ring spot
    - Cooper, W.E., 1949
- D. spp.
- V. beet curly top
    - Bennett, C.W. and A.S. Costa, 1949
  - V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
    - Knorr, L.C., 1956
  - V. cucumber mosaic
    - Adsuar, Jose and A. Cruz Miret, 1950
- D. stramonium, L.
- V. abutilon infectious variegation
    - Bird, Julio, 1958
  - V. alsike clover mosaic
    - Zaumeyer, W.J., 1940
  - V. anemone brown ring \*
    - Hollings, M., 1958
  - V. anemone mosaic \*
    - Hollings, M., 1957
  - V. bayberry yellows
    - Raychaudhuri, S.P., 1953
  - V. bean pod mottle
    - Zaumeyer, W.J. and H. Rex Thomas, 1948
  - V. bean southern mosaic
    - Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic
    - Hagedorn, D.J. and J.C. Walker, 1950, 1954
    - Thomas, H. Rex and W.J. Zaumeyer, 1953
    - Zaumeyer, W.J., 1940
  - V. bean yellow stipple
    - Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. beet curly top
    - Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946
  - V. beet mosaic
    - Bennett, C.W., 1949
    - Severin, Henry H.P. and Roger M. Drake, 1947
  - V. beet yellow net
    - Sylvester, Edward S., 1948
  - V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. broad bean mottle
    - Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
  - V. cabbage black ring spot
    - Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cabbage ring necrosis
    - Larson, R.H. and J.C. Walker, 1941
  - V. cacao swollen shoot
    - Tinsley, T.W. and A.L. Wharton, 1958
  - V. cauliflower mosaic
    - Alvarez-Garcia, L.A., 1951
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. celery mosaic
    - Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. chilli veinbanding
    - Simons, John N., 1956
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. chrysanthemum ring spot
    - Brierley, Philip and Floyd F. Smith, 1955
  - V. citrus tristeza
    - Bennett, C.W. and A.S. Costa, 1949
  - V. cowpea mosaic
    - McLean, D.M., 1941
    - Yu, T.F., 1946
  - V. cucumber green mottle mosaic
    - Ainsworth, G.C., 1935
  - V. cucumber mosaic
    - Burnett, G., 1934
    - Harter, L.L., 1938
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - McKnight, T., 1953
    - Vasudeva, R. Sahai and T.B. Lal, 1943
  - V. dodder latent mosaic
    - Bennett, C.W., 1944
  - V. hydrangea ring spot
    - Brierley, Philip and Paul Lorentz, 1957
  - D. stramonium, L. (cont.)
    - V. lettuce mosaic
      - Ainsworth, G.C. and L. Ogilvie, 1939
    - V. muskmelon mosaic
      - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - V. nicotiana glutinosa root necrosis \*
      - Cetas, Robert C. and A. Frank Ross, 1952
    - V. nothoscordum mosaic
      - McKinney, H.H., 1950
    - V. onion yellow dwarf
      - Henderson, D.M., 1953
    - V. orchid (odontoglossum) ring spot
      - Jensen, D.D. and A. Herbert Gold, 1951
    - V. papaw mosaic
      - Adsuar, Jose, 1950
    - V. pea mottle
      - Johnson, Folke, 1942
    - V. pea streak
      - Zaumeyer, W.J., 1938
    - V. pea wilt
      - Johnson, Folke, 1942
    - V. pokeweed mosaic \*
      - Allard, H.A., 1918
    - V. potato spindle tuber
      - Goss, R.W., 1931
    - V. potato Y
      - Anderson, C.W. and M.K. Corbett, 1957
      - Bagmall, R.H., R.H. Larson and J.C. Walker, 1956
      - Bald, J.G. and D.O. Norris, 1945
      - Bawden, F.C. and B. Kassanis, 1951
      - Bawden, F.C. and F.M.L. Sheffield, 1944
      - Cockerham, George, 1943
      - Conover, Robert A. and Robert W. Fulton, 1953
      - Dennis, R.W.G., 1939
      - Dykstra, T.P., 1933
      - Johnson, E.M., 1930
      - Jones, Leon K. and C.L. Vincent, 1937
      - Koch, K.L., 1933
      - Roque, Arturo and Jose Adsuar, 1941
      - Smith, Kenneth M. and R.W.G. Dennis, 1940
      - Vasudeva, R. Sahai and T.B. Lal, 1945
    - V. primula mosaic
      - Tompkins, C.M. and John T. Middleton, 1941
    - V. prunus A \*
      - Fulton, Robert W., 1957
    - V. prunus G \*
      - Fulton, Robert W., 1957
    - V. radish mosaic
      - Tompkins, C.M., 1939
    - V. red clover vein mosaic
      - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - V. spinach yellow dwarf
      - Severin, Henry H.P. and Donald H. Little, 1947
    - V. squash mosaic
      - Freitag, J.H., 1956
      - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - V. stone fruit \*
      - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
    - V. sweet potato feathery mottle
      - Doolittle, S.P. and L.L. Harter, 1945
    - V. tobacco leaf curl
      - Bird, Julio, 1957
    - V. tobacco ring spot
      - Fenne, S.B., 1931
    - V. tomato aspermy
      - Blencowe, J.W. and John Caldwell, 1949
    - V. turnip mosaic
      - Tompkins, C.M., 1938, 1939
      - Tompkins, C.M. and H. Rex Thomas, 1938
      - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
    - V. turnip yellow mosaic
      - Broadbent, L. and G.D. Heathcote, 1958
    - V. watermelon mosaic
      - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - V. Wisconsin pea streak
      - Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - D. stramonium var. *chalybea*, Koch \*
    - V. potato Y
      - Sakimura, K., 1953
  - D. stramonium var. *tatula*, (L.) Torr.
    - V. beet yellows
      - Roland, G. and J. Tahon, 1961



- Datura stramonium*, L., var. *tatula*, (L.) Torr. (cont.)  
 V. potato Y  
 Darby, J.F., R.H. Larson and J.C. Walker, 1951  
 Dykstra, T.P., 1933  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954
- DAUCUS ((Tourn.)) L. 1735 (Umbelliferae)  
 D. *carota*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 D. *carota* var. *sativa*, DC.  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- DELPHINIUM Tourn. ex L. 1735 (Ranunculaceae)  
 D. *ajacis*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Tompkins, C.M., 1928, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 D. *cultorum*, Voss  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 D. *grandiflorum*, L.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 D. hybrid  
 V. beet curly top  
 Severin, Henry H.P., 1942  
 D. hybridum, Steph.  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 D. spp.  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. squash mosaic  
 Freitag, J.H., 1956
- DENDROPOGON Raf. 1825 (Bromeliaceae)  
 D. *usneoides*, (L.) Raf.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- DESCHAMPSIA Beauv. 1812 (Gramineae)  
 D. *caespitosa*, (L.) Beauv.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 D. *danthonioides*, (Trin.) Munro  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- DESMODIUM Desv. 1813 (Leguminosae)  
 D. *incanum*, DC.  
 V. cucumber mosaic  
 Anderson, C.W., 1955
- DESPLATZIA Bocquill. 1866-67 (Tiliaceae)  
 D. *dewevrei*, (DeWild. & Th. Dur.) Burret \*  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 D. *lutea*, A. Chev.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- DIANTHUS L. 1735 (Caryophyllaceae)  
 D. *barbatus*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Kassanis, B., 1955  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 D. *caryophyllus*, L.  
 V. aster yellows  
 Smith, Floyd F. and Philip Brierley, 1953  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. citrus tristeza  
 Knorr, L.C., 1956  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco necrosis  
 Kassanis, B., 1955  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1939

- Dianthus chinensis*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- D. deltooides*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- D. plumarius*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- D. superbus*, L.  
 V. bean pod mottle  
 Zaunmeyer, W.J. and H. Rex Thomas, 1948
- DIGITALIS** ((Tourn.)) L. 1735 (Scrophulariaceae)
- D. purpurea*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946
- DIGITARIA** Heist. ex Adans. 1763 (Gramineae)
- D. horizontalis*, Willd.  
 V. sugarcane streak  
 Storey, H.H. and A.P.D. McClean, 1930
- D. macrobachne*, (Presl) Henr. \*  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- D. sanguinalis*, (L.) Scop.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956
- DIMORPHOTHECA** Vaill. ex L. 1735 (Compositae)
- D. aurantiaca*, DC.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- D. sinuata*, DC.  
 V. squash mosaic  
 Freitag, J.H., 1956
- DIOSCOREA** Plum. ex L. 1737 (Dioscoreaceae)
- D. alata*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- D. bulbifera*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- DIPLACUS** Nutt. 1838 (Scrophulariaceae)
- D. aurantiacus*, Hort. ex Vilmorin's Blumeng  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- DISTICHLIS** Raf. 1819 (Gramineae)
- D. spicata*, (L.) Greene  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- DITHYREA** Harv. 1845 (Cruciferae)
- D. wislizenii*, Engelm.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- DOLICHOS** L. 1737 (Leguminosae)
- D. biflorus*, L.  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956
- D. lablab*, L.  
 V. bean common mosaic  
 Nelson, Ray, 1932  
 Reddick, D. and V.B. Stewart, 1919  
 Zaunmeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Zaunmeyer, W.J. and H.H. Fisher, 1953  
 Zaunmeyer, W.J. and B.L. Wade, 1935  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. lucerne mosaic  
 Zaunmeyer, W.J. and B.L. Wade, 1935  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. red clover mosaic \*  
 Zaunmeyer, W.J. and B.L. Wade, 1935  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- D. lignosus*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- DOMBEYA** Cav. 1787 (Sterculiaceae)
- D. buettneri*, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- DORONICUM** Tourn. ex L. 1735 (Compositae)
- D. caucasicum*, Bieb.  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950
- D. cordatum*, Sch. Bip.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- DRACAENA** Vand. 1762 (Liliaceae)
- D. fragans*, Ker-Gawl.  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- D. sanderiana*, Hort.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944

- ECBALLIUM A. Rich. 1824 (Cucurbitaceae)  
*E. elaterium*, A. Rich  
 V. cucumber mosaic  
 Jagger, I. C., 1918
- ECHINOCHLOA Beauv. 1812 (Gramineae)  
*E. crus-galli*, (L.) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- E. spp.*  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- ECHINOCYSTIS Torr. & Gray 1840 (Cucurbitaceae)  
 (MICRAMPELIS) Raf. 1808  
*E. lobata*, (Michx.) Torr. & Gray (Micrampelis  
*lobata*, Greene)  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- ECHINOPS L. 1737 (Compositae)  
*E. vitro*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- ECHIUM Tourn. ex L. 1737 (Boraginaceae)  
*E. vulgare*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946
- ECLIPTA L. 1771 (Compositae)  
*E. alba*, Hassk.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. hibiscus yellow vein mosaic  
 Capoor, S. P. and P. M. Varma, 1950
- ELAEIS Jacq. 1763 (Palmaceae)  
*E. guineensis*, Jacq.  
 V. cacao swollen shoot  
 Tinsley, T. W. and A. L. Wharton, 1958
- ELAEOPHORBLA Stapf 1906 (Euphorbiaceae)  
*E. drupifera*, Stapf  
 V. cacao swollen shoot  
 Tinsley, T. W. and A. L. Wharton, 1958
- ELEUSINE Gaertn. 1788 (Gramineae)  
*E. coracana*, (L.) Gaertn.  
 V. sugarcane mosaic  
 Brandes, E. W. and Peter J. Klaphaak, 1923
- E. indica*, (L.) Gaertn.  
 V. maize streak  
 Storey, H. H. and A. P. D. McClean, 1930  
 V. panicum mosaic \*  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
 V. sugarcane streak  
 Storey, H. H. and A. P. D. McClean, 1930
- ELYMUS L. 1748 (Gramineae)  
*E. canadensis*, L.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- E. condensatus*, Presl  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- E. giganteus*, Vahl  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- E. glaucus*, Buckl.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953
- E. junceus*, Fisch.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- E. triticoides*, Buckl.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- EMILIA Cass. 1817 (Compositae)  
*E. flammaea*, Cass.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- E. sonchifolia*, Hort.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. potato Y  
 Sakimura, K., 1953  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942
- EPILOBIUM Dill. ex L. 1735 (Onagraceae)  
*E. angustifolium*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- E. montanum*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957
- E. paniculatum*, Nutt.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- EQUISETUM ((Tourn.)) L. 1753 (Equisetaceae)  
*E. arvense*, L.  
 V. beet ring spot \*  
 Harrison, B. D., 1957  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ERAGROSTIS Host 1809 (Gramineae)  
*E. amabilis*, (L.) Wight & Arn.  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950
- E. cilianensis*, (All.) Link (E. major, Host)  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952
- EREMOCARPUS Benth. 1844 (Euphorbiaceae)  
*E. setigerus*, Benth.  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- ERIGERON L. 1737 (Compositae)  
*E. annuus*, (L.) Pers.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S. P.  
 Doolittle, 1955
- E. bonariensis*, L.  
 V. beet curly top  
 Bennett, C. W. and A. S. Costa, 1949  
 V. citrus tristeza  
 Bennett, C. W. and A. S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A. S. and C. W. Bennett, 1950
- E. canadensis*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. peach rosette  
 McClintock, J. A., 1931  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S. P.  
 Doolittle, 1955
- E. speciosus*, DC.  
 V. tobacco etch  
 Holmes, Francis O., 1946

- Erigeron speciosus*, DC. (cont.)  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942  
*E. spp.*  
 V. cucumber mosaic  
 Wellman, F. L., 1935
- ERIOCHLOA** H. B. & K. 1815 (Gramineae)  
*E. subglabra*, Hitchcock  
 V. sugarcane mosaic  
 Chardon, C. E. and R. A. Veve, 1923
- ERIOGONUM** Michx. 1803 (Polygonaceae)  
*E. fasciculatum*, Benth.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Bennett, C. W., 1944  
 V. dodder latent mosaic  
 Bennett, C. W., 1944
- ERODIUM** L'Herit. 1787 (Geraniaceae)  
*E. cicutarium*, (L.) L'Herit.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*E. moschatum*, L'Herit.  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. orchid (cymbidium) mosaic  
 Jensen, D. D., 1951
- ERYSIMUM** ((Tourn.)) L. 1735 (Cruciferae)  
*E. cheiranthoides*, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954  
*E. perofskianum*, Fisch. & Mey.  
 V. cauliflower mosaic  
 Tompkins, C. M., 1937  
*E. spp.*  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942
- ERYTHRONIUM** L. 1735 (Liliaceae)  
*E. spp.*  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ERYTHROPSIS** Endl. \* (Sterculiaceae)  
*E. barteri*, (Mast.) Ridley  
 V. cacao swollen shoot  
 Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950
- ESCHSCHOLTZIA** Cham. 1820 (Papaveraceae)  
**(ESCHSCHOLZIA)** Cham. 1820  
*E. californica*, Cham.  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 V. squash mosaic  
 Freitag, J. H., 1956
- EUCHLAENA** Schrad. 1832 (Gramineae)  
*E. mexicana*, Schrad.  
 V. sugarcane mosaic  
 Brandes, E. W. and Peter J. Klaphaak, 1923
- EUPHORBIA** L. 1737 (Euphorbiaceae)  
*E. esula*, L.  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954  
*E. geniculata*, Ort.  
 V. hibiscus yellow vein mosaic  
 Capoor, S. P. and P. M. Varma, 1950  
*E. helioscopia*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*E. heterophylla*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942  
*E. maculata*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
*E. marginata*, Pursh  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
 V. squash mosaic  
 Freitag, J. H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*E. peplus*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*E. pilulifera*, L.  
 V. citrus tristeza  
 Bennett, C. W. and A. S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A. S. and C. W. Bennett, 1950  
*E. preslii*, Guss.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*E. prunifolia*, Jacq.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 Costa, A. S. and C. W. Bennett, 1950  
 V. beet curly top  
 Costa, A. S., 1952  
 V. citrus tristeza  
 Bennett, C. W. and A. S. Costa, 1949  
*E. pulcherrima*, Willd.  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
 V. sweet potato mosaic  
 Borders, H. I. and T. J. Ratcliff, 1954  
*E. serphyllifolia*, Pers.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- EVODIA** Forst. 1776 (Rutaceae)  
*E. spp.*  
 V. citrus tristeza  
 Knorr, L. C., 1956
- FAGOPYRUM** Tourn. ex Hall. 1742 (Polygonaceae)  
*F. esculentum*, Moench  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. beet curly top  
 Costa, A. S., 1952  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 V. stone fruit \*  
 Boyd, J. S., J. Duain Moore and G. W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946

- FEIJOA Berg 1858 (Myrtaceae)  
*F. sellowiana*, Berg  
 V. beet curly top  
 Giddings, N.J., 1944
- FERULA Tourn. ex L. 1737 (Umbelliferae)  
*F. communis*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- FESTUCA ((Tourn.)) L. 1735 (Gramineae)  
*F. elatior*, L.  
 V. wheat streak mosaic  
 Slykhuis, John T., 1955
- F. rubra*, L.  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952, 1955
- FICUS Tourn. ex L. 1735 (Moraceae)  
*F. elastica*, Roxb.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- F. exasperata*, Vahl  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950
- F. palmata*, Forsk.  
 V. fig mosaic  
 Condit, I.J. and W.T. Horne, 1933
- FOENICULUM Tourn. ex L. 1735 (Umbelliferae)  
*F. vulgare*, Mill., var. *dulce*, (Mill.) Fiori  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947
- FORSYTHIA Vahl 1805 (Oleaceae)  
*F. suspensa*, (Thunb.) Vahl  
 V. lilac witches' broom  
 Brierley, Philip, 1955
- FORTUNELLA Swingle 1915 (Rutaceae)  
*F. margarita*, (Lour.) Swingle on *Poncirus trifoliata*, Raf.  
 V. citrus tristeza  
 Olson, Edward O. and James R. McDonald, 1954
- FRAGARIA ((Tourn.)) L. 1735 (Rosaceae)  
*F. bracteata*, Heller  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951
- F. chiloensis*, Dcne., var. *ananassa*, Bailey  
 V. filaree red leaf  
 Frazier, Norman W., 1951
- F. vesca*, L.  
 V. beet yellow net  
 McLean, D.M., 1952
- FRANKENIA L. 1737 (Frankeniaceae)  
*F. grandifolia*, Cham. & Schlecht.  
 V. beet curly top  
 Severin, Henry H.P., 1939
- FRAXINUS Tourn. ex L. 1735 (Oleaceae)  
*F. pennsylvanica*, Marsh.  
 V. lilac witches' broom  
 Brierley, Philip, 1955
- FREESIA Klatt 1865-66 (Iridaceae)  
*F. hybrida*, Hort.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- F. refracta*, Klatt.  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951
- FUCHSIA ((Plum.)) L. 1735 (Onagraceae)  
*F. magellanica*, Lam.  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P.  
 Doolittle, 1955
- FUMARIA Tourn. ex L. 1735 (Papaveraceae)  
*F. officinalis*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958
- FUNTUMIA Stapf 1901 (Apocynaceae)  
*F. elastica*, Stapf  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA.  
 Todd, 1950
- GAILLARDIA Fouger. 1788 (Compositae)  
*G. aristata*, Pursh  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- G. pulchella*, Foug.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- G. pulchella* var. *picta*, Gray  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938
- V. chrysanthemum stunt  
 Brierley, Philip, 1953
- V. radish mosaic  
 Tompkins, C.M., 1939
- V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- GALEOPSIS L. 1735 (Labiatae)  
*G. speciosa*, Mill.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- G. tetrahit*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- GALINSOGA Ruiz & Pav. 1794 (Compositae)  
*G. parviflora*, Cav.  
 V. beet curly top  
 Costa, A.S., 1952  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- V. chrysanthemum stunt  
 Brierley, Philip, 1953
- V. tobacco etch  
 Holmes, Francis O., 1946
- GALIUM L. 1737 (Rubiaceae)  
*G. triflorum*, Michx.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- GALTONIA Decne. 1880 (Liliaceae)  
*G. candicans*, (Baker) Decne.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- GAZANIA Gaertn. 1791 (Compositae)  
*G. spp.*  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- GERANIUM ((Tourn.)) L. 1735 (Geraniaceae)  
*G. carolinianum*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- G. dissectum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961

- Geranium maculatum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- G. sanguineum*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- GERARDIA** L. 1737 (Scrophulariaceae)  
*G. divaricata*, Chapm.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- GERBERA** Gronov. 1737 (Compositae)  
*G. jamesonii*, Bolus  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941
- G. jamesonii* var. *transvaalensis*, Hort.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. turnip mosaic  
 Tompkins, C.M., 1939
- GEUM** L. 1735 (Rosaceae)  
*G. canadense*, Jacq.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- G. chiloense*, Balb.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato yellow net  
 Sylvester, Edward S., 1954  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- GILIA** Ruiz & Pav. 1794 (Polemoniaceae)  
*G. capitata*, Dougl.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- G. liniflora*, Benth.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- GLADIOLUS** ((Tourn.)) L. 1735 (Iridaceae)  
*G. hortulanus*, Bailey  
 V. iris spuria mosaic \*  
 Brierley, Philip and Floyd F. Smith, 1948
- G. lemoinei*, Hort.  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- G. spp.*  
 V. beet yellow net  
 McLean, D.M., 1952  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- GLEDITSIA** L. 1742 (Leguminosae)  
*G. triacanthos*, L.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957
- G. triacanthos*, L. (cont.)  
 V. prunus G \*  
 Fulton, Robert W., 1957
- GLORIOSA** L. 1735 (Liliaceae)  
*G. rothschildiana*, O' Brien  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- G. superba*, L.  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- GLYCINE** L. 1737 (Leguminosae)  
 (SOJA) Moench 1794  
 (SOYA) Benth. 1838  
*G. hispida*, Maxim.  
 V. cucumber mosaic  
 Vasudeva, R. Sahai and T.B. Lal, 1943  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- G. max*, (L.) Merr.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. barley stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. bean common mosaic  
 Snyder, W.C., 1942  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Baggett, James R., 1957  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Johnson, James, 1942  
 Zaumeyer, W.J., 1940, 1952  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Anderson, C.W., 1955  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Costa, A.S., 1944  
 Harter, L.L., 1938  
 Johnson, E.M., 1930  
 Wellman, F.L., 1935  
 Whipple, O.C. and J.C. Walker, 1941  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. lucerne mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lupine disease \*  
 Weimer, J.L., 1950  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. pea mosaic  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Murphy, D.M. and W.H. Pierce, 1937  
 Pierce, W.H., 1935  
 Stubbs, M.W., 1937  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. potato X  
 Johnson, E.M., 1930  
 V. potato Y  
 Johnson, E.M., 1930  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935

- Glycine max.*, (L.) Merr. (cont.)  
 V. red clover vein mosaic  
 Hagedorn, D.J. and E.W. Hanson, 1951  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Johnson, E.M., 1930  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*G. soya*, Sieb. & Zucc.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- GLYPHAEA Hook. f. 1848 (Tiliaceae)  
*G. brevis*, (Spreng.) Monachino  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- GNAPHALIUM L. 1737 (Compositae)  
*G. beneolens*, Davidson  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- GOETIA Spach 1835 (Onagraceae)  
*G. amoena*, G. Don  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*G. grandiflora*, Lindl.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- GOMPHRENA L. 1737 (Amaranthaceae)  
*G. globosa*, L.  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. carnation mosaic  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. carnation vein mottle  
 Kassanis, B., 1955  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. nicotiana glutinosa root necrosis \*  
 Cetas, Robert C. and A. Frank Ross, 1952  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. potato Y  
 Ross, A. Frank, 1950  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
 V. turnip rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958
- G. globosa*, L. (cont.)  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958  
*G. haageana*, Klotzsch  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*G. spp.*  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957
- GOSSYPIUM L. 1735 (Malvaceae)  
*G. arboreum*, L.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*G. barbadense*, L.  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950  
*G. hirsutum*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949, 1952  
 Giddings, N.J., 1944  
 Severin, Henry H.P., 1929  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 V. canna mosaic  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950  
 V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco leaf curl  
 Nariani, T.K., 1956  
 V. tobacco mosaic  
 Das, C.R. and S.P. Raychaudhuri, 1953  
 Holmes, Francis O., 1946  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1931  
*G. peruvianum*, Cav. x *G. barbadense*, L.  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
*G. spp.*  
 V. beet curly top  
 Carsner, E., 1919  
 V. canna mosaic  
 Celino, M.S. and G.O. Ocfemia, 1941  
 V. cucumber mosaic  
 Celino, Martin S., 1940
- GREWIA L. 1735 (Tiliaceae)  
*G. similis*, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- GRINDELIA Willd. 1807 (Compositae)  
*G. camporum*, Greene  
 V. beet curly top  
 Severin, Henry H.P., 1939

- GUAZUMA Plum. ex Adans. 1763 (Sterculiaceae)  
 G. ulmifolia, Lam.  
   V. cacao swollen shoot  
     Tinsley, T. W. and A. L. Wharton, 1958
- GUTIERREZIA Lag. 1816 (Compositae)  
 G. californica, Torr. & Gray  
   V. beet curly top  
     Severin, Henry H. P., 1939
- GYCOSMIS Correa 1805 (Rutaceae)  
 G. citrifolia, (Willd.) Lindley \*  
   V. citrus tristeza  
     Knorr, L. C., 1956
- GYPSOPHILA L. 1751 (Caryophyllaceae)  
 G. paniculata, L.  
   V. cabbage black ring spot  
     Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938  
   V. cucumber mosaic  
     Wellman, F. L., 1935  
   V. radish mosaic  
     Tompkins, C. M., 1939  
   V. turnip mosaic  
     Tompkins, C. M., 1938, 1939  
     Tompkins, C. M. and H. Rex Thomas, 1938
- HAPLOPAPPUS Endl. 1838 (Compositae)  
 H. venetus subsp. veronoioides \*  
   V. beet curly top  
     Severin, Henry H. P., 1939
- HARPULLIA Roxb. 1814 (Sapindaceae)  
 H. pendula, Planch. ex F. Muell.  
   V. cacao swollen shoot  
     Tinsley, T. W. and A. L. Wharton, 1958
- HAWORTHIA Duval 1809 (Liliaceae)  
 H. altilinea, Haw.  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944
- HEDYCHIUM Koen. 1783 (Zingiberaceae)  
 H. coronarium, Koen.  
   V. canna mosaic  
     Brierley, Philip and Floyd F. Smith, 1948  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
     Celino, Martin S., 1940  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944
- HEDYSARUM ((Tourn.)) L. 1735 (Leguminosae)  
 H. coronarium, L.  
   V. prunus B \*  
     Fulton, Robert W., 1957  
   V. prunus E \*  
     Fulton, Robert W., 1957
- HELENIUM L. 1753 (Compositae)  
 H. autumnale, L.  
   V. tomato aspermy  
     Hollings, M., 1955
- HELIANTHUS L. 1735 (Compositae)  
 H. annuus, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 H. cucumerifolius, Torr. & Gray  
   V. chrysanthemum stunt  
     Brierley, Philip, 1953  
 H. spp.  
   V. lucerne dwarf  
     Freitag, J. H., 1951  
 H. tuberosus, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961
- H. tuberosus, L. (cont.)  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946
- HELICHRYSUM Vaill. ex L. 1737 (Compositae)  
 H. brackatum, Andr. \*  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 H. bracteatum, Andr.  
   V. anemone mosaic \*  
     Hollings, M., 1957  
   V. chrysanthemum B (mild mosaic) \*  
     Hollings, M., 1957  
   V. chrysanthemum stunt  
     Brierley, Philip, 1953  
   V. cucumber mosaic  
     Wellman, F. L., 1935  
   V. tobacco etch  
     Holmes, Francis O., 1946
- HELIOPSIS Pers. 1807 (Compositae)  
 H. scabra, Dun.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946
- HELIOTROPIUM ((Tourn.)) L. 1735 (Boraginaceae)  
 H. corymbosum, Ruiz & Pav.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
 H. curassavicum, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 H. peruvianum, L.  
   V. cabbage black ring spot  
     Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938  
   V. cucumber mosaic  
     Wellman, F. L., 1935  
   V. radish mosaic  
     Tompkins, C. M., 1939  
   V. turnip mosaic  
     Tompkins, C. M., 1938, 1939  
     Tompkins, C. M. and H. Rex Thomas, 1938
- HEMEROCALLIS L. 1735 (Liliaceae)  
 H. flava, L.  
   V. cucumber mosaic  
     Wellman, F. L., 1935  
   V. orchid (vanda) mosaic  
     Murakishi, Harry H., 1952  
 H. fulva, L.  
   V. tomato aspermy  
     Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- HEMIZONIA DC. 1836 (Compositae)  
 H. virgata, A. Gray  
   V. beet curly top  
     Severin, Henry H. P., 1939
- HERACLEUM L. 1735 (Umbelliferae)  
 H. maximum, Bartr. (H. lanatum, Michx.)  
   V. celery mosaic  
     Freitag, Julius H. and Henry H. P. Severin, 1945
- HERMANNIA L. 1735 (Sterculiaceae)  
 H. candicans, Ait., var. discolor \*  
   V. cacao swollen shoot  
     Tinsley, T. W. and A. L. Wharton, 1958
- HERRANIA Goudot 1844 (Sterculiaceae)  
 H. balaensis, Preuss  
   V. cacao swollen shoot  
     Tinsley, T. W. and A. L. Wharton, 1958  
 H. spp.  
   V. cacao swollen shoot  
     Tinsley, T. W. and A. L. Wharton, 1958



- HESPERIS L. 1735 (Cruciferae)  
H. matronalis, L.  
V. beet mosaic  
Pound, Glenn S., 1947  
V. cauliflower mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. radish mosaic  
Tompkins, C.M., 1939  
V. squash mosaic  
Freitag, J.H., 1956  
V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
V. turnip mosaic  
LeBeau, Francis J. and J.C. Walker, 1945  
H. spp.  
V. cauliflower mosaic  
Caldwell, John and Ian W. Prentice, 1942
- HEVEA Aubl. 1775 (Euphorbiaceae)  
H. brasiliensis, Muell.-Arg. (Siphonia ridleyana, O.F. Cook)  
V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
- HIBISCUS L. 1737 (Malvaceae)  
H. esculentus, L.  
V. beet curly top  
Giddings, N.J., 1944  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958  
V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. cucumber green mottle mosaic  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952  
V. hibiscus yellows \*  
Hendrix, J. Walter, 1950  
V. malva yellow vein mosaic \*  
Costa, A.S. and James E. Duffus, 1957  
V. squash mosaic  
Freitag, J.H., 1956  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco leaf curl  
Nariani, T.K., 1956  
V. tobacco mosaic  
Holmes, Francis O., 1946  
V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942  
V. turnip mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
H. furcatus, Willd.  
V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950  
H. manihot, L.  
V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946  
H. rosa-sinensis, L.  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952  
V. tobacco leaf curl  
Nariani, T.K., 1956  
H. sabdariffa, L.  
V. hibiscus yellows \*  
Hendrix, J. Walter, 1950  
H. tiliaceus, L. (Pariti tiliaceum, (L.) St. Hil.)  
V. hibiscus yellows \*  
Hendrix, J. Walter, 1950  
H. youngianus, Gaudich.  
V. hibiscus yellows \*  
Hendrix, J. Walter, 1950
- HIERACIUM ((Tourn.)) L. 1735 (Compositae)  
H. argutum, Nutt.  
V. dodder latent mosaic  
Bennett, C.W., 1944  
H. scabrum, Michx.  
V. tobacco mosaic  
Holmes, Francis O., 1938
- HOLCUS L. 1735 (Gramineae)  
H. halepensis, L.  
V. sugarcane mosaic  
Brandes, E.W. and Peter J. Klapthaak, 1923  
H. lanatus, L.  
V. barley yellow dwarf  
Bruehl, G.W. and H.V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953  
H. sorghum, L.  
V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
H. sudanensis, Bailey  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946
- HORDEUM ((Tourn.)) L. 1735 (Gramineae)  
H. jubatum, L.  
V. agropyron mosaic  
Slykhuis, J.T., 1952  
V. wheat streak mosaic  
Slykhuis, J.T., 1952, 1955  
H. vulgare, L.  
V. agropyron mosaic  
Slykhuis, J.T., 1952  
V. beet curly top  
Carsner, E., 1919  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. cucumber mosaic  
McWhorter, F.P. and H.H. Millsap, 1954  
Wellman, F.L., 1935  
V. maize leaf fleck  
Stoner, Warren N., 1952  
V. panicum mosaic \*  
Sill, W.H., Jr. and R.C. Pickett, 1957  
V. soil-borne wheat mosaic  
McKinney, H.H., 1947  
V. sugarcane mosaic  
Brandes, E.W. and Peter J. Klapthaak, 1923  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946
- HOSTA Tratt. 1812 (Liliaceae)  
H. plantaginea, Aschers.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- HUNNEMANNIA Sweet 1828 (Papaveraceae)  
H. fumarifolia, Sweet  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946

- HYACINTHUS ((Tourn.)) L. 1735 (Liliaceae)  
 H. azureus, Baker  
   V. ornithogalum mosaic  
     Smith, Floyd F. and Philip Brierley, 1944  
 H. orientalis, L.  
   V. onion yellow dwarf  
     Henderson, W.J., 1935  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944
- HYMENOCALLIS Salisb. 1812 (Amaryllidaceae)  
 H. spp.  
   V. cucumber mosaic  
     Wellman, F.L., 1935
- HYOSCYAMUS ((Tourn.)) L. 1735 (Solanaceae)  
 H. albus, L.  
   V. muskmelon mosaic  
     Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 H. niger, L.  
   V. anemone brown ring \*  
     Hollings, M., 1958  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. muskmelon mosaic  
     Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
   V. red currant ring spot  
     Klessner, P.J., 1951  
   V. tomato aspermy  
     Blencowe, J.W. and John Caldwell, 1949
- HYPERICUM Tourn. ex L. 1737 (Hypericaceae)  
 H. boreale, (Britt.) Bickn.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946  
 H. perforatum, L.  
   V. stone fruit \*  
     Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- HYPOCHOERIS L. 1737 (Compositae)  
 H. radicata, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961
- HYPOXIS L. 1759 (Amaryllidaceae)  
 H. spp.  
   V. narcissus mosaic  
     Haasis, Frank A., 1939
- IBERIS Dill. ex L. 1735 (Cruciferae)  
 I. amara, L.  
   V. cauliflower mosaic  
     Caldwell, John and Ian W. Prentice, 1942  
 I. gibraltarica, L.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
 I. sempervirens, L.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
 I. spp.  
   V. citrus tristeza  
     Knorr, L.C., 1956  
 I. umbellata, L.  
   V. cucumber mosaic  
     Wellman, F.L., 1935  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. tobacco etch  
     Holmes, Francis O., 1946
- IMPATIENS Riv. ex L. 1735 (Balsaminaceae)  
 I. balsamina, L.  
   V. cucumber mosaic  
     Doolittle, S.P. and W.J. Zaumeyer, 1953  
     Wellman, F.L., 1935  
   V. euphorbia mosaic  
     Costa, A.S. and C.W. Bennett, 1950  
   I. balsamina, L. (cont.)  
   V. pea mosaic  
     Murphy, D.M. and W.H. Pierce, 1937  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
   V. tobacco necrosis  
     Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 I. biflora, Walt.  
   V. tobacco mosaic  
     Holmes, Francis O., 1938  
 I. spp.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
 I. sultanii, Hook. f. (or sometimes I. holstii, Engler & Warb.)  
   V. orchid (vanda) mosaic  
     Murakishi, Harry H., 1952  
   V. tobacco etch  
     Holmes, Francis O., 1946
- INCARVILLEA Juss. 1789 (Bignoniaceae)  
 I. variabilis, Batalin  
   V. tobacco etch  
     Holmes, Francis O., 1946
- INDIGOFERA L. 1737 (Leguminosae)  
 I. hirsuta, L.  
   V. prunus B \*  
     Fulton, Robert W., 1957
- IODANTHUS Torr. & Gray 1838 (Cruciferae)  
 I. pinnatifidus, (Michx.) Steud.  
   V. stone fruit \*  
     Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- IONOXALIS Small 1903 (Oxalidaceae)  
 I. violacea, Small  
   V. cucumber mosaic  
     Wellman, F.L., 1935
- IPOMOEA L. 1735 (Convolvulaceae)  
 I. batata, (L.) Lam.  
   V. abutilon infectious variegation  
     Bird, Julio, 1958  
   V. cucumber mosaic  
     Doolittle, S.P. and L.L. Harter, 1945  
   V. sweet potato feathery mottle  
     Doolittle, S.P. and L.L. Harter, 1945  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Doolittle, S.P. and L.L. Harter, 1945  
     Holmes, Francis O., 1946  
   V. tobacco ring spot  
     Cheo, Pen Ching and W.J. Zaumeyer, 1952  
   V. tomato ring spot  
     Samson, R.W. and E.P. Imle, 1942  
 I. cairica, Sweet  
   V. sweet potato feathery mottle  
     Webb, Raymon E., 1954  
 I. crassicaulis, B.L. Robinson  
   V. papaw mosaic  
     Adsuar, Jose, 1950  
 I. nil, (L.) Roth  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. sweet potato feathery mottle  
     Webb, Raymon E., 1954  
   V. tobacco etch  
     Holmes, Francis O., 1946  
 I. pes-caprae, (L.) Roth  
   V. papaw mosaic  
     Adsuar, Jose, 1950  
 I. purpurea, (L.) Lam.  
   V. beet yellow net  
     Sylvester, Edward S., 1948  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. cabbage black ring spot  
     Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938

- Ipomoea purpurea*, (L.) Lam. (cont.)  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. sweet potato feathery mottle  
 Doolittle, S.P. and L.L. Harter, 1945  
 V. sweet potato mosaic  
 Borders, H.I. and T.J. Ratcliff, 1954  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- I. *quinquefolia*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- I. *rubra*, Murr.  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954
- I. *setosa*, Ker.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- I. *sinuata*, Ort.  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954
- I. *spp.*  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 V. sweet potato mosaic  
 Borders, H.I. and T.J. Ratcliff, 1954
- I. *tricolor*, Cav.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 V. sweet potato mosaic  
 Borders, H.I. and T.J. Ratcliff, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946
- IRIS Tourn. ex L. 1735 (Iridaceae)  
 I. *filifolia*, Boiss.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- I. *germanica*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 V. tulip breaking  
 Brierley, Philip and Frank P. McWhorter, 1936  
 McWhorter, F.P., 1935
- I. *pallida*, Lam.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- I. *persica*, L.  
 V. onion yellow dwarf  
 Henderson, W.J., 1935
- I. *spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- I. *versicolor*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ISATIS Tourn. ex L. 1735 (Cruciferae)  
 I. *glauca*, Auch.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942
- ISOMERIS Nutt. ex Torr. & Gray 1838 (Capparidaceae)  
 I. *arborea*, Nutt. ex Torr. & Gray  
 V. beet curly top  
 Severin, Henry H.P., 1939
- ISOTOMA Lindl. 1826 (Campanulaceae)  
 I. *longiflora*, Presl  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- JATROPHA L. 1735 (Euphorbiaceae)  
 J. *gossypifolia*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958
- JUSSIAEA L. 1747 (Onagraceae)  
 J. *angustifolia*, Lam.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- KALANCHOE Adans. 1763 (Crassulaceae)  
 (BRYOPHYLLUM) Salisb. 1805  
 K. *daigremontiana*, Hamet. & Perrier  
 V. tobacco etch  
 Holmes, Francis O., 1946
- K. *spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- (B. *calycinum*), Salisb.  
 V. papaw ring spot  
 Jensen, D.D., 1949
- (B. *pinnatum*), Kurz.  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- KLEINHOVIA L. 1763 (Sterculiaceae)  
 K. *hospita*, L.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- KNIPHOFIA Moench 1794 (Liliaceae)  
 K. *tucki*, Baker  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- KOCHIA Roth 1801 (Chenopodiaceae)  
 K. *scoparia*, (L.) Schrad.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946
- LACTUCA ((Tourn.)) L. 1735 (Compositae)  
 L. *bourgaei*, Irish & Taylor  
 V. aster yellows  
 Tompson, Ross C., 1944  
 L. *marschallii*, Stebbins \*  
 V. aster yellows  
 Tompson, Ross C., 1944  
 L. *muralis*, (L.) Gaertn.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 L. *sativa*, L.  
 V. anemone brown ring \*  
 Hollings M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948

- Lactuca sativa*, L. (cont.)
- V. beet curly top
    - Bennett, C.W. and A.S. Costa, 1949
    - Carsner, E., 1919
    - Severin, Henry H.P., 1929
  - V. beet mosaic
    - Bennett, C.W., 1949
    - Pound, Glenn S., 1947
    - Roland, G. and J. Tahon, 1961
  - V. cauliflower mosaic
    - Alvarez-Garcia, L.A., 1951
  - V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. chrysanthemum stunt
    - Brierley, Philip, 1953
  - V. cineraria mosaic
    - Jones, Leon K., 1944
  - V. citrus tristeza
    - Knorr, L.C., 1956
  - V. cucumber mosaic
    - Burnett, G., 1934
    - Govier, D.A., 1957
    - Nienow, Inez, 1948
  - V. dahlia mosaic
    - Brierley, Philip and Floyd F. Smith, 1950
  - V. dock mosaic
    - Newhall, A.G., 1923
  - V. dodder latent mosaic
    - Bennett, C.W., 1944
  - V. lucerne mosaic
    - Kreitlow, K.W. and W.C. Price, 1949
  - V. milkweed mosaic \*
    - Newhall, A.G., 1923
  - V. muskmelon mosaic
    - Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. orchid (odontoglossum) ring spot
    - Jensen, D.D. and A. Herbert Gold, 1951
  - V. papaw ring spot
    - Jensen, D.D., 1949
  - V. pea mottle
    - Johnson, Folke, 1942
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. pelargonium ring spot \*
    - Hollings, M., 1957
  - V. prunus E \*
    - Fulton, Robert W., 1957
  - V. prunus G \*
    - Fulton, Robert W., 1957
  - V. spinach yellow dwarf
    - Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic
    - Freitag, J.H., 1956
  - V. tobacco mosaic
    - Doolittle, S.P. and F.S. Beecher, 1942
  - V. tomato aspermy
    - Hollings, M., 1955
  - V. tomato spotted wilt
    - Parris, G.K., 1940
  - V. tropaeolum mosaic
    - Silberschmidt, Karl, 1953
- L. sativa* var. *capitata*, L.
- V. bean common mosaic
    - Ainsworth, G.C., 1940
  - V. bean yellow mosaic
    - Ainsworth, G.C., 1940
  - V. cabbage black ring spot
    - Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cauliflower mosaic
    - Tompkins, C.M., 1937
  - V. celery mosaic
    - Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. cucumber mosaic
    - Ainsworth, G.C., 1940
    - Wellman, F.L., 1935
  - V. pea enation mosaic
    - Ainsworth, G.C., 1940
  - V. pea mosaic
    - Ainsworth, G.C., 1940
  - V. pea yellow mosaic \*
    - Ainsworth, G.C., 1940
- L. sativa* var. *capitata*, L. (cont.)
- V. radish mosaic
    - Tompkins, C.M., 1939
  - V. turnip mosaic
    - Tompkins, C.M., 1938, 1939
    - Tompkins, C.M. and H. Rex Thomas, 1938
- L. sativa* var. *crispa*, L.
- V. cucumber mosaic
    - Wellman, F.L., 1935
- L. sativa* var. *longifolia*, Lam.
- V. cucumber mosaic
    - Wellman, F.L., 1935
  - V. primula mosaic
    - Tompkins, C.M. and John T. Middleton, 1941
  - V. squash mosaic
    - Freitag, J.H., 1956
- L. sativa* var. *romana*, Hort.
- V. beet yellow net
    - Sylvester, Edward S., 1948
  - V. cauliflower mosaic
    - Tompkins, C.M., 1937
- L. serriola*, L.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
- L. tatarica*, C.A. Mey.
- V. aster yellows
    - Tompson, Ross C., 1944
- L. virosa*, Rydb.
- V. tobacco ring spot
    - Fenne, S.B., 1931
- LAELIOCATTLEYA X, Rolfe 1887 (Orchidaceae)
- L.* spp.
- V. orchid (vanda) mosaic
    - Murakishi, Harry H., 1952
- LAGENARIA Ser. 1825 (Cucurbitaceae)
- L. siceraria*, (Mol.) Standl. (*L. leucantha*, Rusby)
- V. chilli (pepper) mosaic
    - Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. cowpea mosaic
    - Capoor, S.P. and P.M. Varma, 1956
  - V. cucumber mosaic
    - Nariani, T.K. and Nirmaljit Singh, 1952
  - V. prunus A \*
    - Fulton, Robert W., 1957
  - V. prunus E \*
    - Fulton, Robert W., 1957
  - V. prunus G \*
    - Fulton, Robert W., 1957
  - V. tobacco mosaic
    - Das, C.R. and S.P. Raychaudhuri, 1953
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
- L. vulgaris*, Ser.
- V. datura distortion mosaic
    - Capoor, S.P. and P.M. Varma, 1952
  - V. potato X
    - Vasudeva, R. Sahai and T.B. Lal, 1944
- LAMIUM ((Tourn.)) L. 1735 (Labiatae)
- L. album*, L.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
- L. amplexicaule*, L.
- V. cucumber mosaic
    - Burnett, G., 1934
- L. purpureum*, L.
- V. beet yellows
    - Roland, G. and J. Tahon, 1961
- LANTANA L. 1737 (Verbenaceae)
- L. camara*, L.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Holmes, Francis O., 1946
- L. sellowiana*, Link & Otto
- V. cucumber mosaic
    - Wellman, F.L., 1935

- LATHYRUS ((Tourn.)) L. 1735 (Leguminosae)  
*L. latifolius*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*L. odoratus*, L.  
 V. bean common mosaic  
 Ainsworth, G.C., 1940  
 Doolittle, S.P. and F.R. Jones, 1925  
 Snyder, W.C., 1942  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935  
 V. bean mosaic 3 \*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Doolittle, S.P. and F.R. Jones, 1925  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cowpea mosaic  
 McLean, D.M., 1941  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Bhargava, K.S., 1951  
 Harter, L.L., 1938  
 Wellman, F.L., 1935  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. kaimi clover disease \*  
 Murakishi, Harry H., 1952  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1933  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1933  
 V. tobacco mosaic  
 Allard, H.A., 1916  
*L. pratensis*, L.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
*L. sativus*, L.  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
*L. tuberosus*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- LAVATERA L. 1737 (Malvaceae)  
*L. assurgentiflora*, Kellogg  
 V. beet curly top  
 Carsner, E., 1919  
*L. trimestris*, L.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- LENS ((Tourn.)) L. 1735 (Leguminosae)  
*L. esculenta*, Moench  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Harter, L.L., 1938  
 V. pea enation mosaic  
 Johnson, Folke and Leon K. Jones, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- LEONOTIS R. Br. in Ait. 1811 (Labiatae)  
*L. nepetaefolia*, (L.) R. Br.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- LEONURUS L. 1735 (Labiatae)  
*L. cardiaca*, L.  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- LEPIDIUM L. 1735 (Cruciferae)  
*L. lasiocarpum*, Nutt. ex Torr. & Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. beet curly top  
 Giddings, N.J., 1938  
*L. virginicum*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- LEPIDOSPARTUM A. Gray 1883 (Compositae)  
*L. squamatum*, A. Gray  
 V. beet curly top  
 Severin, Henry H.P., 1939
- LEPTOCHLOA Beauv. 1812 (Gramineae)  
*L. filiformis*, (Lam.) Beauv.  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923
- LEPTONYCHIA Turcz. 1858 (Sterculiaceae)  
*L. pubescens*, Keay  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- LEPTOSYNE DC. 1836 (Compositae)  
*L. maritima*, (Hook. f.) A. Gray  
 V. tobacco etch  
 Holmes, Francis O., 1946
- LESPEDEZA Michx. 1803 (Leguminosae)  
*L. bicolor*, Turcz.  
 V. cowpea mosaic  
 Yu, T.F., 1946  
*L. striata*, (Thunb.) Hook. & Arn.  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. soybean mosaic  
 Conover, Robert A., 1948
- LESSINGIA Cham. 1829 (Compositae)  
*L. glandulifera*, A. Gray  
 V. beet curly top  
 Severin, Henry H.P., 1939
- LIGULARIA Cass. 1816 (Compositae)  
*L. clivorum*, Maxim.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- LIGUSTRUM ((Tourn.)) L. 1735 (Oleaceae)  
*L. lucidum*, Ait.  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
 Lorentz, Paul and Philip Brierley, 1953  
*L. obtusifolium*, Sieb. & Zucc., var. *regelianum*, (Koehne) Rehd.  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
*L. ovalifolium*, Hassk.  
 V. lilac witches' broom  
 Lorentz, Paul and Philip Brierley, 1953

- LILIUM** Tourn. ex L. 1737 (Liliaceae)
- L. auratum*, Lindl.  
V. onion yellow dwarf  
Henderson, W.J., 1935
- L. candidum*, L.  
V. onion yellow dwarf  
Henderson, W.J., 1935  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- L. davidi*, Duch.  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. formosanum*, (Baker) Wallace or Stapf \*  
V. nothoscordum mosaic  
McKinney, H.H., 1950  
V. ornithogalum mosaic  
Smith, Floyd F. and Philip Brierley, 1944  
V. pea mottle  
Johnson, Folke, 1942  
V. pea wilt  
Johnson, Folke, 1942  
V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- L. hansonii*, Leichtl.  
V. cucumber mosaic  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- L. henryi*, Baker  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. humboldtii*, Roez. & Leichtl.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. longiflorum*, Thunb.  
V. onion yellow dwarf  
Henderson, W.J., 1935  
V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952  
V. ornithogalum mosaic  
Smith, Floyd F. and Philip Brierley, 1944
- L. longiflorum* var. *gigantium*, Hort.  
V. narcissus mosaic  
Haasis, Frank A., 1939
- L. martagon*, L., var. *album*, Hort. x *L. hansonii*,  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. nepalense*, D. Don  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. pardalinum*, Kellogg  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. pardalinum* var. *giganteum* \*  
V. cucumber mosaic  
Brierley, Philip, 1940  
V. tulip breaking  
Brierley, Philip, 1940
- L. parryi*, Wats.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944
- L. parryi*, Wats. (cont.)  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. parvum*, Kellogg  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. philippinense*, Baker  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946
- L. regale*, Wilson  
V. onion yellow dwarf  
Henderson, W.J., 1935
- L. sargentiae*, Wilson  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. speciosum*, Thunb.  
V. onion yellow dwarf  
Henderson, W.J., 1935
- L. superbum*, L.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- L. tigrinum*, Ker-Gawl.  
V. onion yellow dwarf  
Henderson, W.J., 1935
- LIMONIUM** Tourn. ex Mill. 1752 (Plumbaginaceae)
- L. bonduelli*, (Lest.) Kuntze  
V. tobacco etch  
Holmes, Francis O., 1946
- L. latifolium*, (J. E. Sm.) Kuntze  
V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. turnip mosaic  
Tompkins, C.M., 1938
- L. sinuatum*, (L.) Mill.  
V. squash mosaic  
Freitag, J.H., 1956  
V. tobacco etch  
Holmes, Francis O., 1946
- LINARIA** Tourn. ex Mill. 1752 (Scrophulariaceae)
- L. canadensis*, (L.) Dumort.  
V. cucumber mosaic  
Wellman, F.L., 1935
- L. floridana*, Chapm.  
V. cucumber mosaic  
Wellman, F.L., 1935
- L. vulgaris*, Mill.  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. tobacco etch  
Holmes, Francis O., 1946
- LINUM** Tourn. ex L. 1735 (Linaceae)
- L. flavum*, L.  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946
- L. grandiflorum*, Desf.  
V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946

- Linum lewisii*, Pursh  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- L. perenne*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- L. usitatissimum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- LOBELIA Plum. ex L. 1737 (Lobeliaceae)
- L. erinus*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco etch  
 Holmes, Francis O., 1946
- L. hybrida*, Hort.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- L. inflata*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- L. spp.*  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- LOBULARIA Desv. 1814 (Cruciferae)
- L. maritima*, (L.) Desv.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. tobacco etch  
 Holmes, Francis O., 1946
- LOLIUM L. 1735 (Gramineae)
- L. perenne*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953
- L. spp.*  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957
- LOTUS ((Tourn.)) L. 1735 (Leguminosae)
- L. corniculatus*, L.  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
 V. lucerne witches' broom  
 Menzies, J.D., 1946  
 V. pea enation mosaic  
 McEwen, F.L. and W.T. Schroeder, 1956
- L. ornithopodioides*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- L. uliginosus*, Schkuhr  
 V. pea enation mosaic  
 McEwen, F.L. and W.T. Schroeder, 1956
- LUFFA ((Tourn.)) L. 1735 (Cucurbitaceae)
- L. acutangula*, Roxb.  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- L. aegyptiaca*, Mill. (*L. cylindrica*, Roem.)  
 V. cucumber mosaic  
 Nariani, T.K. and Nirmaljit Singh, 1952
- L. aegyptiaca*, Mill. (*L. cylindrica*, Roem.) (cont.)  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- L. spp.*  
 V. citrus tristeza  
 Knorr, L.C., 1956
- LUNARIA Tourn. ex L. 1735 (Cruciferae)
- L. annua*, L.  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1939
- LUPINUS ((Tourn.)) L. 1735 (Leguminosae)
- L. affinis*, Agardh.  
 V. beet curly top  
 Carsner, E., 1919
- L. albus*, L.  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Harter, L.L., 1938  
 V. lucerne mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lupine disease \*  
 Weimer, J.L., 1950  
 V. pea enation mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Stubbs, M.W., 1937  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935
- L. angustifolius*, L.  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 V. soybean mosaic  
 Conover, Robert A., 1948  
 V. Wisconsin pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954
- L. hartwegii*, Lindl.  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- L. hirsutus*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. pea wilt  
 Johnson, Folke, 1942
- L. luteus*, L.  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Conover, Robert A., 1948

- Lupinus luteus*, L. (cont.)  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. soybean mosaic  
 Conover, Robert A., 1948
- L. mutabilis*, Sweet  
 V. cucumber mosaic  
 McKnight, T., 1953
- L. polyphyllus*, Lindl.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. pea mosaic  
 Chaudhuri, R.P., 1950  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tomato aspermy  
 Hollings, M., 1955
- L. pubescens*, Benth. (*L. hybridus*, Voss)  
 V. beet mosaic  
 Pound, Glenn S., 1947
- L. spp.*  
 V. lucerne mosaic  
 Kreitlow, K.W. and W.C. Price, 1949
- LYCHNIS ((Tourn.)) L. 1735 (Caryophyllaceae)
- L. alba*, Mill.  
 V. cucumber mosaic  
 Faan, Hwei-Chung and James Johnson, 1951  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco necrosis  
 Fulton, Robert W., 1950
- L. coeli-rosa*, (L.) Desr.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- L. viscaria*, L.  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- LYCIUM L. 1735 (Solanaceae)
- L. barbarum*, L.  
 V. potato X  
 Cockerham, George, 1943  
 V. red currant ring spot  
 Klessner, P.J., 1951
- L. halimifolium*, Mill.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- LYCOPERSICON Tourn. ex Rupp. 1745 (Solanaceae)  
 (LYCOPERSICUM) Hill 1765
- L. chilense*, Dun.  
 V. beet curly top  
 Virgin, Walter J., 1940  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1943
- L. esculentum*, Mill. (*Solanum lycopersicum*, L.)  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. barley stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. bean common mosaic  
 Ainsworth, G.C., 1940  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Ainsworth, G.C., 1940  
 Conover, Robert A., 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Thomas, H. Rex and W.J. Zaumeyer, 1953
- L. esculentum*, Mill. (*Solanum lycopersicum*, L.) (cont.)  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet curly top  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Giddings, N.J., 1938  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. broad bean mottle  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
 Yu, T.F., 1939  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. canna mosaic  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Caldwell, John and Ian W. Prentice, 1942  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. chrysanthemum Q  
 Brierley, Philip and Floyd F. Smith, 1953  
 V. cineraria mosaic  
 Jones, Leon K., 1944  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cowpea mosaic  
 Anderson, C.W., 1955  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949  
 McLean, D.M., 1941  
 Yu, T.F., 1946  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935  
 Vasudeva, R.S. and T.K. Nariani, 1952  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
 V. cucumber mosaic  
 Doolittle, S.P. and W.W. Gilbert, 1918  
 McKnight, T., 1953  
 Vasudeva, R. Sahai and T.B. Lal, 1943  
 V. eryngium yellow mosaic \*  
 Johnson, James and Edith M. Hein, 1948  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1957  
 V. iris mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 V. lettuce mosaic  
 Ainsworth, G.C., 1940  
 Ainsworth, G.C. and L. Ogilvie, 1939  
 V. lucerne mosaic  
 Berkeley, G.H., 1947  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1949  
 Oswald, John W., 1950  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
 V. lupine disease \*  
 Weimer, J.L., 1950  
 V. malva yellow vein mosaic \*  
 Costa, A.S. and James E. Duffus, 1957  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916



- Lycopersicon esculentum*, Mill. (*Solanum lycopersicon*,  
*V. nothoscordum* mosaic L. (cont.)  
 McKinney, H.H., 1950  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1951  
*V. orchid* (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
*V. orchid* (vanda) mosaic  
 Murakishi, Harry H., 1952  
*V. panax* ring spot  
 Aragaki, M., H. Murakishi and J.W. Hendrix, 1953  
*V. papaw* mosaic  
 Adsuar, Jose, 1950  
*V. papaw* ring spot  
 Jensen, D.D., 1949  
*V. pea* enation mosaic  
 Ainsworth, G.C., 1940  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*V. pea* mosaic  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1937  
 Stubbs, M.W., 1937  
*V. pea* mottle  
 Johnson, Folke, 1942  
*V. pea* streak  
 Zaumeyer, W.J., 1938  
*V. pea* wilt  
 Johnson, Folke, 1942  
*V. pea* yellow mosaic \*  
 Ainsworth, G.C., 1940  
*V. pelargonium* leaf curl  
 Jones, Leon K., 1940  
*V. physalis* floridana yellow net  
 Webb, R.E., 1955  
*V. pokeweed* mosaic \*  
 Allard, H.A., 1918  
*V. potato* A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker,  
 1953  
*V. potato* paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker,  
 1956  
 Kassanis, B., 1955  
*V. potato* Y  
 Hamilton, Marion A., 1932  
*V. primula* mosaic  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
*V. red clover* vein mosaic  
 Hagedorn, D.J. and E.W. Hanson, 1951  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 Osborn, H.T., 1937  
*V. soybean* mosaic  
 Conover, Robert A., 1948  
*V. spinach* yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
*V. squash* mosaic  
 Freitag, J.H., 1956  
*V. squash* mosaic (southern)  
 Anderson, C.W., 1951  
*V. stone* fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
*V. sweet potato* mosaic  
 Borders, H.I. and T.J. Ratcliff, 1954  
*V. tobacco* coarse etch  
 Johnson, E.M., 1930  
*V. tobacco* green mosaic  
 McKinney, H.H., 1929  
 Peterson, Paul D. and H.H. McKinney, 1938  
*V. tobacco* mosaic  
 McKinney, H.H., 1935  
*V. tobacco* ring spot  
 Berkeley, G.H., 1953  
 Bridgman, G.H. and J.C. Walker, 1952  
 Cooper, W.E., 1949  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Johnson, E.M., 1930  
 Pound, Glenn S., 1949  
 Stubbs, M.W., 1937  
*L. esculentum*, Mill. (*Solanum lycopersicon*, L.) (cont.)  
*V. tobacco* ring spot  
 Wingard, S.A., 1928  
*V. tobacco* streak  
 Johnson, J., 1936  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*V. tobacco* stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki,  
 1956  
*V. tropaeolum* mosaic  
 Silberschmidt, Karl, 1953  
*V. tulip* breaking  
 McWhorter, F.P., 1935  
*V. turnip* rosette \*  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. Wisconsin* pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
*L. esculentum* var. *commune*, Bailey \*  
*V. celery* mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
*V. pea* mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*L. esculentum* var. *vulgare*, Bailey  
*V. cabbage* black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
*V. cauliflower* mosaic  
 Tompkins, C.M., 1937  
*V. primula* mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
*V. radish* mosaic  
 Tompkins, C.M., 1939  
*V. turnip* mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*L. lycopersicon*, (L.) Karst. \*  
*V. cucumber* mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
*L. peruvianum*, (L.) Mill.  
*V. beet* curly top  
 Giddings, N.J., C.W. Bennett and A.L. Harrison,  
 1951  
*V. tomato* ring spot  
 Samson, R.W. and E.P. Imle, 1942  
*V. tomato* spotted wilt  
 Smith, Paul G., 1944  
*L. pimpinellifolium*, (Jusl.) Mill.  
*V. beet* curly top  
 Giddings, N.J., C.W. Bennett and A.L. Harrison,  
 1951  
*V. cabbage* black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
*V. cabbage* ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
*V. cauliflower* mosaic  
 Tompkins, C.M., 1937  
*V. cowpea* mosaic  
 Yu, T.F., 1946  
*V. radish* mosaic  
 Tompkins, C.M., 1939  
*V. turnip* mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 LYCOPUS Tourn. ex L. 1735 (Labiatae)  
*L. rubellus*, Moench  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* mosaic  
 Holmes, Francis O., 1938  
*L. virginicus*, L.  
*V. tobacco* mosaic  
 Holmes, Francis O., 1938  
 LYTHRUM L. 1735 (Lythraceae)  
*L. salicaria*, L.  
*V. anemone* brown ring \*  
 Hollings, M., 1958  
*V. chrysanthemum* B (mild mosaic) \*  
 Hollings, M., 1957  
*V. chrysanthemum* latent \*  
 Hollings, M., 1957

- MALACHRA L. 1767 (Malvaceae)  
*M. capitata*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958
- MALCOMIA ((R. Br. in)) Ait. Hort. Kew. 1812  
 (MALCOLMIA Spreng.) 1818 (Cruciferae)  
*M. africana*, ((R. Br. in)) Ait. Hort. Kew.  
 V. beet curly top  
 Giddings, N.J., 1944  
*M. maritima*, R. Br.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. turnip mosaic  
 Tompkins, C.M., 1939
- MALOPE L. 1735 (Malvaceae)  
*M. trifida*, Cav.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- MALUS Tourn. ex L. 1737 (Rosaceae)  
*M. spp.*  
 V. beet curly top  
 Giddings, N.J., 1944  
*M. sylvestris*, Mill.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Fulton, Robert W., 1956
- MALVA ((Tourn.)) L. 1735 (Malvaceae)  
*M. moschata*, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
 Hildebrand, 1947  
*M. parviflora*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex  
 Thomas, 1938  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
*M. rotundifolia*, L.  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Burnett, G., 1934  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. tobacco ring spot  
 Fenne, S.B., 1931  
*M. spp.*  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
*M. sylvestris*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- MALVASTRUM A. Gray 1849 (Malvaceae)  
*M. coromandelianum*, Garcke  
 V. papaw ring spot  
 Jensen, D.D., 1949
- MANIHOT Tourn. ex Adans. 1763 (Euphorbiaceae)  
*M. esculenta*, Crantz (M. utilisissima, Pohl)  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- M. esculenta*, Crantz (M. utilisissima, Pohl) (cont.)  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*M. glaziovii*, Muell. Arg.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- MANSONIA J.R. Drumm. 1905 (Sterculiaceae)  
*M. altissima*, A. Chev.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- MARANTA Plum. ex L. 1737 (Marantaceae)  
*M. arundinaceae*, L.  
 V. canna mosaic  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
*M. bicolor*, Ker  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- MARRUBIUM Tourn. ex L. 1735 (Labiatae)  
*M. vulgare*, L.  
 V. beet curly top  
 Carsner, E., 1919  
 Severin, Henry H.P., 1939  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco etch  
 Holmes, Francis O., 1946
- MATRICARIA ((Tourn.)) L. 1735 (Compositae)  
*M. chamomilla*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. discoidea*, DC.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. inodora*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. suaveolens*, (Pursh) Buch.  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- MATTHIOLA R. Br. 1812 (Cruciferae)  
*M. bicornis*, (Sibth. & Sm.) DC.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1938  
*M. incana*, (L.) R. Br.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Wellman, F.L., 1935  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P.  
 Doolittle, 1955  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
*M. incana* var. *annua*, (L.) Voss  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 Severin, Henry H.P. and Roger M. Drake, 1948  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942

- Matthiola incana*, (L.) R. Br., var. *annua*, (L.) Voss  
*V. chrysanthemum B* (mild mosaic) \* (cont.)  
 Hollings, M., 1957  
*V. orchid* (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
*V. primula* mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
*V. radish* mosaic  
 Tompkins, C.M., 1939  
*V. spinach* yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
*V. squash* mosaic  
 Freitag, J.H., 1956  
*V. turnip* mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945
- MEDEOLA** Gronov. ex L. 1735 (Liliaceae)  
*M. virginica*, L.  
*V. cucumber* mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily* symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. tulip* breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- MEDICAGO** Tourn. ex L. 1737 (Leguminosae)  
*M. arabica*, (L.) All.  
*V. lucerne* witches' broom  
 Menzies, J.D., 1946  
*M. hispida*, Gaertn.  
*V. bean* yellow mosaic  
 Grogan, Raymond G. and J.C. Walker, 1948  
*V. squash* mosaic  
 Freitag, J.H., 1956  
*M. lacinata*, Mill.  
*V. lucerne* witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951  
*M. lupulina*, L.  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961  
*V. lucerne* mosaic  
 Kreitlow, K.W. and W.C. Price, 1949  
*V. pea* enation mosaic  
 Johnson, Folke and Leon K. Jones, 1937  
 McEwen, F.L. and W.T. Schroeder, 1956  
*V. pea* mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*V. red currant* ring spot  
 Klesser, P.J., 1951  
*M. orbicularis*, All.  
*V. red clover* vein mosaic  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
*M. sativa*, L.  
*V. barley* stripe mosaic  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*V. bayberry* yellows  
 Raychaudhuri, S.P., 1953  
*V. bean* common mosaic  
 Snyder, W.C., 1942  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. bean* Montana \*  
 Afanasiev, M.M. and H.E. Morris, 1946  
*V. bean* southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
*V. bean* yellow mosaic  
 Afanasiev, M.M. and H.E. Morris, 1952  
 Conover, Robert A., 1948  
 Elliott, J.A., 1921  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Houston, Byron R. and John W. Oswald, 1953  
 Pierce, W.H., 1935  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1952  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. bean* yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*V. beet* curly top  
 Giddings, N.J., 1944  
*V. beet* mosaic  
 Bennett, C.W., 1949  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961
- M. sativa*, L. (cont.)  
*V. broad bean* mottle  
 Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
*V. cabbage* black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
*V. cauliflower* mosaic  
 Alvarez-Garcia, L.A., 1951  
*V. chilli* (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*V. chilli* veinbanding  
 Simons, John N., 1956  
*V. chrysanthemum B* (mild mosaic) \*  
 Hollings, M., 1957  
*V. clover* big vein  
 Black, L.M. and M.K. Brakke, 1952  
*V. cowpea* mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 Yu, T.F., 1946  
*V. cucumber* mosaic  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Simons, John N., 1957  
*V. filaree* red leaf  
 Frazier, Norman W., 1951  
*V. hibiscus* yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
*V. kaimi* clover disease \*  
 Murakishi, Harry H., 1952  
*V. lucerne* mosaic  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1949  
 Porter, D.R., 1935  
*V. onion* yellow dwarf  
 Henderson, W.J., 1935  
*V. pea* enation mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*V. pea* mosaic  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Murphy, D.M. and W.H. Pierce, 1937  
 Pierce, W.H., 1935  
 Stubbs, M.W., 1937  
*V. pea* wilt  
 Johnson, Folke, 1942  
*V. potato* yellow dwarf  
 Black, L.M., 1943  
*V. red clover* mosaic \*  
 Elliott, J.A., 1921  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. red clover* vein mosaic  
 Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
 Hagedorn, D.J. and E.W. Hanson, 1951  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 Osborn, H.T., 1937  
*V. soybean* mosaic  
 Conover, Robert A., 1948  
 Pierce, W.H., 1935  
*V. squash* mosaic  
 Freitag, J.H., 1956  
*V. tobacco* broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
*V. tobacco* etch  
 Holmes, Francis O., 1946  
*V. tobacco* mosaic  
 Costa, A.S., 1944  
 Holmes, Francis O., 1938, 1946  
 Johnson, Folke, 1941  
*V. tobacco* ring spot  
 Benedict, W.G., 1955  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Stubbs, M.W., 1937  
*V. tobacco* streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*V. vaccinium* false blossom  
 Costa, A.S., 1944  
 Kunkel, L.O., 1945  
*V. Wisconsin* pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 Skotland, C.B. and D.J. Hagedorn, 1954

- MELANDRYUM Reichb. 1837 (Caryophyllaceae)  
*M. album*, Garcke  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. rubrum*, Garcke  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- MELILOTUS Tourn. ex Hall. 1742 (Leguminosae)  
*M. alba*, Desr.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bean common mosaic  
 Snyder, W.C., 1942  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Baggett, James R., 1957  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cowpea mosaic  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Bridgmon, G.H. and J.C. Walker, 1952  
 V. gladiolus \*  
 Snow, Gordon F., 1955  
 V. kaimi clover disease \*  
 Murakishi, Harry H., 1952  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. pea enation mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Stubbs, M.W., 1937  
 V. pea mosaic  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Stubbs, M.W., 1937  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. red clover mosaic \*  
 Dickson, B.T., 1922  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. soybean mosaic  
 Conover, Robert A., 1948  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco broad ring spot  
 Johnson, James and Robert W. Fulton, 1942  
 V. tobacco ring spot  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
*M. dentata*, (Waldst. & Kit.) Pers.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. hybridum* \*  
 V. tobacco ring spot  
 Benedict, W.G., 1955  
*M. indica*, (L.) All.  
 V. bean common mosaic  
 Snyder, W.C., 1942  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. squash mosaic  
 Freitag, J.H., 1956  
*M. officinalis*, (L.) Lam.  
 V. bean yellow mosaic  
 Grogan, Raymond G. and J.C. Walker, 1948  
 V. cucumber mosaic  
 Whipple, O.C. and J.C. Walker, 1941  
*M. officinalis*, (L.) Lam. (cont.)  
 V. kaimi clover disease \*  
 Murakishi, Harry H., 1952  
 V. pea enation mosaic  
 Johnson, Folke and Leon K. Jones, 1937  
 Pierce, W.H., 1935  
 V. pea mosaic  
 Osborn, H.T., 1938  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. red clover mosaic \*  
 Dickson, B.T., 1922  
 V. red currant ring spot  
 Klesser, P.J., 1951  
 V. soybean mosaic  
 Conover, Robert A., 1948  
 Pierce, W.H., 1935  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco ring spot  
 Benedict, W.G., 1955  
*M. spp.*  
 V. lucerne witches' broom  
 Menzies, J.D., 1944
- MELISSA Tourn. ex L. 1737 (Labiatae)  
*M. officinalis*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- MELOCHIA Dill. ex L. 1735 (Sterculiaceae)  
*M. melissaefolia*, Benth.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*M. pyramidata*, L.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- MELOTHRIA L. 1737 (Cucurbitaceae)  
*M. guadalupensis*, (Spreng.) Cogn.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
*M. pendula*, L.  
 V. prunus G \*  
 Fulton, Robert W., 1957
- MENTHA ((Tourn.)) L. 1735 (Labiatae)  
*M. piperita*, L.  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
*M. spicata*, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. tobacco etch  
 Holmes, Francis O., 1946
- MENTZELIA Plum. ex L. 1737 (Loasaceae)  
*M. pumila*, Torr. & Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- MESEMBRYANTHEMUM Dill. ex L. 1735 (Aizoaceae)  
*M. aequilaterale*, Haw.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*M. crystallinum*, L.  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*M. lineare*, Thunb.  
 V. tobacco etch  
 Holmes, Francis O., 1946

- MILLETTIA Wight & Arn. 1834 (Leguminosae)  
*M. thonningii*, Baker  
 V. cacao swollen shoot  
 Tinsley, T. W. and A. L. Wharton, 1958
- MIMULUS L. 1741 (Scrophulariaceae)  
*M. luteus*, L.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. red currant ring spot  
 Klessner, P. J., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*M. moschatus*, Dougl.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*M. spp.*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- MIRABILIS Riv. ex L. 1735 (Nyctaginaceae)  
*M. jalapa*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Wellman, F. L., 1935  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. papaw ring spot  
 Jensen, D. D., 1949  
 V. pea mosaic  
 Murphy, D. M. and W. H. Pierce, 1937  
 V. spinach yellow dwarf  
 Severin, Henry H. P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J. H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- MISCANTHUS Anderss. 1855 (Gramineae)  
*M. sinensis*, Anderss., var. *variegatus*, Beal  
 V. sugarcane mosaic  
 Brandes, E. W. and Peter J. Klaphaak, 1923  
*M. sinensis* var. *zebrinus*, Beal  
 V. sugarcane mosaic  
 Brandes, E. W. and Peter J. Klaphaak, 1923
- MOLLUGO L. 1737 (Aizoaceae)  
*M. verticillata*, L.  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- MOMORDICA ((Tourn.)) L. 1735 (Cucurbitaceae)  
*M. charantia*, L.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S. P. Raychaudhuri, 1956  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. watermelon mosaic  
 Anderson, C. W., 1954
- MORAEA Mill. ex L. 1762 (Iridaceae)  
*M. iridioides*, L.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- MUCANA Adans. 1763 (Leguminosae)  
 (STIZOLOBIUM) P. Br. 1756  
*M. derringianum*, (Bort) Merr.  
 V. bean common mosaic  
 Zaumeyer, W. J. and B. L. Wade, 1935  
 V. bean southern mosaic  
 Zaumeyer, W. J. and L. L. Harter, 1943  
 V. bean yellow mosaic  
 Zaumeyer, W. J. and B. L. Wade, 1935  
 V. cowpea mosaic  
 Capoor, S. P. and P. M. Varma, 1956  
 V. lucerne mosaic  
 Zaumeyer, W. J., 1938  
 Zaumeyer, W. J. and B. L. Wade, 1935  
 V. pea streak  
 Zaumeyer, W. J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W. J. and B. L. Wade, 1935
- MUHLENBERGIA Schreb. 1789 (Gramineae)  
*M. mexicana*, (L.) Trin.  
 V. onion yellow dwarf  
 Henderson, W. J., 1935
- MURRAYA Koen. ex L. 1771 (Rutaceae)  
*M. koenigii*, Spreng.  
 V. citrus tristeza  
 Knorr, L. C., 1956
- MUSA L. 1736 (Musaceae)  
*M. balbisiana*, Colla  
 V. abaca bunchy top  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*M. banksii*, F. Muell.  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*M. cavendishii*, Lamb.  
 V. abaca bunchy top  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
 V. canna mosaic  
 Brierley, Philip and Floyd F. Smith, 1948  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 Celino, M. S. and Aureo L. Martinez, 1956  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*M. ensete*, Gmel.  
 V. canna mosaic  
 Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956  
*M. ornatus*, Roxb.  
 V. cucumber mosaic  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*M. paradisiaca*, L.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
*M. paradisiaca* subsp. *sapientum*, (L.) Kuntze  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
*M. paradisiaca* subsp. *sapientum* var. *cinerea*, Blanco  
 V. abaca bunchy top  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
 V. cucumber mosaic  
 Celino, Martin S., 1940  
*M. paradisiaca* subsp. *sapientum* var. *lacatan*, Blanco  
 V. abaca bunchy top  
 Ocfemia, G. O. and Gabino G. Buhay, 1934

- Musa paradisiaca*, L., subsp. *sapientum*, (L.) Kuntze,  
var. *lacatan*, Blanco (cont.)  
V. cucumber mosaic  
Celino, Martin S., 1940
- M. *paradisiaca* subsp. *sapientum* var. *suaveolens*, Blanco  
V. abaca bunchy top  
Ocfemia, G.O. and Gabino G. Buhay, 1934  
V. cucumber mosaic  
Celino, Martin S., 1940
- M. *sapientum* var. *compressa*, (Blanco) Teodoro \*  
V. abaca bunchy top  
Ocfemia, G.O. and Gabino G. Buhay, 1934  
V. cucumber mosaic  
Celino, Martin S., 1940
- M. spp.  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- M. *textilis*, Nee  
V. canna mosaic  
Brierley, Philip and Floyd F. Smith, 1948  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- M. *textilis* x M. *balbisiana*, Colla  
V. abaca bunchy top  
Umali, D.L., F.A. Bernardo and G.O. Ocfemia,  
1956  
V. cucumber mosaic  
Umali, D.L., F.A. Bernardo and G.O. Ocfemia,  
1956
- MUSCARI Tourn. ex Mill. 1752 (Liliaceae)  
M. *armeniaceum*, Leichtl.  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- M. *botryoides*, (L.) Mill.  
V. ornithogalum mosaic  
Smith, Floyd F. and Philip Brierley, 1944
- M. *polyanthum*, Boiss.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- MYOSOTIS ((Tourn.)) Dill. ex L. 1735 (Boraginaceae)  
M. *alpestris*, Schmidt  
V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941  
V. radish mosaic  
Tompkins, C.M., 1939  
V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- M. *arvensis*, Lam.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- M. *scorpioides*, L.  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. tobacco etch  
Holmes, Francis O., 1946
- M. *sylvatica*, Hoffm.  
V. anemone mosaic \*  
Hollings, M., 1957  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. henbane mosaic  
Hamilton, Marion A., 1932  
V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937  
V. tobacco etch  
Holmes, Francis O., 1946
- NARCISSUS ((Tourn.)) L. 1735 (Amaryllidaceae)  
N. *poeticus*, L.  
V. onion yellow dwarf  
Henderson, W.J., 1935  
V. tulip breaking  
McWhorter, F.P., 1935
- N. *pseudo-narcissus*, L.  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- N. *tazetta*, L.  
V. cucumber mosaic  
Wellman, F.L., 1935
- NASTURTIUM L. 1735 (Cruciferae)  
N. *officinale*, R. Br. (*Rorippa nasturtium-aquaticum*,  
(L.) Schinz & Thell.)  
V. anemone mosaic \*  
Hollings, M., 1957  
V. cauliflower mosaic  
Caldwell, John and Ian W. Prentice, 1942  
V. squash mosaic  
Freitag, J.H., 1956
- N. *palustre*, DC.  
V. cauliflower mosaic  
Caldwell, John and Ian W. Prentice, 1942
- NEMESIA Vent. 1803 (Scrophulariaceae)  
N. spp.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- N. *strumosa*, Benth.  
V. tobacco etch  
Holmes, Francis O., 1946
- NEMOPHILA Nutt. ex Barton 1882 (Hydrophyllaceae)  
N. *menziessii*, Hook. & Arn.  
V. squash mosaic  
Freitag, J.H., 1956
- NEOMARICA Sprague 1928 (Iridaceae)  
N. *caerulea*, Sprague  
V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952
- NEPETA Riv. ex L. 1737 (Labiatae)  
N. *cataria*, L.  
V. prunus A \*  
Fulton, Robert W., 1957  
V. prunus E \*  
Fulton, Robert W., 1957  
V. prunus G \*  
Fulton, Robert W., 1957  
V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Stover, W.G. and M.T. Vermillion, 1933
- N. *hederacea*, (L.) Trev.  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946
- N. *mussini*, Spreng.  
V. tobacco etch  
Holmes, Francis O., 1946
- NESLIA Desv. 1814 (Cruciferae)  
N. *paniculata*, (L.) Desv.  
V. beet mosaic  
Pound, Glenn S., 1947
- NESOGORDONIA Baill. 1886 (Theaceae)  
N. *papaverifera*, (A. Chev.) Capuron  
V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
- NICANDRA Adans. 1763 (Solanaceae)  
N. *physalodes*, (L.) Gaertn.  
V. beet curly top  
Costa, A.S., 1952  
V. beet mosaic  
Pound, Glenn S., 1947  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S.  
Pound, 1945  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957

- Nicandra physaloides*, (L.) Gaertn. (cont.)
- V. pelargonium ring spot \*  
Hollings, M., 1957
  - V. potato M \*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato paracrinkle  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato spindle tuber  
Goss, R.W., 1931
  - V. potato Y  
Johnson, E.M., 1930
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. sweet potato feathery mottle  
Webb, Raymon E., 1954
  - V. tobacco mosaic  
Fernow, K.H., 1923
- NICOTIANA L. 1735 (Solanaceae)
- N. acuminata*, Hook.
- V. beet curly top  
Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951
  - V. beet mosaic  
Bennett, C.W., 1949
  - V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. affinis*, T. Moore
- V. anemone brown ring \*  
Hollings, M., 1958
  - V. cauliflower mosaic  
Caldwell, John and Ian W. Prentice, 1942
- N. alata*, Link & Otto
- V. tobacco stunt \*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. alata* var. *grandiflora*, Comes
- V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. eggplant mosaic  
Ferguson, I.A.C., 1951
  - V. spinach yellow dwarf  
Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. turnip mosaic  
Dale, W.T., 1948
- N. atropurpureum*, Hort. \*
- V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
- N. benthamiana*, Domin
- V. prunus G \*  
Fulton, Robert W., 1957
- N. bigelovii*, Wats., var. *multivalvis*, Gray \*
- V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
- N. chinensis*, Fisch.
- V. eggplant mosaic  
Ferguson, I.A.C., 1951
  - V. turnip mosaic  
Dale, W.T., 1948
- N. clevelandi*, A. Gray
- V. anemone brown ring \*  
Hollings, M., 1958
  - V. pelargonium ring spot \*  
Hollings, M., 1957
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
- N. debneyi*, Domin
- V. tobacco yellow dwarf  
Hill, A.V. and M. Mandryk, 1954
- N. exigua*, Wheeler
- V. tobacco yellow dwarf  
Hill, A.V. and M. Mandryk, 1954
- N. glauca*, Graham
- V. alsike clover mosaic  
Zaumeyer, W.J., 1940
  - V. bayberry yellows  
Raychaudhuri, S.P., 1953
- N. glauca*, Graham (cont.)
- V. bean yellow mosaic  
Zaumeyer, W.J., 1940
  - V. beet curly top  
Bennett, C.W. and A.S. Costa, 1949  
Costa, A.S., 1952  
Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951
  - V. beet mosaic  
Bennett, C.W., 1949
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. chilli (pepper) mosaic  
Adsuar, J. and L. Lopez Matos, 1955
  - V. citrus tristeza  
Bennett, C.W. and A.S. Costa, 1949
  - V. cucumber mosaic  
Johnson, J., 1926, 1927
  - V. potato X  
Johnson, James, 1927
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco etch  
Bennett, C.W., 1944
  - V. tobacco mosaic  
Adsuar, J. and L. Lopez Matos, 1955  
Johnson, James, 1927
  - V. tobacco ring spot  
Grogan, R.G. and W.C. Schnathorst, 1955
  - V. tobacco stunt \*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
  - V. tomato spotted wilt  
Shapovalov, M., 1934
  - V. turnip mosaic  
Bennett, C.W., 1944
- N. glutinosa*, L.
- V. alsike clover mosaic  
Zaumeyer, W.J., 1940
  - V. anemone brown ring \*  
Hollings, M., 1958
  - V. bayberry yellows  
Raychaudhuri, S.P., 1953
  - V. bean common mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Snyder, W.C., 1942
  - V. bean pod mottle  
Zaumeyer, W.J. and H. Rex Thonas, 1948
  - V. bean southern mosaic  
Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1940  
Zaumeyer, W.J. and H.H. Fisher, 1953
  - V. beet curly top  
Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
Costa, A.S., 1952
  - V. beet mosaic  
Bennett, C.W., 1949  
Severin, Henry H.P. and Roger M. Drake, 1948
  - V. beet yellows  
Bennett, C.W. and Carlos Munck, 1946  
Roland, G. and J. Tahon, 1961
  - V. broad bean mottle  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
  - V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tramaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Smith, Kenneth M., 1935  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. celery mosaic  
Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. chilli (pepper) mosaic  
Ferguson, I.A.C., 1951
  - V. chrysanthemum ring spot  
Brierley, Philip and Floyd F. Smith, 1955

- Nicotiana glutinosa*, L. (cont.)
- V. chrysanthemum stunt  
Brierley, Philip, 1953
  - V. cowpea mosaic  
Anderson, C. W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W. T., 1949  
McLean, D.M., 1941
  - V. cucumber green mottle mosaic  
Ainsworth, G. C., 1935  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
  - V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. dandelion yellow mosaic  
Kassanis, B., 1947
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950
  - V. hydrangea ring spot  
Brierley, Philip and Paul Lorentz, 1957
  - V. lettuce mosaic  
Ainsworth, G. C. and L. Ogilvie, 1939
  - V. muskmelon mosaic  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. onion yellow dwarf  
Henderson, D.M., 1953
  - V. orchid (*cymbidium*) mosaic  
Jensen, D.D., 1951
  - V. orchid (*odontoglossum*) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
  - V. orchid (*vanda*) mosaic  
Murakishi, Harry H., 1952
  - V. panax ring spot  
Aragaki, M., H. Murakishi and J.W. Hendrix, 1953
  - V. panicum mosaic \*  
Sill, W.H., Jr. and R.C. Pickett, 1957
  - V. papaw mosaic  
Adsuar, Jose, 1950
  - V. pea enation mosaic  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Osborn, H. T., 1938  
Stubbs, M.W., 1937
  - V. pea mosaic  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Osborn, H. T., 1937  
Stubbs, M.W., 1937
  - V. pea mottle  
Johnson, Folke, 1942
  - V. pea wilt  
Johnson, Folke, 1942
  - V. pelargonium ring spot \*  
Hollings, M., 1957
  - V. *physalis floridana* yellow net  
Webb, R. E., 1955
  - V. potato A  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato M \*  
Bagnall, R.H. and R.H. Larson, 1957
  - V. potato paracrinkle  
Bagnall, R.H. and R.H. Larson, 1957  
Kassanis, B., 1955
  - V. primula mosaic  
Severin, Henry H.P. and C.M. Tompkins, 1950  
Tompkins, C.M. and John T. Middleton, 1941
  - V. red clover vein mosaic  
Osborn, H. T., 1937
  - V. spinach yellow dwarf  
Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. squash mosaic (southern)  
Anderson, C.W., 1951
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- N. glutinosa*, L. (cont.)
- V. sweet potato feathery mottle  
Doolittle, S.P. and L.L. Harter, 1945  
Webb, Raymon E., 1954
  - V. tobacco mosaic  
Allard, H.A., 1916, 1917  
Johnson, J., 1926, 1927
  - V. tobacco ring spot  
Starr, Chester K. and W.E. Cooper, 1944  
Stubbs, M.W., 1937
  - V. tobacco streak  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. tobacco stunt \*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
  - V. tomato big bud  
Samuel, G., J.G. Bald and C.M. Eardley, 1933
  - V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
  - V. tomato twisted leaf  
Ferguson, I.A.C., 1951
  - V. tomato yellow net  
Sylvester, Edward S., 1954
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip mosaic  
Dale, W. T., 1948  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C.M., 1939
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
  - V. watermelon mosaic  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
- N. glutinosa* x *N. tabacum*, L.
- V. tobacco mosaic  
Allard, H.A., 1916
- N. gossei*, Domin
- V. tobacco stunt \*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. langsdorffii*, Weinm.
- V. beet mosaic  
Bennett, C.W., 1949
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Tompkins, C.M., 1937
  - V. pea enation mosaic  
Osborn, H. T., 1938
  - V. red clover vein mosaic  
Osborn, H. T., 1937
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thonas, 1938
- N. longiflora*, Cav.
- V. beet mosaic  
Bennett, C.W., 1949
  - V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. tobacco stunt \*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. multivalvis*, Lindl.
- V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. nudicaulis*, S. Wats.
- V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. otophora*, Griseb.
- V. tobacco etch  
Holmes, Francis O., 1946



- Nicotiana palmeri*, A. Gray  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. tobacco etch  
 Holmes, Francis O., 1946
- N. paniculata*, L.  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. plumbaginifolia*, Viv.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- N. quadrivalvis*, Pursh  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- N. raimondii*, Macbride  
 V. tobacco etch  
 Holmes, Francis O., 1946
- N. repanda*, Willd.  
 V. potato Y  
 Roque, Arturo and Jose Adsuar, 1941  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956  
 V. turnip mosaic  
 LeBeau, Francis J. and J.C. Walker, 1945
- N. rotundifolia*, Lindl.  
 V. tobacco yellow dwarf  
 Hill, A.V. and M. Mandryk, 1954
- N. rustica*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. bean yellow mosaic  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chilli (pepper) mosaic  
 Ferguson, I.A.C., 1951  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. cucumber mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 V. eggplant mosaic  
 Ferguson, I.A.C., 1951  
 V. lilac witches' broom  
 Brierley, Philip, 1955  
 V. muskmelon mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- N. rustica*, L. (cont.)  
 V. red clover vein mosaic  
 Osborn, H.T., 1937  
 V. squash mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956  
 V. tropaeolum mosaic  
 Silberschmidt, Karl, 1953  
 V. turnip mosaic  
 Dale, W.T., 1948  
 LeBeau, Francis J. and J.C. Walker, 1945  
 V. watermelon mosaic  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 V. Wisconsin pea streak  
 Hagedorn, D.J. and J.C. Walker, 1949, 1954
- N. rustica* var. *humulis*, Schrank \*  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939
- N. rustica* var. *jamaicensis* \*  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942
- N. sanderae*, W. Wats. (*N. alata*, Link & Otto x *N. forgetiana*, Sander)  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. eggplant mosaic  
 Ferguson, I.A.C., 1951  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956  
 V. turnip mosaic  
 Dale, W.T., 1948
- N. spp.*  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957
- N. stocktoni*, Brandegee, in Erythea  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- N. suaveolens*, Lehm.  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. sylvestris*, Speg. & Comes  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chilli (pepper) mosaic  
 Ferguson, I.A.C., 1951  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. eggplant mosaic  
 Ferguson, I.A.C., 1951  
 V. pea enation mosaic  
 Osborn, H.T., 1938  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. potato M \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956

- Nicotiana sylvestris*, Speg. & Comes (cont.)
- V. potato Y
    - Roque, Arturo and Jose Adsuar, 1941
  - V. red clover vein mosaic
    - Osborn, H. T., 1937
  - V. sweet potato feathery mottle
    - Webb, Raymon E., 1954
  - V. tobacco stunt \*
    - Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
  - V. tomato aspermy
    - Blencowe, J. W. and John Caldwell, 1949
  - V. tomato ring spot
    - Samson, R. W. and E. P. Imle, 1942
  - V. turnip mosaic
    - Dale, W. T., 1948
    - LeBeau, Francis J. and J. C. Walker, 1945
- N. *tabacum*, L.
- V. abutilon infectious variegation
    - Silberschmidt, K. and L. R. Tommasi, 1956
  - V. alsike clover mosaic
    - Zaumeier, W. J., 1940
  - V. anemone brown ring \*
    - Hollings, M., 1958
  - V. bayberry yellows
    - Raychaudhuri, S. P., 1953
  - V. bean common mosaic
    - Snyder, W. C., 1942
  - V. bean pod mottle
    - Zaumeier, W. J. and H. Rex Thomas, 1948
  - V. bean southern mosaic
    - Zaumeier, W. J. and L. L. Harter, 1943
  - V. bean yellow mosaic
    - Conover, Robert A., 1948
    - Grogan, Raymond G. and J. C. Walker, 1948
    - Hagedorn, D. J. and J. C. Walker, 1950, 1954
    - Pierce, W. H., 1935
    - Zaumeier, W. J., 1940
  - V. bean yellow stipple
    - Zaumeier, W. J. and H. Rex Thomas, 1950
  - V. beet curly top
    - Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946
    - Costa, A. S., 1952
    - Giddings, N. J., 1938, 1944
    - Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
  - V. beet mosaic
    - Bennett, C. W., 1949
    - Hoggan, I. A., 1933
    - Pound, Glenn S., 1947
  - V. beet rosette \*
    - Bennett, C. W. and James E. Duffus, 1957
  - V. beet yellow net
    - Sylvester, Edward S., 1948
  - V. beet yellow wilt
    - Bennett, C. W. and Carlos Munck, 1946
  - V. beet yellows
    - Roland, G. and J. Tahon, 1961
  - V. broad bean mottle
    - Bawden, F. C., R. P. Chaudhuri and B. Kassanis, 1951
    - Yu, T. F., 1939
  - V. cacao swollen shoot
    - Tinsley, T. W. and A. L. Wharton, 1958
  - V. canna mosaic
    - Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
  - V. carnation mosaic
    - Brierley, Philip and Floyd F. Smith, 1955, 1957
  - V. carnation mottle
    - Brierley, Philip and Floyd F. Smith, 1957
    - Kassanis, B., 1955
  - V. carnation vein mottle
    - Kassanis, B., 1955
  - V. cauliflower mosaic
    - Alvarez-Garcia, L. A., 1951
    - Berkeley, G. H. and J. H. Tremaine, 1954
    - Caldwell, John and Ian W. Prentice, 1942
    - Tompkins, C. M., 1937
    - Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. celery mosaic
    - Freitag, Julius H. and Henry H. P. Severin, 1945
- N. *tabacum*, L. (cont.)
- V. chrysanthemum B (mild mosaic) \*
    - Hollings, M., 1957
  - V. chrysanthemum Q
    - Brierley, Philip and Floyd F. Smith, 1953
  - V. chrysanthemum ring spot
    - Brierley, Philip and Floyd F. Smith, 1955
  - V. chrysanthemum stunt
    - Brierley, Philip, 1953
  - V. cineraria mosaic
    - Jones, Leon K., 1944
  - V. citrus tristeza
    - Bennett, C. W. and A. S. Costa, 1949
    - Knorr, L. C., 1956
  - V. cowpea mosaic
    - Anderson, C. W., 1955
    - Capoor, S. P. and P. M. Varma, 1956
    - Dale, W. T., 1949
    - McLean, D. M., 1941
    - Yu, T. F., 1946
  - V. cucumber green mottle mosaic
    - Ainsworth, G. C., 1935
    - Vasudeva, R. S., S. P. Raychaudhuri and Jagannath Singh, 1949
  - V. cucumber mosaic
    - Adsuar, Jose and A. Cruz Miret, 1950
    - Doolittle, S. P. and W. W. Gilbert, 1918
    - Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
    - McKnight, T., 1953
    - McWhorter, F. P. and H. H. Millsap, 1954
    - Vasudeva, R. Sahai and T. B. Lal, 1943
  - V. (cucumber) O. S. C. isolate 606 \*
    - Porter, Clark A. and Frank P. McWhorter, 1951
  - V. dandelion yellow mosaic
    - Kassanis, B., 1947
  - V. eggplant mosaic
    - Ferguson, I. A. C., 1951
  - V. filaree red leaf
    - Frazier, Norman W., 1951
  - V. gladiolus \*
    - Snow, Gordon F., 1955
  - V. hibiscus yellow vein mosaic
    - Capoor, S. P. and P. M. Varma, 1950
  - V. hydrangea \*
    - Brierley, Philip, 1954
  - V. hydrangea ring spot
    - Brierley, Philip and Paul Lorentz, 1956, 1957
  - V. iris mosaic
    - Brierley, Philip and Frank P. McWhorter, 1936
  - V. lettuce mosaic
    - Ainsworth, G. C. and L. Ogilvie, 1939
  - V. lucerne mosaic
    - Porter, D. R., 1935
  - V. maize leaf fleck
    - Stoner, Warren N., 1952
  - V. maize streak
    - Finley, A. M., 1954
  - V. malva yellow vein mosaic \*
    - Costa, A. S. and James E. Duffus, 1957
  - V. muskmelon mosaic
    - Anderson, C. W., 1954
    - Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
    - Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947
  - V. nicotiana glutinosa mosaic \*
    - Allard, H. A., 1916
  - V. nothoscordum mosaic
    - McKinney, H. H., 1950
  - V. onion yellow dwarf
    - Henderson, D. M., 1953
  - V. orchid (cymbidium) mosaic
    - Jensen, D. D., 1951
  - V. orchid (odontoglossum) ring spot
    - Jensen, D. D. and A. Herbert Gold, 1951
  - V. orchid (vanda) mosaic
    - Murakishi, Harry H., 1952
  - V. ornithogalum mosaic
    - Smith, Floyd F. and Philip Brierley, 1944
  - V. panicum mosaic \*
    - Sill, W. H., Jr. and R. C. Pickett, 1957
  - V. papaw mosaic
    - Adsuar, Jose, 1950
  - V. papaw ring spot
    - Jensen, D. D., 1949

- Nicotiana tabacum*, L. (cont.)
- V. pea enation mosaic
    - Ainsworth, G.C., 1940
    - Chaudhuri, R.P., 1950
    - Hagedorn, D.J. and J.C. Walker, 1954
    - Johnson, Folke and Leon K. Jones, 1937
    - Osborn, H.T., 1938
    - Pierce, W.H., 1935
    - Simons, John N., 1954
    - Stubbs, M.W., 1937
  - V. pea mosaic
    - Chaudhuri, R.P., 1950
    - Hagedorn, D.J. and J.C. Walker, 1954
    - Murphy, D.M. and W.H. Pierce, 1937
    - Osborn, H.T., 1937
    - Pierce, W.H., 1935
    - Stubbs, M.W., 1937
  - V. pea mottle
    - Johnson, Folke, 1942
    - Johnson, Folke and Leon K. Jones, 1937
  - V. pea streak
    - Zaumeyer, W.J., 1938
  - V. pea wilt
    - Johnson, Folke, 1942
  - V. pelargonium ring spot \*
    - Hollings, M., 1957
  - V. peony leaf curl \*
    - Brierley, Philip and Paul Lorentz, 1957
  - V. physalis floridana yellow net
    - Webb, R.E., 1955
  - V. pigeon pea sterility mosaic
    - Capoor, S.P., 1952
  - V. pokeweed mosaic \*
    - Allard, H.A., 1918
  - V. potato A
    - Koch, Karl and James Johnson, 1935
    - Schultz, E.S. and Donald Folsom, 1923
  - V. potato leaf roll
    - Koch, Karl and James Johnson, 1935
    - Quanjer, H.M., 1920
  - V. potato leaf rolling
    - Dykstra, T.P., 1939
  - V. potato M \*
    - Bagnall, R.H. and R.H. Larson, 1957
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
  - V. potato paracrinkle
    - Bagnall, R.H. and R.H. Larson, 1957
    - Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
    - Kassanis, B., 1955
  - V. potato Y
    - Dennis, R.W.G., 1939
  - V. primula mosaic
    - Severin, Henry H.P. and C.M. Tompkins, 1950
    - Tompkins, C.M. and John T. Middleton, 1941
  - V. prunus E \*
    - Fulton, Robert W., 1957
  - V. raspberry necrotic fern leaf mosaic
    - Chamberlain, G.C., 1941
  - V. red clover vein mosaic
    - Hagedorn, D.J. and E.W. Hanson, 1951
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - Osborn, H.T., 1937
    - Roberts, D.A., 1957
  - V. soybean mosaic
    - Conover, Robert A., 1948
    - Pierce, W.H., 1935
  - V. spinach yellow dwarf
    - Severin, Henry H.P. and Donald H. Little, 1947
  - V. squash mosaic
    - Freitag, J.H., 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. squash mosaic (southern)
    - Anderson, C.W., 1951
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. sweet potato feathery mottle
    - Doolittle, S.P. and L.L. Harter, 1945
    - Webb, Raymon E., 1954
  - V. sweet potato mosaic
    - Borders, H.I. and T.J. Ratcliff, 1954
  - V. teasel mosaic
    - Stoner, Warren N., 1951
  - V. tithonia rotundifolia mosaic \*
    - Cook, M.T., 1936
- N. tabacum*, L. (cont.)
- V. tobacco mosaic
    - Valleau, W.D., 1935
  - V. tomato big bud
    - Samuel, G., J.G. Bald and C.M. Eardley, 1933
  - V. tomato twisted leaf
    - Ferguson, I.A.C., 1951
  - V. tulip breaking
    - Brierley, Philip and S.P. Doolittle, 1940
  - V. turnip mosaic
    - LeBeau, Francis J. and J.C. Walker, 1945
    - Sylvester, Edward S., 1953
    - Takahashi, William N., 1949
    - Tompkins, C.M., 1938
  - V. turnip rosette \*
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. watermelon mosaic
    - Anderson, C.W., 1954
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. Wisconsin pea streak
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
- N. tabacum* x *N. glutinosa*, L.
- V. cucumber green mottle mosaic
    - Fulton, Robert W., 1950
  - V. turnip mosaic
    - LeBeau, Francis J. and J.C. Walker, 1945
- N. tomentosiformis*, Goodspeed
- V. tobacco etch
    - Holmes, Francis O., 1946
- N. trigonophylla*, Dun.
- V. cauliflower mosaic
    - Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. tobacco stunt \*
    - Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- N. velutina*, Wheeler
- V. tobacco yellow dwarf
    - Hill, A.V. and M. Mandryk, 1954
- N. wigandioides*, Koch & Fint
- V. tobacco etch
    - Holmes, Francis O., 1946
- NIGELLA ((Tourn.)) L. 1735 (Ranunculaceae)
- N. damascena*, L.
- V. cucumber mosaic
    - Wellman, F.L., 1935
- NOTHOSCORDUM Kunth 1843 (Liliaceae)
- N. fragrans*, (Vent.) Kunth
- V. cucumber mosaic
    - Brierley, Philip and Floyd F. Smith, 1944
  - V. lily symptomless
    - Brierley, Philip and Floyd F. Smith, 1944
  - V. tulip breaking
    - Brierley, Philip and Floyd F. Smith, 1944
- OCHROMA Sw. 1788 (Bombacaceae)
- O. lagopus*, Sw.
- V. cacao swollen shoot
    - Tinsley, T.W. and A.L. Wharton, 1958
- OCIMUM L. 1737 (Labiatae)
- O. basilicum*, L.
- V. citrus tristeza
    - Knorr, L.C., 1956
- OCTOLOBUS Welw. 1869 (Sterculiaceae)
- O. angustatus*, Hutchinson
- V. cacao swollen shoot
    - Tinsley, T.W. and A.L. Wharton, 1958
- OENOTHERA L. 1735 (Onagraceae)
- O. lamarckiana*, Hort.
- V. tobacco etch
    - Holmes, Francis O., 1946
  - V. tobacco mosaic
    - Holmes, Francis O., 1946
- O. missouriensis*, Sims
- V. pea mosaic
    - Murphy, D.M. and W.H. Pierce, 1937

- OMPHALOCARPUM Beauv. 1805 (Sapotaceae)  
 O. procerum, Beauv.  
   V. cacao swollen shoot  
     Tinsley, T.W. and A.L. Wharton, 1958
- ONOBRYCHIS L. 1735 (Leguminosae)  
 O. spp.  
   V. lucerne witches' broom  
     Menzies, J.D., 1946  
 O. transcaucasica, Grossheim  
   V. lucerne witches' broom  
     Klostermeyer, E.C. and J.D. Menzies, 1951  
 O. viciaefolia, Scop.  
   V. lucerne witches' broom  
     Klostermeyer, E.C. and J.D. Menzies, 1951
- OPHIOPOGON Ker-Gawl. 1807 (Liliaceae)  
 O. jaburan, Lodd.  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944
- ORCHIS ((Tourn.)) L. 1735 (Orchidaceae)  
 O. spp.  
   V. wheat streak mosaic  
     Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- ORNITHOGALUM ((Tourn.)) L. 1735 (Liliaceae)  
 O. spp.  
   V. wheat streak mosaic  
     Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 O. thyrsoides, Jacq.  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
     Smith, Floyd F. and Philip Brierley, 1944  
   V. iris mosaic  
     Smith, Floyd F. and Philip Brierley, 1944  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. narcissus white streak \*  
     Smith, Floyd F. and Philip Brierley, 1944  
   V. nothoscordum mosaic  
     McKinney, H.H., 1950  
   V. onion yellow dwarf  
     Smith, Floyd F. and Philip Brierley, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944  
     Smith, Floyd F. and Philip Brierley, 1944
- ORYZA L. 1735 (Gramineae)  
 O. sativa, L.  
   V. cucumber mosaic  
     Adsuar, Jose and A. Cruz Miret, 1950  
     McWhorter, F.P. and H.H. Millsap, 1954  
     Wellman, F.L., 1935  
   V. sugarcane mosaic  
     Brandes, E.W. and Peter J. Klapaak, 1923  
   V. wheat streak mosaic  
     Kahn, Robert P. and Ottie J. Dickerson, 1957
- ORYZOPSIS Michx. 1803 (Gramineae)  
 O. hymenoides, (Roem. & Schult.) Ricker  
   V. barley yellow dwarf  
     Bruehl, G.W. and H.V. Toko, 1957  
     Oswald, John W. and Byron R. Houston, 1953
- OXALIS L. 1737 (Oxalidaceae)  
 O. corniculata, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946  
 O. repens, Thunb.  
   V. tobacco ring spot  
     Wingard, S.A., 1928  
 O. spp.  
   V. beet curly top  
     Bennett, C.W. and A.S. Costa, 1949
- O. spp. (cont.)  
   V. citrus tristeza  
     Bennett, C.W. and A.S. Costa, 1949  
   V. tropaeolum mosaic  
     Silberschmidt, Karl, 1953
- O. stricta, L.  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946
- PACHIRA Aubl. 1775 (Bombacaceae)  
 P. oleagina, Decne.  
   V. cacao swollen shoot  
     Tinsley, T.W. and A.L. Wharton, 1958
- PACHYRHIZUS Rich. ex DC. 1825 (Leguminosae)  
 P. tuberosus, Spreng.  
   V. cowpea mosaic  
     Yu, T.F., 1946
- PANCRATIUM Dill. ex L. 1735 (Amaryllidaceae)  
 P. maritimum, L.  
   V. narcissus mosaic  
     Haasis, Frank A., 1939  
   V. ornithogalum mosaic  
     Smith, Floyd F. and Philip Brierley, 1944
- PANICUM L. 1735 (Gramineae)  
 P. barbinode, Trin.  
   V. cucumber mosaic  
     Wellman, F.L., 1935  
   V. sugarcane mosaic  
     Brandes, E.W. and Peter J. Klapaak, 1923  
 P. capillare, L.  
   V. agropyron mosaic  
     Slykhuis, J.T., 1952  
   V. wheat spot mosaic \*  
     Slykhuis, John T., 1956  
 P. colonum, L.  
   V. rice and corn leaf-gall \*  
     Agati, Julian A. and Carlos A. Calica, 1950  
 P. depauperatum, Muhl.  
   V. panicum mosaic \*  
     Sill, W.H., Jr. and R.C. Pickett, 1957  
 P. maximum, Jacq.  
   V. panicum mosaic \*  
     Sill, W.H., Jr. and R.C. Pickett, 1957  
   V. wheat streak mosaic  
     Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 P. miliaceum, L.  
   V. agropyron mosaic  
     Slykhuis, J.T., 1952  
   V. wheat spot mosaic \*  
     Slykhuis, John T., 1956  
   V. wheat streak mosaic  
     Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
     Slykhuis, J.T., 1952  
 P. virgatum, L.  
   V. wheat streak mosaic  
     Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- PAPAVER Tourn. ex L. 1735 (Papaveraceae)  
 P. nudicaule, L.  
   V. radish mosaic  
     Tompkins, C.M., 1939  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. turnip mosaic  
     Tompkins, C.M. and H. Rex Thomas, 1938  
 P. orientale, L.  
   V. cabbage black ring spot  
     Tompkins, C.M., M.W. Gardner and H. Rex  
     Thomas, 1938  
   V. cucumber mosaic  
     Wellman, F.L., 1935  
   V. primula mosaic  
     Tompkins, C.M. and John T. Middleton, 1941  
   V. radish mosaic  
     Tompkins, C.M., 1939  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946

- Papaver orientale*, L. (cont.)  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- P. rhoeas*, L.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. turnip crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- P. somniferum*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- P. spp.*  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950
- PARTHENIUM** L. 1735 (Compositae)
- P. argentatum*, A. Gray  
 V. aster yellows  
 Severin, Henry H.P., 1945  
 V. beet curly top  
 Severin, Henry H.P., 1945  
 V. beet mosaic  
 Severin, Henry H.P., 1945  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. celery mosaic  
 Severin, Henry H.P., 1945  
 V. cucumber mosaic  
 Severin, Henry H.P., 1945  
 V. cucumber western mosaic \*  
 Severin, Henry H.P., 1945  
 V. lucerne mosaic  
 Severin, Henry H.P., 1945
- PASPALUM** L. 1759 (Gramineae)
- P. dilatatum*, Poir.  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- P. spp.*  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957
- PASSIFLORA** L. 1735 (Passifloraceae)
- P. caerulea*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum latent \*  
 Hollings, M., 1957
- P. edulis*, Sims  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- P. foetida*, L.  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. papaw ring spot  
 Jensen, D.D., 1949
- P. pfordtii*, X Hort. ex Degener  
 V. papaw ring spot  
 Jensen, D.D., 1949
- PASTINACA** L. 1737 (Umbelliferae)
- P. sativa*, L.  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946
- P. sativa*, L. (cont.)  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- PEDILANTHUS** Neck. 1790 (Euphorbiaceae)
- P. tithymaloides*, Poit.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- PELARGONIUM** L'Herit. 1787 (Geraniaceae)
- P. domesticum*, Bailey  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- P. hortorum*, Bailey (X *P. zonale*, Willd.)  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. filaree red leaf  
 Frazier, Norman W., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tropaeolum mosaic  
 Silberschmidt, Karl, 1953
- P. odoratissimum*, Ait.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- P. zonale*, Willd.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. turnip mosaic  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- PENNISETUM** Rich. 1805 (Gramineae)
- P. glaucum*, (L.) R. Br.  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- P. purpureum*, Schumacher  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923
- PENSTEMON**  
 (PENTSTEMON) Mitch. 1748 (Scrophulariaceae)
- P. barbatus*, Roth  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938

- PEPEROMIA Ruiz & Pav. 1794 (Piperaceae)  
*P. spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- PERSEA Plum. ex L. 1737 (Lauraceae)  
*P. americana*, Mill.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- PERSICARIA ((Tourn.)) L. 1735 (Polygonaceae)  
*P. hydropiperoides*, Michx. \*  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- PETROSELINUM Hoffm. 1814 (Umbelliferae)  
*P. crispum*, (Mill.) Nym.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. squash mosaic  
 Freitag, J.H., 1956  
*P. hortense*, Hoffm.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*P. sativum*, Hoffm.  
 V. dandelion yellow mosaic  
 Kassanis, B., 1947
- PETUNIA Juss. 1803 (Solanaceae)  
*P. hybrida*, Vilm.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Pierce, W.H., 1935  
 Zaumeyer, W.J., 1940  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellow wilt  
 Bennett, C.W. and Carlos Munck, 1946  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 McLean, D.M., 1941  
 Yu, T.F., 1946  
 V. cucumber green mottle mosaic  
 Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
 V. cucumber mosaic  
 Vasudeva, R. Sahai and T.B. Lal, 1943  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1957  
 V. iris mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1953  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. pea enation mosaic  
 Pierce, W.H., 1935  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 Pierce, W.H., 1935  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957
- P. hybrida*, Vilm. (cont.)  
 V. pokeweed mosaic \*  
 Allard, H.A., 1918  
 V. potato A  
 Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946  
 V. potato X  
 Vasudeva, R. Sahai and T.B. Lal, 1944  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. soybean mosaic  
 Pierce, W.H., 1935  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco ring spot  
 Rosberg, David W., 1953  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956  
 V. tropaeolum mosaic  
 Silberschmidt, Karl, 1953  
 V. tulip breaking  
 McWhorter, F.P., 1935  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M. and H. Rex Thomas, 1938
- P. violacea*, Lindl.  
 V. cucumber mosaic  
 Johnson, J., 1926
- PHACELIA Juss. 1789 (Hydrophyllaceae)  
*P. campanularia*, Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- PHALARIS L. 1735 (Gramineae)  
*P. arundinacea*, L.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, J.T., 1952  
*P. arundinacea* x *P. tuberosa*, L.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*P. tuberosa*, L.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- PHASEOLUS ((Tourn.)) L. 1735 (Leguminosae)  
*P. aconitifolius*, Jacq.  
 V. bean common mosaic  
 Reddick, D. and V.B. Stewart, 1919  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*P. acutifolius*, A. Gray, var. *latifolius*, Freeman  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*P. angularis*, (Willd.) W.F. Wright  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935

- Phaseolus angularis, (Willd.) W.F. Wright  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. aureus, Roxb.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. bean common mosaic  
 Nelson, Ray, 1932  
 Reddick, D. and V.B. Stewart, 1919  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 Zaumeyer, W.J., 1940  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. broad bean mottle  
 Yu, T.F., 1939  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 McLean, D.M., 1941  
 V. pea enation mosaic  
 Osborn, H.T., 1938  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 Osborn, H.T., 1937  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover vein mosaic  
 Osborn, H.T., 1937  
 V. soybean mosaic  
 Conover, Robert A., 1948  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- P. calcaratus, Roxb.  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Pierce, W.H., 1934  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. cucumber mosaic  
 Harter, L.L., 1938  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. coccineus, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. bean southern mosaic  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 V. bean yellow mosaic  
 Baggett, James R., 1956  
 Conover, Robert A., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J. and H.H. Fisher, 1953  
 P. coccineus, L. (cont.)  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. soybean mosaic  
 Conover, Robert A., 1948  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- P. lathyroides, L.  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. limensis, MacF.  
 V. bean yellow mosaic  
 Pierce, W.H., 1934  
 V. canna mosaic  
 Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
 V. cucumber mosaic  
 Simons, John N., 1957  
 Wellman, F.L., 1935  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- P. limensis var. limenanus, Bailey \*  
 V. squash mosaic  
 Freitag, J.H., 1956
- P. lunatus, L.  
 V. alsike clover mosaic  
 Zaumeyer, W.J., 1940  
 V. bean common mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow mosaic  
 Conover, Robert A., 1948  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. cowpea mosaic  
 McLean, D.M., 1941  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. lucerne mosaic  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. potato Y  
 Roque, Arturo and Jose Adsuar, 1941  
 V. potato yellow dwarf  
 Hougas, R.W., 1951  
 V. red clover mosaic \*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
 V. soybean mosaic  
 Conover, Robert A., 1948

- Phaseolus lunatus*, L., f. *macrocarpus*, (Benth.) Van Ess.
- V. bean common mosaic  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. bean pod mottle  
Zaunmeyer, W. J. and H. Rex Thomas, 1948
  - V. bean southern mosaic  
Zaunmeyer, W. J. and L. L. Harter, 1943
  - V. bean yellow mosaic  
Pierce, W. H., 1934  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. bean yellow stipple  
Zaunmeyer, W. J. and H. Rex Thomas, 1950
  - V. datura distortion mosaic  
Capoor, S. P. and P. M. Varma, 1952
  - V. lucerne mosaic  
Zaunmeyer, W. J., 1938  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. pea streak  
Zaunmeyer, W. J., 1938
  - V. red clover mosaic \*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- P. mungo*, L.
- V. bean common mosaic  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. bean pod mottle  
Zaunmeyer, W. J. and H. Rex Thomas, 1948
  - V. bean southern mosaic  
Zaunmeyer, W. J. and L. L. Harter, 1943
  - V. bean yellow mosaic  
Conover, Robert A., 1948  
Zaunmeyer, W. J. and H. H. Fisher, 1953  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. cowpea mosaic  
Capoor, S. P. and P. M. Varma, 1956
  - V. pea streak  
Zaunmeyer, W. J., 1938
  - V. red clover mosaic \*  
Zaunmeyer, W. J. and B. L. Wade, 1935
  - V. soybean mosaic  
Conover, Robert A., 1948
  - V. tobacco streak  
Cooper, W. E., 1949
- P. trilobus*, Ait.
- V. cowpea mosaic  
Capoor, S. P. and P. M. Varma, 1956
- P. vulgaris*, L.
- V. abutilon infectious variegation  
Bird, Julio, 1958
  - V. anemone brown ring \*  
Hollings, M., 1958
  - V. anemone mosaic \*  
Hollings, M., 1957
  - V. barley stripe mosaic  
McKinney, H. H., 1953  
Sill, W. H., Jr. and E. D. Hansing, 1955
  - V. bayberry yellows  
Raychaudhuri, S. P., 1953
  - V. beet curly top  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and A. S. Costa, 1949  
Carsner, E., 1919  
Giddings, N. J., 1938  
Murphy, Donald M. and W. H. Pierce, 1938
  - V. beet mosaic  
Bennett, C. W., 1949  
Pound, Glenn S., 1947  
Severin, Henry H. P. and Roger M. Drake, 1948
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. beet yellow wilt  
Bennett, C. W. and Carlos Munck, 1946
  - V. broad bean mottle  
Yu, T. F., 1939
  - V. cacao swollen shoot  
Tinsley, T. W. and A. L. Wharton, 1958
  - V. carnation mosaic  
Brierley, Philip and Floyd F. Smith, 1955, 1957
  - V. carnation mottle  
Brierley, Philip and Floyd F. Smith, 1957  
Kassanis, B., 1955
  - V. carnation vein mottle  
Kassanis, B., 1955
  - V. cauliflower mosaic  
Alvarez-Garcia, L. A., 1951
  - V. chilli (pepper) mosaic  
Dale, W. T., 1954
  - V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
  - V. chrysanthemum latent \*  
Hollings, M., 1957
  - V. chrysanthemum ring spot  
Brierley, Philip and Floyd F. Smith, 1955
  - V. chrysanthemum stunt  
Brierley, Philip, 1953
  - V. citrus tristeza  
Bennett, C. W. and A. S. Costa, 1949
  - V. cowpea mosaic  
Anderson, C. W., 1955  
Capoor, S. P. and P. M. Varma, 1956  
Dale, W. T., 1949  
McLean, D. M., 1941  
Yu, T. F., 1946
  - V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C. W., 1951  
Berkeley, G. H., 1953  
Bridgman, G. H. and J. C. Walker, 1952  
Brierley, Philip, 1952  
Doolittle, S. P. and W. W. Gilbert, 1918  
Govier, D. A., 1957  
Harter, L. L., 1936, 1938  
Johnson, E. M., 1930  
Milbrath, J. A. and Roy A. Young, 1956  
Nienow, Inez, 1948  
Pound, Glenn S. and J. C. Walker, 1948  
Simons, John N., 1957  
Wellman, F. L., 1934, 1935  
Whipple, O. C. and J. C. Walker, 1941
  - V. (cucumber) O. S. C. isolate 606 \*  
Porter, Clrak A. and Frank P. McWhorter, 1951
  - V. datura distortion mosaic  
Capoor, S. P. and P. M. Varma, 1952
  - V. dodder latent mosaic  
Bennett, C. W., 1944
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. hibiscus yellow vein mosaic  
Capoor, S. P. and P. M. Varma, 1950
  - V. hydrangea ring spot  
Brierley, Philip and Paul Lorentz, 1956, 1957
  - V. lettuce mosaic  
Ainsworth, G. C., 1940
  - V. lucerne mosaic  
Harrison, Arthur L., 1935
  - V. lucerne witches' broom  
Menzies, J. D., 1946
  - V. muskmelon mosaic  
Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947
  - V. nicotiana glutinosa root necrosis \*  
Cetas, Robert C. and A. Frank Ross, 1952
  - V. nothoscordum mosaic  
McKinney, H. H., 1950
  - V. onion yellow dwarf  
Henderson, W. J., 1935
  - V. orchid (cymbidium) mosaic  
Jensen, D. D., 1951
  - V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952
  - V. papaw mosaic  
Adsuar, Jose, 1950
  - V. pea die back \*  
Zaunmeyer, W. J., 1939
  - V. pea enation mosaic  
Ainsworth, G. C., 1940  
Chaudhuri, R. P., 1950  
Hagedorn, D. J. and J. C. Walker, 1954  
McEwen, F. L. and W. T. Schroeder, 1956  
Osborn, H. T., 1938  
Pierce, W. H., 1935, 1937  
Simons, John N., 1954  
Stubbs, M. W., 1936, 1937
  - V. pea mosaic  
Ainsworth, G. C., 1940  
Chaudhuri, R. P., 1950



- Phaseolus vulgaris*, L. (cont.)
- V. pea mosaic
    - Hagedorn, D.J. and J.C. Walker, 1954
    - Harrison, Arthur L., 1935
    - Murphy, D.M. and W.H. Pierce, 1937
    - Pierce, W.H., 1935, 1937
    - Stubbs, M.W., 1936, 1937
    - Zaumeier, W.J. and B.L. Wade, 1936
  - V. pea stem streak \*
    - Zaumeier, W.J., 1939
  - V. pea streak
    - Zaumeier, W.J., 1938
  - V. pea wilt
    - Pierce, W.H., 1935
  - V. pea yellow mosaic \*
    - Ainsworth, G.C., 1940
  - V. pelargonium ring spot \*
    - Hollings, M., 1957
  - V. pigeon pea sterility mosaic
    - Capoor, S.P., 1952
  - V. potato X
    - Folson, Donald and Reiner Bonde, 1937
    - Johnson, E.M., 1930
  - V. potato Y
    - Bald, J.G. and D.O. Norris, 1945
    - Johnson, E.M., 1930
    - Peterson, Paul D. and H.H. McKinney, 1938
    - Roque, Arturo and Jose Adsuar, 1941
  - V. red clover mosaic \*
    - Zaumeier, W.J., 1933
    - Zaumeier, W.J. and B.L. Wade, 1933, 1935, 1936
  - V. red clover vein mosaic
    - Hagedorn, D.J. and E.W. Hanson, 1951
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
    - Osborn, H.T., 1937
    - Roberts, D.A., 1957
  - V. red currant ring spot
    - Klesser, P.J., 1951
  - V. soybean mosaic
    - Conover, Robert A., 1948
    - Harrison, Arthur L., 1935
    - Kendrick, James B. and Max W. Gardner, 1924
    - Pierce, W.H., 1935
  - V. squash mosaic
    - Freitag, J.H., 1956
  - V. squash mosaic (southern)
    - Anderson, C.W., 1951
  - V. stone fruit \*
    - Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. sweet potato mosaic
    - Borders, H.I. and T.J. Ratcliff, 1954
  - V. tobacco coarse etch
    - Johnson, E.M., 1930
  - V. tobacco etch
    - Anderson, C.W., 1954
    - Holmes, Francis O., 1946
    - Johnson, E.M., 1930
  - V. tobacco green mosaic
    - Peterson, Paul D. and H.H. McKinney, 1938
  - V. tobacco mosaic
    - Holmes, Francis O., 1941
    - Johnson, E.M., 1930
    - McKinney, H.H., 1952
    - Price, W.C. and S.B. Fenne, 1951
  - V. tobacco ring spot
    - Johnson, E.M., 1930
  - V. tomato aspermy
    - Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
  - V. tomato ring spot
    - Samson, R.W. and E.P. Imle, 1942
  - V. tomato spotted wilt
    - Parris, G.K., 1940
    - Smith, Kenneth M., 1931, 1932
  - V. turnip crinkle
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip rosette \*
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic
    - Broadbent, L. and G.D. Heathcote, 1958
  - V. Wisconsin pea streak
    - Hagedorn, D.J. and J.C. Walker, 1949, 1954
- PHILADELPHUS ((Riv.)) L. 1735 (Saxifragaceae)
- P. coronarius, L.
    - V. tobacco ring spot no. 2
      - Brierley, Philip, 1954
  - P. lewisii, Pursh, var. californicus, Gray \*
    - V. lucerne dwarf
      - Freitag, J.H., 1951
- PHILODENDRON Schott 1829 (Araceae)
- P. spp.
    - V. cucumber mosaic
      - Brierley, Philip and Floyd F. Smith, 1944
    - V. lily symptomless
      - Brierley, Philip and Floyd F. Smith, 1944
    - V. tulip breaking
      - Brierley, Philip and Floyd F. Smith, 1944
    - V. wheat streak mosaic
      - Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- PHLEUM L. 1735 (Gramineae)
- P. boehmeri, Wibel
    - V. barley yellow dwarf
      - Bruehl, G.W. and H.V. Toko, 1957
  - P. phleoides, (L.) Karst.
    - V. barley yellow dwarf
      - Bruehl, G.W. and H.V. Toko, 1957
  - P. pratense, L.
    - V. agropyron mosaic
      - Slykhuis, J.T., 1952
    - V. barley stripe mosaic
      - Slykhuis, J.T., 1952
    - V. barley yellow dwarf
      - Oswald, John W. and Byron R. Houston, 1953
    - V. sugarcane mosaic
      - Brandes, E.W. and Peter J. Klaphaak, 1923
    - V. tobacco ring spot
      - Wingard, S.A., 1928
    - V. wheat streak mosaic
      - Slykhuis, J.T., 1952, 1955
- PHYLLANTHUS L. 1737 (Euphorbiaceae)
- P. corcovadensis, Muell.
    - V. citrus tristeza
      - Bennett, C.W. and A.S. Costa, 1949
- PHYLLOSTACHYS Sieb. & Zucc. 1843 (Gramineae)
- P. pubescens \*
    - V. sugarcane mosaic
      - Brandes, E.W. and Peter J. Klaphaak, 1923
  - P. quilloi, A. & C. Riviere \*
    - V. sugarcane mosaic
      - Brandes, E.W. and Peter J. Klaphaak, 1923
- PHLOX L. 1737 (Polemoniaceae)
- P. drummondii, Hook.
    - V. anemone brown ring \*
      - Hollings, M., 1958
    - V. anemone mosaic \*
      - Hollings, M., 1957
    - V. beet mosaic
      - Pound, Glenn S., 1947
    - V. chrysanthemum B (mild mosaic) \*
      - Hollings, M., 1957
    - V. pea mosaic
      - Murphy, D.M. and W.H. Pierce, 1937
    - V. prunus A \*
      - Fulton, Robert W., 1957
    - V. prunus E \*
      - Fulton, Robert W., 1957
    - V. prunus G \*
      - Fulton, Robert W., 1957
    - V. red currant ring spot
      - Klesser, P.J., 1951
    - V. squash mosaic
      - Freitag, J.H., 1956
    - V. tobacco etch
      - Holmes, Francis O., 1946
    - V. tomato ring spot
      - Samson, R.W. and E.P. Imle, 1942

- PHYSALIS L. 1735 (Solanaceae)
- P. aequata*, Jacq. f. ex Nees  
 V. prunus A \*  
 Fulton, Robert W., 1957
- P. alkekengi*, L.  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952
- P. angulata*, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- P. floridana*, Rydb.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato M \*  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954
- P. franchetti*, Mast.  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. potato X  
 Smith, J. Henderson, 1928
- P. heterophylla*, Nees  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 V. potato spindle tuber  
 Goss, R.W., 1931
- P. ixocarpa*, Brot.  
 V. potato leaf roll  
 MacCarthy, H.R., 1954
- P. longifolia*, Nutt.  
 V. potato Y  
 Koch, K.L., 1933
- P. peruviana*, L.  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. pigeon pea sterility mosaic  
 Capoor, S.P., 1952  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. tobacco leaf curl  
 Bird, Julio, 1957
- P. philadelphica*, Lam.  
 V. potato M \*  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- P. pubescens*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937
- P. pubescens*, L. (cont.)  
 V. pokeweed mosaic \*  
 Allard, H.A., 1918  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato leaf roll  
 MacCarthy, H.R., 1954  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco ring spot  
 Johnson, E.M., 1930
- P. spp.*  
 V. beet curly top  
 Costa, A.S., 1952  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. potato leaf roll  
 Dykstra, T.P., 1933
- P. virginiana*, Mill.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- P. wrightii*, A. Gray  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- PHYSOSTEGIA Benth. 1829 (Labiatae)
- P. virginiana*, (L.) Benth.  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- PHYTOLACCA Tourn. ex L. 1735 (Phytolaccaceae)
- P. americana*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Pound, Glenn S., 1947  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. lucerne mosaic  
 Johnson, E.M., 1946  
 V. tobacco ring spot  
 Henderson, R.G. and S.A. Wingard, 1931  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. decandra*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Johnson, J., 1926, 1927  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916  
 V. potato X  
 Johnson, James, 1927  
 V. potato Y  
 Johnson, E.M., 1930  
 Johnson, James, 1927  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
 V. tobacco mosaic  
 Allard, H.A., 1916, 1918  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 V. tobacco ring spot  
 Fenne, S.B., 1931  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Smith, Kenneth M., 1931

- Phytolacca rigida, Small  
V. cowpea mosaic  
Anderson, C.W., 1955
- PIAROPUS Raf. 1836 (Pontederiaceae)  
P. crassipes, Raf.  
V. cucumber mosaic  
Wellman, F.L., 1935
- PISUM ((Tourn.)) L. 1735 (Leguminosae)  
P. sativum, L.  
V. anemone mosaic \*  
Hollings, M., 1957  
V. bean common mosaic  
Ainsworth, G.C., 1940  
Doolittle, S.P. and F.R. Jones, 1925  
Snyder, W.C., 1942  
Zaumeier, W.J. and B.L. Wade, 1933, 1935  
V. bean mosaic 3 \*  
Zaumeier, W.J. and B.L. Wade, 1935  
V. bean pod mottle  
Zaumeier, W.J. and H. Rex Thomas, 1948  
V. bean southern mosaic  
Zaumeier, W.J. and L.L. Harter, 1943  
V. bean yellow mosaic  
Afanasiev, M.M. and H.E. Morris, 1952  
Doolittle, S.P. and F.R. Jones, 1925  
Zaumeier, W.J., 1952  
Zaumeier, W.J. and H.H. Fisher, 1953  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. cineraria mosaic  
Jones, Leon K., 1944  
V. cowpea mosaic  
Anderson, C.W., 1955  
McLean, D.M., 1941  
Yu, T.F., 1946  
V. cucumber green mottle mosaic  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949  
V. cucumber mosaic  
Berkeley, G.H., 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Burnett, G., 1934  
Govier, D.A., 1957  
Harter, L.L., 1938  
Johnson, E.M., 1930  
Wellman, F.L., 1935  
V. dodder latent mosaic  
Bennett, C.W., 1944  
V. filaree red leaf  
Frazier, Norman W., 1951  
V. kaimi clover disease \*  
Murakishi, Harry H., 1952  
V. lucerne mosaic  
Pierce, W.H., 1937  
Zaumeier, W.J. and B.L. Wade, 1933, 1935  
V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952  
V. potato X  
Johnson, E.M., 1930  
V. potato Y  
Bald, J.G. and D.O. Norris, 1945  
Johnson, E.M., 1930  
V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941  
V. prunus B \*  
Fulton, Robert W., 1957  
V. prunus E \*  
Fulton, Robert W., 1957  
V. radish mosaic  
Tompkins, C.M., 1939  
V. red currant ring spot  
Klessner, P.J., 1951  
P. sativum, L. (cont.)  
V. soybean mosaic  
Pierce, W.H., 1935  
V. squash mosaic  
Freitag, J.H., 1956  
V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
V. tobacco coarse etch  
Johnson, E.M., 1930  
V. tobacco etch  
Anderson, C.W., 1954  
Holmes, Francis O., 1946  
Johnson, E.M., 1930  
V. tobacco mosaic  
Das, C.R. and S.P. Raychaudhuri, 1953  
Holmes, Francis O., 1946  
Johnson, E.M., 1930  
V. tobacco ring spot  
Benedict, W.G., 1955  
Johnson, E.M., 1930  
Wingard, S.A., 1928  
V. tomato spotted wilt  
Parris, G.K., 1940  
V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938  
P. sativum var. arvense, (L.) Poir.  
V. cowpea mosaic  
McLean, D.M., 1941  
Yu, T.F., 1946  
V. soybean mosaic  
Kendrick, James B. and Max W. Gardner, 1924  
P. sativum var. saccharatum, Hort.  
V. bean common mosaic  
Pierce, W.H., 1935  
V. soybean mosaic  
Pierce, W.H., 1935
- PLANTAGO Tourn. L. 1735 (Plantaginaceae)  
P. coronopus, L.  
V. beet yellows  
Roland, G. and J. Tahon, 1961  
P. erecta, Morris  
V. beet curly top  
Giddings, N.J., 1938  
P. lanceolata, L.  
V. anemone brown ring \*  
Hollings, M., 1958  
V. aster yellows  
Kunkel, L.O., 1928  
V. beet mosaic  
Bennett, C.W., 1949  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. chrysanthemum latent \*  
Hollings, M., 1957  
V. lucerne dwarf  
Freitag, J.H., 1951  
V. pea mottle  
Johnson, Folke, 1942  
V. pea wilt  
Johnson, Folke, 1942  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942  
P. major, L.  
V. beet mosaic  
Severin, Henry H.P. and Roger M. Drake, 1947  
V. beet yellow net  
Sylvester, Edward S., 1948  
V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
V. filaree red leaf  
Frazier, Norman W., 1951  
V. onion yellow dwarf  
Henderson, W.J., 1935  
V. orchid (cymbidium) mosaic  
Jensen, D.D., 1951  
V. orchid (odontoglossum) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951  
V. papaw mosaic  
Adsuar, Jose, 1950

- Plantago major*, L. (cont.)  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Fenne, S. B., 1931  
 Henderson, R. G. and S. A. Wingard, 1931  
 Wingard, S. A., 1928  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imle, 1942
- P. media*, L.  
 V. tomato aspermy  
 Hollings, M., 1955
- P. rugelii*, Dcne.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- P. spp.*  
 V. cucumber mosaic  
 Wellman, F. L., 1935
- P. virginica*, L.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957
- PLUCHEA Cass. 1817 (Compositae)  
*P. sericea*, Coville  
 V. beet curly top  
 Severin, Henry H. P., 1939
- POA L. 1737 (Gramineae)  
*P. amplia*, Merr.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- P. bulbosa*, L.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- P. canbyi*, (Scribn.) Piper  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- P. compressa*, L.  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957
- P. pratensis*, L.  
 V. agropyron mosaic  
 Slykhuis, J. T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J. T., 1952  
 V. barley yellow dwarf  
 Bruehl, G. W. and H. V. Toko, 1957  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
 V. lucerne dwarf  
 Freitag, J. H., 1951  
 V. sugarcane mosaic  
 Brandes, E. W. and Peter J. Klaphaak, 1923  
 V. wheat streak mosaic  
 Slykhuis, J. T., 1952, 1955
- POLANISIA Raf. 1818 (Capparidaceae)  
*P. trachysperma*, Torr. & Gray  
 V. tobacco etch  
 Holmes, Francis O., 1946
- POLYGONATUM ((Tourn.)) Adans. 1763 (Liliaceae)  
*P. spp.*  
 V. wheat streak mosaic  
 Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- POLYGONUM ((Tourn.)) L. 1735 (Polygonaceae)  
*P. acre*, H. B. & K.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. argyrocoleon*, Steud. ex Kunze  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. aviculare*, L.  
 V. cucumber mosaic  
 Harter, L. L., 1938
- P. coccineum*, Muhl.  
 V. beet yellow net  
 Sylvester, Edward S., 1948
- P. heterophyllum*, Soland. ex Meissn.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. hydropiper*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco ring spot  
 Henderson, R. G. and S. A. Wingard, 1931
- P. lapathifolium*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. nodosum*, Pers.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. persicaria*, L.  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- P. scandens*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947
- P. spp.*  
 V. tobacco ring spot  
 Fenne, S. B., 1931
- POLYPODIUM ((Tourn.)) L. 1753 (Polypodiaceae)  
*P. vulgare*, L.  
 V. cucumber mosaic  
 Wellman, F. L., 1935
- POLYPOGON Desf. 1798 (Gramineae)  
*P. monspeliensis*, (L.) Desf.  
 V. lucerne dwarf  
 Freitag, J. H., 1951
- PONTEDERIA L. 1735 (Pontederiaceae)  
*P. cordata*, L.  
 V. cucumber mosaic  
 Wellman, F. L., 1935
- POPULUS L. 1735 (Salicaceae)  
*P. spp.*  
 V. lucerne dwarf  
 Freitag, J. H., 1951
- PORTULACA L. 1735 (Portulacaceae)  
*P. grandiflora*, Hook.  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
 V. tobacco ring spot no. 2  
 Brierley, Philip, 1954
- P. marginata*, H. B. & K.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. oleracea*, L.  
 V. beet curly top  
 Bennett, C. W. and A. S. Costa, 1949  
 Carsner, E., 1919  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. lucerne dwarf  
 Freitag, J. H., 1951  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E. M. Hildebrand, 1947  
 V. papaw ring spot  
 Jensen, D. D., 1949  
 V. stone fruit \*  
 Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954

- Portulaca oleracea*, L. (cont.)  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950
- P. retusa*, Engelm.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. spp.*  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951
- POTENTILLA L. 1735 (Rosaceae)
- P. arguta*, Pursh.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- P. monspeliensis*, L.  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946
- P. palustris*, (L.) Scop.  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957
- PRIMULA L. 1735 (Primulaceae)
- P. auricula*, L.  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941
- P. kewensis*, W. Wats.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- P. malacoides*, Franch.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latens \*  
 Hollings, M., 1957
- P. obconica*, Hance  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. tobacco etch  
 Holmes, Francis O., 1946
- P. polyantha*, Mill.  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- P. sinensis*, Lindl.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957
- P. veris*, L.  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956
- P. vulgaris*, Huds.  
 V. cucumber mosaic  
 Govier, D.A., 1957
- PRUNELLA L. 1753 (Labiatae)
- P. vulgaris*, L.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- PRUNUS ((Tourn.)) L. 1735 (Rosaceae)  
 (AMYGDALUS) ((Tourn.)) L. 1735
- P. andersoni*, A. Gray  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. armeniaca*, L.  
 V. cherry freckle fruit disease \*  
 Williams, H.E. and J.A. Milbrath, 1955  
 V. peach blotch  
 Willison, R.S., 1946
- P. avium*, L.  
 V. peach blotch  
 Willison, R.S., 1946  
 V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagnon and James R. Breece, 1957  
 V. prune dwarf  
 Hildebrand, E.M., 1942  
 V. (sour) cherry yellows  
 Keitt, G.W. and C.N. Clayton, 1943
- P. besseyi*, Bailey  
 V. peach ring spot  
 Fink, Harry C., 1950, 1955
- P. cerasifera*, Ehrh.  
 V. peach blotch  
 Willison, R.S., 1946  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagnon and James R. Breece, 1957
- P. cerasus*, L.  
 V. peach blotch  
 Willison, R.S., 1946  
 V. peach mosaic  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach necrotic leaf spot  
 Fridlund, Paul R., 1954  
 V. prune dwarf  
 Hildebrand, E.M., 1942  
 Thomas, H.E. and E.M. Hildebrand, 1936
- P. cistena* \*  
 V. (sour) cherry yellows  
 Young, H.C., Jr., 1951
- P. demissa*, (Nutt.) Walp.  
 V. cherry little cherry  
 Wilks, Jack M. and J.A. Milbrath, 1956  
 V. lucerne dwarf  
 Freitag, J.H., 1951
- P. domestica*, L.  
 V. cherry rugose mosaic  
 Berkeley, G.H., 1950  
 V. peach blotch  
 Willison, R.S., 1946  
 V. peach ring spot  
 Moore, J. Duain and G.W. Keitt, 1944  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 V. prune dwarf  
 Moore, J. Duain and H.R. Cameron, 1956  
 V. (sour) cherry yellows  
 Moore, J. Duain and H.R. Cameron, 1956  
 Moore, J. Duain and G.W. Keitt, 1944  
 V. stone fruit necrotic ring spot \*  
 Moore, J. Duain and H.R. Cameron, 1956
- P. emarginata*, (Dougl.) Walp.  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. fasciculata*, A. Gray  
 V. peach mosaic  
 Richards, B.L. and L.C. Cochran, 1956
- P. fremonti*, S. Wats.  
 V. peach mosaic  
 Richards, B.L. and L.C. Cochran, 1956  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. ilicifolia*, (Nutt.) Walp.  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. mahaleb*, L.  
 V. peach blotch  
 Willison, R.S., 1946  
 V. peach western X disease  
 Rawlins, T.E. and K.G. Parker, 1934
- P. marianna* \*  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941
- P. mume*, Sieb. & Zucc.  
 V. lucerne dwarf  
 Freitag, J.H., 1951

- Prunus persica*, (L.) Batsch (*Amygdalus persica*, L.)  
 V. aster yellows  
 McClintock, J. A., 1931  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cherry freckle fruit disease \*  
 Williams, H. E. and J. A. Milbrath, 1955  
 V. cherry little cherry  
 Milbrath, J. A. and H. E. Williams, 1956  
 Wilks, Jack M. and J. A. Milbrath, 1956  
 V. peach mosaic  
 Bodine, E. W. and L. W. Durrell, 1941  
 V. peach necrotic leaf spot  
 Fridlund, Paul R., 1954  
 V. prune dwarf  
 Thomas, H. E. and E. M. Hildebrand, 1936  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus B \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957  
 V. vaccinium false blossom  
 Kunkel, L. O., 1945  
*P. salicina*, Lindl.  
 V. peach blotch  
 Willison, R. S., 1946  
 V. peach yellow bud mosaic  
 Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957  
 V. prune dwarf  
 Cochran, L. C., 1956  
*P. salicina* x *P. americana*, Marsh.  
 V. peach ring spot  
 Fink, Harry C., 1950  
*P. salicina* x *P. munsoniana*, Wight & Hedr.  
 V. peach ring spot  
 Fink, Harry C., 1955  
*P. serotina*, Ehrh.  
 V. peach X disease  
 Gilmer, R. M., 1951  
 Gilmer, R. M., J. Duain Moore and G. W. Keitt, 1954  
*P. serrulata*, Lindl.  
 V. elm mosaic  
 Callahan, Kemper L. and J. Duain Moore, 1957  
*P. subcordata*, Benth.  
 V. peach western X disease  
 Rawlins, T. E. and H. Earl Thomas, 1941  
*P. tomentosa*, Thunb.  
 V. peach necrotic leaf spot  
 Fridlund, Paul R., 1954  
*P. virginiana*, L. var. *demissa*, (Torr. & Gray) Torr.  
 V. peach mosaic  
 Richards, B. L. and L. C. Cochran, 1956  
  
*PSEUDOTSUGA* Carr. 1867 (Pinaceae)  
*P. taxifolia*, (Poir.) Britt.  
 V. lucerne dwarf  
 Freitag, J. H., 1951  
  
*PSIDIUM* L. 1737 (Myrtaceae)  
*P. guajava*, L.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S. P. Raychaudhuri, 1956  
 V. cucumber mosaic  
 Wellman, F. L., 1935  
  
*PTELEA* L. 1735 (Rutaceae)  
*P. trifoliata*, L.  
 V. citrus tristeza  
 Knorr, L. C., 1956  
  
*PTERIS* L. (Pteridium) (Polypodiaceae)  
*P. aquilina*, L. \*  
 V. beet ring spot \*  
 Harrison, B. D., 1957  
  
*PTERYGOTA* Schott & Endl. 1832 (Sterculiaceae)  
*P. macrocarpa*, K. Schum.  
 V. cacao swollen shoot  
 Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950  
 Tinsley, T. W. and A. L. Wharton, 1958  
  
*PUERARIA* DC. 1825 (Leguminosae)  
*P. hirsuta*, Schneid.  
 V. pea mosaic  
 Murphy, D. M. and W. H. Pierce, 1937  
*P. lobata*, (Willd.) Ohwi  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
  
*PUNICA* ((Tourn.)) L. 1735 (Punicaceae)  
*P. granatum*, L.  
 V. beet curly top  
 Giddings, N. J., 1944  
  
*PYCNANTHUS* Warb. 1895 (Myristicaceae)  
*P. kombo*, Warb. \*  
 V. cacao swollen shoot  
 Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950  
  
*PYRACANTHA* M. Roem. 1847 (Rosaceae)  
*P. angustifolia*, C. K. Schneider  
 V. lucerne dwarf  
 Freitag, J. H., 1951  
  
*QUAMOCLIT* Tourn. ex Moench 1794 (Convolvulaceae)  
*Q. coccinea*, (L.) Moench  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
*Q. pennata*, Bojer  
 V. tomato ring spot  
 Samson, R. W. and E. P. Imlle, 1942  
*Q. sloteri*, X H. D. House apud L. H. Bailey in *Gentes Herbarum*  
 V. sweet potato feathery mottle  
 Webb, Raymon E., 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
  
*RADICULA* Dill. ex Moench 1794 (Cruciferae)  
*R. palustris*, (L.) Moench  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
  
*RANUNCULUS* ((Tourn.)) L. 1735 (Ranunculaceae)  
*R. acris*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
*R. asiaticus*, L.  
 V. primula mosaic  
 Tompkins, C. M. and John T. Middleton, 1941  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*R. ficaria*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
*R. repens*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
  
*RAPHANUS* ((Tourn.)) L. 1735 (Cruciferae)  
*R. raphanistrum*, L.  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
*R. sativus*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957

- Raphanus sativus, L. (cont.)
- V. beet curly top  
Carsner, E., 1919
  - V. beet mosaic  
Pound, Glenn S., 1947
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
  - V. cucumber mosaic  
Burnett, G., 1934  
Johnson, E.M., 1930  
Wellman, F.L., 1935
  - V. euphorbia mosaic  
Costa, A.S. and C.W. Bennett, 1950
  - V. muskmelon mosaic  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. orchid (cymbidium) mosaic  
Jensen, D.D., 1951
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
  - V. pea mottle  
Johnson, Folke, 1942
  - V. pea wilt  
Johnson, Folke, 1942
  - V. potato X  
Johnson, E.M., 1930
  - V. potato Y  
Johnson, E.M., 1930
  - V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. rape savoy  
Ling, Lee and Juhwa Y. Yang, 1940
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco coarse etch  
Johnson, E.M., 1930
  - V. tobacco etch  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - V. tobacco mosaic  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - V. tobacco necrosis  
Fulton, Robert W., 1950
  - V. tobacco ring spot  
Johnson, E.M., 1930  
Wingard, S.A., 1928
  - V. turnip mosaic  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
Gardner, Max W. and James B. Kendrick, 1921  
Tompkins, C.M., 1938, 1939
- R. sativus var. longipinnatus, Bailey \*
- V. turnip mosaic  
Tompkins, C.M., 1939
- R. sativus var. radicola, (Pers.) A. DC. \*
- V. turnip mosaic  
Dale, W. T., 1948
- RESEDA Tourn. ex L. 1735 (Resedaceae)
- R. odorata, L.
- V. anemone brown ring \*  
Hollings, M., 1958
  - V. beet mosaic  
Pound, Glenn S., 1947
  - V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. cucumber mosaic  
Wellman, F.L., 1935
  - V. henbane mosaic  
Hamilton, Marion A., 1932
  - V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. radish mosaic  
Tompkins, C.M., 1939
- R. odorata, L. (cont.)
- V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. tobacco ring spot no. 2  
Brierley, Philip, 1954
  - V. turnip mosaic  
Tompkins, C.M. and H. Rex Thomas, 1938
- RHEUM L. 1735 (Polygonaceae)
- R. rhaponticum, L.
- V. prunus A \*  
Fulton, Robert W., 1957
  - V. prunus B \*  
Fulton, Robert W., 1957
  - V. prunus E \*  
Fulton, Robert W., 1957
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- RHOEO Hance 1853 (Commelinaceae)
- R. discolor, Hance
- V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
  - V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- RICINODENDRON Muell. 1864-65 (Euphorbiaceae)
- R. africanus, Muell. Arg.
- V. cacao swollen shoot  
Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950
- R. heudelotii, Pierre ex Pax
- V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
- RICINUS ((Tourn.)) L. 1735 (Euphorbiaceae)
- R. communis, L.
- V. beet curly top  
Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951
  - V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cucumber mosaic  
Bennett, C.W., 1944  
Wellman, F.L., 1935
  - V. euphorbia mosaic  
Costa, A.S. and C.W. Bennett, 1950
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
  - V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- RIVINA Plum. ex L. 1735 (Phytolaccaceae)
- R. humilis, L., var. aurantica \*
- V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950
  - V. papaw mosaic  
Adsuar, Jose, 1950
- ROBINIA L. 1737 (Leguminosae)
- R. pseudoacacia, L.
- V. lucerne witches' broom  
Menzies, J.D., 1946

- RORIPPA Scop. 1760 (Cruciferae)  
 (RORIPA) Scop. 1760  
 R. nasturtium, Rusby  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 R. palustris, (L.) Bess.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- ROSA Tourn. ex L. 1735 (Rosaceae)  
 R. californica, Cham. & Schlecht.  
 V. peach western X disease  
 Rawlins, T.E. and H. Earl Thomas, 1941  
 R. chinensis, Jacq.  
 V. beet curly top  
 Giddings, N.J., 1944  
 (R. chinensis x R. moschata, Merrm.) x R. foetida,  
 V. rose mosaic  
 White, R.P., 1930  
 R. chinensis var. manetti, Dipp.  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 R. dilecta, Rehd.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 R. hugonis, Hemsl.  
 V. rose streak  
 Brierley, Philip and Floyd F. Smith, 1940  
 R. laevigata, Michx.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 R. odorata, Sweet  
 V. rose mosaic  
 White, R.P., 1930  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 R. polyantha, Hort.  
 V. rose mosaic  
 White, R.P., 1930  
 R. spp.  
 V. aster yellows  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. black raspberry necrosis  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. strawberry crinkle  
 Brierley, Philip and Floyd F. Smith, 1940  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- RUBUS ((Tourn.)) L. 1735 (Rosaceae)  
 R. loganobaccus, Bailey  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 R. occidentalis, L.  
 V. raspberry alpha leaf curl  
 Bennett, C.W., 1930  
 Rankin, W. Howard, 1931
- RUDEBECKIA L. 1735 (Compositae)  
 R. hirta, L.  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 R. serotina, Nutt.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950  
 R. serotina f. pulcherrima, (Farw.) Fern & Schub. \*  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950
- RUPELLIA Plum. ex L. 1735 (Acanthaceae)  
 R. tuberosa, L.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950
- R. tuberosa, L. (cont.)  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- RUMEX L. 1735 (Polygonaceae)  
 R. abyssinicus, Jacq.  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 R. acetosa, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. squash mosaic  
 Freitag, J.H., 1956  
 R. acetosella, L.  
 V. beet mosaic  
 Bennett, C.W., 1949  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- R. aquaticus, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 R. britannica, L.  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 R. conglomeratus, Murr.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 R. crispus, L.  
 V. beet curly top  
 Carsner, E., 1919  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellow net  
 Sylvester, Edward S., 1948  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Stover, W.G. and M.T. Vermillion, 1933  
 R. domesticus, Hartm.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 R. obtusifolius, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Fenne, S.B., 1931  
 R. occidentalis, S. Wats.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cucumber mosaic  
 Nienow, Inez, 1948  
 R. patientia, L.  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 R. persicarioides, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 R. pulcher, L.  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- RUTA ((Tourn.)) L. 1735 (Rutaceae)  
 R. chalepensis, L.  
 V. citrus tristeza  
 Knorr, L.C., 1956



- Ruta graveolens, L.  
V. citrus tristeza  
Knorr, L.C., 1956
- R. spp.  
V. citrus tristeza  
Bennett, C.W. and A.S. Costa, 1949
- SACCHARUM L. 1737 (Gramineae)  
S. officinarum, L.  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. maize leaf fleck  
Stoner, Warren N., 1952  
V. sugarcane mosaic  
Storey, H.H., 1929  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- SAGITTARIA Rupp. ex L. 1735 (Alismaceae)  
S. montevidensis, Cham. & Schlecht.  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- SAINTPAULIA H. Wendl. 1893 (Gesneriaceae)  
S. ionantha, Wendl.  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946  
V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- S. spp.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- SALPIGLOSSIS Ruiz & Pav. 1794 (Solanaceae)  
S. sinuata, Ruiz & Pav.  
V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. prunus A \*  
Fulton, Robert W., 1957  
V. prunus G \*  
Fulton, Robert W., 1957  
V. squash mosaic  
Freitag, J.H., 1956  
V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
- SALVIA ((Tourn.)) L. 1735 (Labiatae)  
S. azurea, Lam.  
V. tobacco etch  
Holmes, Francis O., 1946
- S. farinacea, Benth.  
V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
V. radish mosaic  
Tompkins, C.M., 1939  
V. tobacco etch  
Holmes, Francis O., 1946  
V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- S. patens, Cav.  
V. tobacco etch  
Holmes, Francis O., 1946
- S. splendens, Ker-Gawl.  
V. anemone mosaic \*  
Hollings, M., 1957  
V. beet mosaic  
Pound, Glenn S., 1947  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- S. splendens, Ker-Gawl. (cont.)  
V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- SAMOLUS ((Tourn.)) L. 1735 (Primulaceae)  
S. floribundus, H. B. & K.  
V. beet curly top  
Costa, A.S., 1952  
S. parviflorus, Raf.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- SANGUISORBA Rupp. ex L. 1735 (Rosaceae)  
S. minor, Scop.  
V. beet yellows  
Roland, G. and J. Tahon, 1961
- SANICULA ((Tourn.)) L. 1735 (Umbelliferae)  
S. canadensis, L.  
V. tobacco mosaic  
Holmes, Francis O., 1938
- SANSEVIERIA Thunb. 1794 (Liliaceae)  
S. thyrsiflora, Thunb.  
V. cucumber mosaic  
Wellman, F.L., 1935  
V. wheat streak mosaic  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- S. zeylanica, Willd.  
V. cucumber mosaic  
Brierley, Philip and Floyd F. Smith, 1944  
V. lily symptomless  
Brierley, Philip and Floyd F. Smith, 1944  
V. tulip breaking  
Brierley, Philip and Floyd F. Smith, 1944
- SANVITALIA Gault. in Lam. 1792 (Compositae)  
S. procumbens, Lam.  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- SAPONARIA L. 1735 (Caryophyllaceae)  
S. vaccaria, L.  
V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
- SCABIOSA ((Tourn.)) L. 1735 (Dipsaceae)  
S. atropurpurea, L.  
V. beet mosaic  
Pound, Glenn S., 1947  
V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937  
V. radish mosaic  
Tompkins, C.M., 1939  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946  
V. tomato aspermy  
Hollings, M., 1955  
V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942  
V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- S. caucasica, Bieb.  
V. tobacco etch  
Holmes, Francis O., 1946  
V. tobacco mosaic  
Holmes, Francis O., 1946

- SCAPHOPETALUM Mast. 1869 (Sterculiaceae)  
*S. amoenum*, A. Chev.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- SCHIZANTHUS Ruiz & Pav. 1794 (Solanaceae)  
*S. pinnatus*, Ruiz & Pav.  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
*S. retusus*, Hook  
 V. potato Y  
 Smith, Kenneth M. and R.W.G. Dennis, 1940
- SCILLA L. 1735 (Liliaceae)  
*S. hispanica*, Mill. (*S. campanulata*, Ait.)  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*S. peruviana*, L.  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944
- SCYTOPETALUM Pierre 1897 (Scytopetalaceae)  
*S. tieghemii*, Hutchinson & Dalziel  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- SECALE ((Tourn.) L. 1735 (Gramineae)  
*S. cereale*, L.  
 V. aster yellows  
 Black, L.M., 1941  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1955  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. wheat spot mosaic \*  
 Slykhuis, John T., 1956  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952  
*S. montanum*, Guss.  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957
- SECHIUM P. Br. 1756 (Cucurbitaceae)  
*S. edule*, (Jacq.) Sw.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- SENECIO ((Tourn.) L. 1735 (Compositae)  
*S. cruentus*, (Mass.) DC.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chrysanthemum ring spot  
 Brierley, Philip and Floyd F. Smith, 1955  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 Wellman, F.L., 1935  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- S. douglasii*, DC.  
 V. beet curly top  
 Severin, Henry H.P., 1939  
*S. elegans*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
*S. macrophyllus*, Bieb.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. mikioides*, Otto  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*S. vulgaris*, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958
- SESAMUM L. 1737 (Pedaliaceae)  
*S. indicum*, L.  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950
- SESBANIA Scop. 1777 (Leguminosae)  
*S. exaltata*, (Raf.) Cory  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*S. macrocarpa*, Muhl. ex Raf.  
 V. tobacco ring spot  
 Cooper, W.E., 1949  
*S. sesban*, Merr.  
 V. prunus G \*  
 Fulton, Robert W., 1957  
*S. speciosa*, Taub. ex Engl.  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956
- SETARIA Beauv. 1807 (Gramineae)  
 (CHAETOCHELOA) Scribn. 1897  
*S. italica*, (L.) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
*S. lutescens*, (Weigel) F.T. Hubb (erroneously as *S. glauca*, (L.) Beauv., a synonym of *Pennisetum glaucum*, (L.) R. Br.)  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley stripe mosaic  
 Slykhuis, J.T., 1952  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. wheat streak mosaic  
 Slykhuis, J.T., 1952, 1955  
*S. verticillata*, (L.) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
*S. virdis*, (L.) Beauv.  
 V. agropyron mosaic  
 Slykhuis, J.T., 1952  
 V. barley yellow dwarf  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923
- SEVERINIA Tenore 1840 (Rutaceae)  
*S. buxifolia*, Ten.  
 V. citrus tristeza  
 Knorr, L.C., 1956  
*S. disticha*, (Blanco) Swingle  
 V. citrus tristeza  
 Knorr, L.C., 1956
- SICANA Naud. 1862 (Cucurbitaceae)  
*S. odorifera*, Naud.  
 V. papaw mosaic  
 Adsuar, Jose, 1950

- SIDA L. 1735 (Malvaceae)  
*S. carpinifolia*, L. f.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
*S. fallax*, Walp.  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950  
*S. hederacea*, (Dougl.) Torr.  
 V. beet curly top  
 Severin, Henry H.P., 1939  
*S. rhombifolia*, L.  
 V. abutilon infectious variegation  
 Silberschmidt, Karl M., 1948  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
*S. spp.*  
 V. cowpea mosaic  
 Anderson, C.W., 1955
- SILENE L. 1735 (Caryophyllaceae)  
*S. compacta*, Fisch.  
 V. bean pod mottle  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
 V. hydrangea ring spot  
 Brierley, Philip and Paul Lorentz, 1957  
 V. peony leaf curl \*  
 Brierley, Philip and Paul Lorentz, 1957  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*S. dichotoma*, Ehrh.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. nutans*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. pendula*, L.  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. tobacco etch  
 Holmes, Francis O., 1946  
*S. verecunda*, S. Wats.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. vulgaris*, Garcke  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- SILYBUM Vaill. ex Adans. 1763 (Compositae)  
*S. marianum*, Gaertn.  
 V. red currant ring spot  
 Klesser, P.J., 1951
- SINNINGIA Nees 1825 (Gesneriaceae)  
*S. speciosa*, Benth. & Hook.  
 V. tobacco etch  
 Holmes, Francis O., 1946
- SISYMBRIUM ((Tourn.) L. 1735 (Cruciferae)  
*S. alliaria*, Scop.  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
*S. altissimum*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
*S. irio*, (L.) Britt.  
 V. beet mosaic  
 Bennett, C.W., 1949  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
*S. officinale*, (L.) Scop.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- SMILACINA Desf. 1807 (Liliaceae)  
*S. racemosa*, (L.) Desf.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*S. spp.*  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- SMILAX ((Tourn.) L. 1735 (Liliaceae)  
*S. spp.*  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- SOLANUM ((Tourn.) L. 1735 (Solanaceae)  
*S. andigenum*, Juz. & Buk. \*  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
*S. antipoviczii*, Buk.  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
*S. aviculare*, Forst.  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*S. capsicastrum*, Link  
 V. red currant ring spot  
 Klesser, P.J., 1951  
*S. capsicum*, L. \*  
 V. red currant ring spot  
 Klesser, P.J., 1951  
*S. caribaeum*, Dun.  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
*S. carolinense*, L.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato Y  
 Johnson, E.M., 1930  
 Koch, K.L., 1933  
 V. tobacco coarse etch  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Henderson, R.G. and S.A. Wingard, 1931  
 Johnson, E.M., 1930  
*S. chacoense*, Bitt.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
*S. commersonii*, Dun.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 (S. demissum, Lindl. x S. gonicalyx, Lanza) x (S. stoloniferum, Schlecht. & Bouche)  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 (S. demissum x S. rybinii, Juz. & Buk.) x (S. stoloniferum, Schlecht. & Bouche)  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 (S. demissum x S. soukupii, G. Hawkes) x (S. stoloniferum, Schlecht. & Bouche)  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958

- Solanum dulcamara*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cucumber mosaic  
 Govier, D.A., 1957  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. potato X  
 Dykstra, T.P., 1933  
 V. potato Y  
 Dykstra, T.P., 1933  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco ring spot  
 Fenne, S.B., 1931  
 Wingard, S.A., 1928  
 V. tomato aspermy  
 Hollings, M., 1955  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. elaeagnifolium*, Cav.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- S. gilo*, Raddi  
 V. dodder latent mosaic  
 Bennett, C.W., 1944
- S. integrifolium*, Poir.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. turnip mosaic  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. longipedicellatum*, Bitter  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- S. lycopersicum*, L.  
 V. potato spindle tuber  
 Goss, R.W., 1931
- S. melongena*, L.  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. beet curly top  
 Costa, A.S., 1952  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 V. chilli (pepper) mosaic  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 Yu, T.F., 1946  
 V. cucumber mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Burnett, G., 1934  
 Johnson, J., 1926  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950
- S. melongena*, L. (cont.)  
 V. lucerne mosaic  
 Zaumeyer, W.J., 1938  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. papaw mosaic  
 Adsuar, Jose, 1950  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. petunia mosaic  
 Johnson, J., 1926  
 V. potato leaf roll  
 Webb, R.E., R.H. Larson and J.C. Walker, 1952  
 V. potato paracrinkle  
 Bagnall, R.H. and R.H. Larson, 1957  
 Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
 V. potato Y  
 Koch, K.L., 1933  
 V. tobacco etch  
 Bawden, F.C. and B. Kassanis, 1941  
 V. tobacco leaf curl  
 Bird, Julio, 1957  
 V. tobacco mosaic  
 Johnson, J., 1926  
 V. tobacco streak  
 Johnson, J., 1936  
 V. tobacco stunt \*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956  
 V. tomato twisted leaf  
 Ferguson, I.A.C., 1951
- S. melongena* var. *esculentum*, Nees  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. potato X  
 Smith, J. Henderson, 1928  
 V. tobacco etch  
 Johnson, E.M., 1930  
 V. tobacco ring spot  
 Johnson, E.M., 1930
- S. nigrum*, L.  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 Carsner, E., 1919  
 Costa, A.S., 1952  
 V. beet mosaic  
 Severin, Henry H.P. and Roger M. Drake, 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cauliflower mosaic  
 Alvarez-Garcia, L.A., 1951  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. cucumber green mottle mosaic  
 Ainsworth, G.C., 1935  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. hibiscus yellow vein mosaic  
 Capoor, S.P. and P.M. Varma, 1950  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. pokeweed mosaic \*  
 Allard, H.A., 1918  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946  
 V. potato Y  
 Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954

- Solanum nigrum*, L. (cont.)  
 V. tobacco ring spot  
 Henderson, R. G. and S.A. Wingard, 1931  
 Smith, Kenneth M., 1929  
 V. tomato aspermy  
 Blencowe, J. W. and John Waldwell, 1949
- S. nodiflorum*, Jacq.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. potato A  
 Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946  
 V. potato Y  
 Roque, Arturo and Jose Adsuar, 1941  
 Smith, Kenneth M. and R.W.G. Dennis, 1940  
 V. tobacco etch  
 Bawden, F.C. and B. Kassanis, 1941  
 V. tomato aspermy  
 Blencowe, J. W. and John Caldwell, 1949
- S. polyadenium*, Greenm.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- S. pseudocapsicum*, L.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. cucumber mosaic  
 Burnett, G., 1934  
 Wellman, F.L., 1935  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
 V. turnip mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. rostratum*, Dun.  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- S. saltense*, Hawkes  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- S. sanitwongsei*, Craib  
 V. tobacco etch  
 Holmes, Francis O., 1946
- S. schickii*, Juz. & Buk.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- S. torvum*, Sw.  
 V. papaw mosaic  
 Adsuar, Jose, 1950
- S. tuberosum*, L.  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bayberry yellows  
 Raychaudhuri, S.P., 1953  
 V. beet curly top  
 Bennett, C.W. and A.S. Costa, 1949  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. celery mosaic  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. cucumber mosaic  
 Bhargava, K.S., 1951  
 Burnett, G., 1934
- S. tuberosum*, L. (cont.)  
 V. cucumber mosaic  
 Dykstra, T.P., 1939  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Wellman, F.L., 1935  
 V. cowpea mosaic  
 McLean, D.M., 1941  
 Yu, T.F., 1946  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. henbane mosaic  
 Hamilton, Marion A., 1932  
 V. lovage mosaic  
 Smith, Kenneth M. and Roy Markham, 1944  
 V. lucerne mosaic  
 Thomas, H. Rex, 1951  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. nicotiana glutinosa mosaic \*  
 Allard, H.A., 1916  
 V. nicotiana glutinosa root necrosis \*  
 Cetas, Robert C. and A. Frank Ross, 1952  
 V. papaw ring spot  
 Jensen, D.D., 1949  
 V. pea enation mosaic  
 Osborn, H.T., 1938  
 V. pea streak  
 Zaumeyer, W.J., 1938  
 V. physalis floridana yellow net  
 Webb, R.E., 1955  
 V. potato X  
 Hamilton, Marion A., 1932  
 Johnson, James, 1927  
 V. potato Y  
 Hamilton, Marion A., 1932  
 Roque, Arturo and Jose Adsuar, 1941  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. red clover vein mosaic  
 Hagedorn, D.J. and J.C. Walker, 1949  
 Osborn, H.T., 1937  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco mosaic  
 Allard, H.A., 1916  
 Quanjier, H.M., 1920  
 Schultz, E.S. and Donald Folsom, 1923  
 V. tobacco ring spot  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Johnson, J., 1936  
 V. tobacco yellow dwarf  
 Hill, A.V. and M. Mandryk, 1954  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. tomato yellow net  
 Sylvester, Edward S., 1954  
 V. turnip mosaic  
 Schultz, E.S., 1921  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- S. verrucosum*, Schlecht.  
 V. potato A  
 MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- SOLIDAGO ((Vaill.)) L. 1735 (Compositae)  
*S. graminifolia*, L.  
 V. tobacco mosaic  
 Holmes, Francis O., 1938
- S. rugosa*, Mill.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946

- Solidago* spp.  
*V. prunus* A \*  
 Fulton, Robert W., 1957  
*V. prunus* E \*  
 Fulton, Robert W., 1957  
*V. prunus* G \*  
 Fulton, Robert W., 1957
- S. virgaurea*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961
- SONCHUS ((Tourn.)) L. 1735 (Compositae)  
*S. arvensis*, L.  
*V. beet yellow net*  
 Sylvester, Edward S., 1948  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. lettuce mosaic*  
 Ainsworth, G.C. and L. Ogilvie, 1939
- S. asper*, (L.) Hill  
*V. beet mosaic*  
 Bennett, C.W., 1949  
 Severin, Henry H.P. and Roger M. Drake, 1947  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961
- S. oleraceus*, L.  
*V. beet mosaic*  
 Severin, Henry H.P. and Roger M. Drake, 1947  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. cucumber mosaic*  
 Wellman, F.L., 1935  
*V. dandelion yellow mosaic*  
 Kassanis, B., 1947  
*V. lettuce mosaic*  
 Ainsworth, G.C. and L. Ogilvie, 1939  
*V. stone fruit \**  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- S. spp.*  
*V. hibiscus yellow vein mosaic*  
 Capoor, S.P. and P.M. Varma, 1950
- SORGHASTRUM Nash 1901 (Gramineae)  
*S. nutans*, (L.) Nash  
*V. sugarcane mosaic*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*V. wheat streak mosaic*  
 Will, W.H., Jr. and Patrick C. Agusiobo, 1955
- SORGHUM L. 1735 (Gramineae)  
*S. alnum*, L. Parodi  
*V. wheat streak mosaic*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- S. halepense*, (L.) Pers.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. wheat streak mosaic*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- S. versicolor*, Anderss.  
*V. wheat streak mosaic*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- S. vulgare*, Pers.  
*V. agropyron mosaic*  
 Slykhuis, J.T., 1952  
*V. barley stripe mosaic*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 Slykhuis, J.T., 1952  
*V. barley yellow dwarf*  
 Oswald, John W. and Byron R. Houston, 1953  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. cucumber mosaic*  
 McWhorter, F.P. and H.H. Millsap, 1954  
*V. maize leaf fleck*  
 Stoner, Warren N., 1952  
*V. panicum mosaic \**  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
*V. wheat streak mosaic*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, J.T., 1952
- S. vulgare* var. *saccharatum*, (L.) Boerl.  
*V. wheat streak mosaic*  
 Finley, A.M., 1957
- S. vulgare* var. *sudanense*, (Piper) Hitchc.  
*V. maize leaf fleck*  
 Stoner, Warren N., 1952  
*V. wheat streak mosaic*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- SPARAXIS Ker-Gawl. 1804 (Iridaceae)  
*S. tricolor*, Ker-Gawl.  
*V. nothoscordum mosaic*  
 McKinney, H.H., 1950  
*V. tomato aspermy*  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- SPINACIA ((Tourn.)) L. 1735 (Chenopodiaceae)  
*S. oleracea*, L.  
*V. anemone brown ring \**  
 Hollings, M., 1958  
*V. anemone mosaic \**  
 Hollings, M., 1957  
*V. aster yellows*  
 Severin, H.H.P., 1928  
*V. bean yellow mosaic*  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
*V. beet curly top*  
 Costa, A.S., 1952  
*V. beet rosette \**  
 Bennett, C.W. and James E. Duffus, 1957  
*V. beet yellow net*  
 McLean, D.M., 1952  
 Sylvester, Edward S., 1948  
*V. cauliflower mosaic*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. chrysanthemum B (mild mosaic) \**  
 Hollings, M., 1957  
*V. chrysanthemum latent \**  
 Hollings, M., 1957  
*V. citrus tristeza*  
 Bennett, C.W. and A.S. Costa, 1949  
*V. cowpea mosaic*  
 Capoor, S.P. and P.M. Varma, 1956  
*V. cucumber mosaic*  
 Burnett, G., 1934  
*V. datura distortion mosaic*  
 Capoor, S.P. and P.M. Varma, 1952  
*V. filaree red leaf*  
 Frazier, Norman W., 1951  
*V. lucerne mosaic*  
 Kreitlow, K.W. and W.C. Price, 1949  
 Thomas, H.R., 1953  
*V. malva yellow vein mosaic \**  
 Costa, A.S. and James E. Duffus, 1957  
*V. muskmelon mosaic*  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
*V. pea wilt*  
 Johnson, Folke, 1942  
*V. primula mosaic*  
 Tompkins, C.M. and John T. Middleton, 1941  
*V. squash mosaic*  
 Freitag, J.H., 1956  
*V. stone fruit \**  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco ring spot*  
 Smith, Kenneth M., 1929  
 Wingard, S.A., 1928  
*V. tobacco streak*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*V. tomato spotted wilt*  
 Smith, Kenneth M., 1931  
*V. turnip mosaic*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- S. oleracea* var. *inermis*, Peterm. \*  
*V. celery mosaic*  
 Freitag, Julius H. and Henry H.P. Severin, 1945

- SPREKELIA Heist. 1748 (Amaryllidaceae)  
*S. formosissima*, Herb.  
 V. narcissus mosaic  
 Haasis, Frank A., 1939
- STACHYS ((Tourn.)) L. 1735 (Labiatae)  
*S. arvensis*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- STANLEYA Nutt. 1818 (Cruciferae)  
*S. pinnata*, (Pursh) Britt.  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937
- STELLARIA L. 1753 (Caryophyllaceae)  
*S. media*, (L.) Cyr.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. beet curly top  
 Costa, A.S., 1952  
 V. beet yellow net  
 McLean, D.M., 1952  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum latent \*  
 Hollings, M., 1957  
 V. citrus tristeza  
 Bennett, C.W. and A.S. Costa, 1949  
 V. dodder latent mosaic  
 Bennett, C.W., 1944  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- STENOTAPHRUM Trin. 1820 (Gramineae)  
*S. secundatum*, (Walt.) Kuntze  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- STERCULIA L. 1747 (Sterculiaceae)  
*S. foetida*, L.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. oblonga*, Mast.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. rhinopetala*, K. Schum.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958  
*S. tragacantha*, Lindl.  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
 Tinsley, T.W. and A.L. Wharton, 1958
- STIPA L. 1753 (Gramineae)  
*S. cernua*, Stebbins & Love  
 V. barley yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953
- STOKESIA L'Herit. 1788 (Compositae)  
*S. laevis*, (Hill) Greene  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953
- SWAINSONA Salisb. 1805 (Leguminosae)  
*S. salsula*, Taub.  
 V. lucerne witches' broom  
 Klostermeyer, E.C. and J.D. Menzies, 1951
- SWINGLEA Merrill 1927 (Rutaceae)  
*S. glutinosa*, Merrill  
 V. citrus tristeza  
 Knorr, L.C., 1956
- SYMPLOCARPUS Salisb. ex Nutt. 1818 (Araceae)  
*S. foetidus*, (L.) Nutt.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- TAGETES L. 1737 (Compositae)  
*T. signata*, Bartl.  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942
- T. spp.*  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950
- T. erecta*, L.  
 V. chilli (pepper) mosaic  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953  
 V. datura distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- T. patula*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cauliflower mosaic  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- TANACETUM Tourn. ex L. 1735 (Compositae)  
*T. vulgare*, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- TARAXACUM L. 1735 (Compositae)  
*T. megalorrhizon*, Hand.-Mazz.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- T. officinale*, Weber  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. lettuce mosaic  
 Ainsworth, G.C. and L. Ogilvie, 1939

- Taraxacum officinale*, Weber  
 V. pea mottle  
 Johnson, Folke, 1942  
 V. pea wilt  
 Johnson, Folke, 1942  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1938, 1946  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- TARRIETIA** Blume 1825 (Sterculiaceae)  
*T. utilis*, (Sprague) Sprague \*  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- TETRAGONIA** L. 1735 (Aizoaceae)  
*T. expansa*, Thunb.  
 V. lucerne dwarf  
 Freitag, J.H., 1951  
 V. pelargonium ring spot \*  
 Hollings, M., 1957  
 V. spinach yellow dwarf  
 Severin, Henry H.P. and Donald H. Little, 1947  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tomato spotted wilt  
 Sakimura, K., 1940  
 Smith, Kenneth M., 1931  
 V. turnip yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- THELESPERMA** Less. 1831 (Compositae)  
*T. hybridum*, Voss  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- THEOBROMA** L. 1737 (Sterculiaceae)  
*T. angustifolia*, ((Moc. & Sesse)) ex DC.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*T. balaoense* \*  
 V. cacao swollen shoot  
 Posnette, A.F. and J. McA. Todd, 1951  
*T. bicolor*, Humb. & Bonpl.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*T. grandiflorum*, K. Schum.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*T. (Herrania) mariae*, K. Schum.  
 V. cacao swollen shoot  
 Posnette, A.F. and J. McA. Todd, 1951  
*T. obovata*, Klotzsch, ex Bern.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*T. speciosa*, Willd. ex Spreng.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- THESPESIA** Soland. ex Correa 1807 (Malvaceae)  
*T. lampas* \*  
 V. cacao swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
*T. populnea* \*  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
 V. hibiscus yellows \*  
 Hendrix, J. Walter, 1950
- THLASPI** ((Tourn.)) L. 1737 (Cruciferae)  
*T. arvense*, L.  
 V. beet mosaic  
 Pound, Glenn S., 1947
- T. arvense*, L. (cont.)  
 V. cauliflower mosaic  
 Caldwell, John and Ian W. Prentice, 1942  
 V. stone fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- THUNBERGIA** Retz. 1776 (Acanthaceae)  
*T. alata*, Bojer  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- THYSANOCARPUS** Hook 1829 (Cruciferae)  
*T. radians*, Benth.  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937
- TIGRIDIA** Juss. 1789 (Iridaceae)  
*T. pavonia*, Ker-Gawl.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*T. spp.*  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- TILIA** ((Tourn.)) L. 1735 (Tiliaceae)  
*T. platyphyllos*, Scop.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- TILLANDSIA** L. 1735 (Bromeliaceae)  
*T. fasciculata*, Swartz  
 V. cucumber mosaic  
 Wellman, F.L., 1935
- TITHONIA** Desf. ex Juss. 1789 (Compositae)  
*T. rotundifolia*, (Mill.) Blake  
 V. dahlia mosaic  
 Brierley, Philip and Floyd F. Smith, 1950  
 V. tobacco mosaic  
 Cook, M.T., 1936  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*T. speciosa*, Hook.  
 V. prunus A \*  
 Fulton, Robert W., 1957  
 V. prunus E \*  
 Fulton, Robert W., 1957  
 V. prunus G \*  
 Fulton, Robert W., 1957
- TRACHYMENE** Rudge 1811 (Umbelliferae)  
*T. caerulea*, R. Graham  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946
- TRADESCANTIA** Rupp. ex L. 1735 (Commelinaceae)  
*T. fluminensis*, Vell.  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- TRAGOPOGON** ((Tourn.)) L. 1735 (Compositae)  
*T. porrifolius*, L.  
 V. chrysanthemum stunt  
 Brierley, Philip, 1953



- Tragopogon porrifolius, L. (cont.)  
   V. cucumber mosaic  
     Wellman, F.L., 1935  
   V. tobacco ring spot  
     Wingard, S.A., 1928
- TREMA Lour. 1790 (Ulmaceae)  
 T. guineensis, Priemer  
   V. cacao swollen shoot  
     Tinsley, T.W. and A.L. Wharton, 1958
- TRIBULUS Tourn. ex L. 1735 (Zygophyllaceae)  
 T. terrestris, L.  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961
- TRICHOLAENA Schrad. 1824 (Gramineae)  
 T. repens, (Willd.) Hitchc. (T. rosea, Nees)  
   V. cucumber mosaic  
     Wellman, F.L., 1935
- TRICYRTIS Wall. 1826 (Liliaceae)  
 T. hirta, Hook.  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944
- TRIFOLIUM ((Tourn.)) L. 1735 (Leguminosae)  
 T. alexandrinum, L.  
   V. chilli (pepper) mosaic  
     Jha, Ashrafi and S.P. Raychaudhuri, 1956  
   V. tobacco mosaic  
     Das, C.R. and S.P. Raychaudhuri, 1953
- T. fragiferum, L.  
   V. lucerne witches' broom  
     Menzies, J.D., 1946
- T. hybridum, L.  
   V. bean Montana \*  
     Afanasiev, M.M. and H.E. Morris, 1946  
   V. bean yellow mosaic  
     Afanasiev, M.M. and H.E. Morris, 1952  
   V. cucumber mosaic  
     Harter, L.L., 1938  
   V. lucerne witches' broom  
     Menzies, J.D., 1946  
   V. pea enation mosaic  
     Hagedorn, D.J. and J.C. Walker, 1954  
     McEwen, F.L. and W.T. Schroeder, 1956  
     Osborn, H.T., 1938  
     Simons, John N., 1954  
     Stubbs, M.W., 1937  
   V. pea mosaic  
     Hagedorn, D.J. and J.C. Walker, 1954  
     Stubbs, M.W., 1937  
   V. potato A  
     MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
   V. tobacco ring spot  
     Fenne, S.B., 1931  
     Stubbs, M.W., 1937
- T. incarnatum, L.  
   V. bayberry yellows  
     Raychaudhuri, S.P., 1953  
   V. bean pod mottle  
     Zaumeier, W.J. and H. Rex Thomas, 1948  
   V. bean southern mosaic  
     Zaumeier, W.J. and L.L. Harter, 1943  
   V. bean yellow mosaic  
     Zaumeier, W.J., 1952  
     Zaumeier, W.J. and H.H. Fisher, 1953  
   V. bean yellow stipple  
     Zaumeier, W.J. and H. Rex Thomas, 1950  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. cucumber mosaic  
     Bridgmon, G.H. and J.C. Walker, 1952  
   V. lucerne witches' broom  
     Menzies, J.D., 1946  
   V. orchid (cymbidium) mosaic  
     Jensen, D.D., 1951
- T. incarnatum, L. (cont.)  
   V. orchid (odontoglossum) ring spot  
     Jensen, D.D. and A. Herbert Gold, 1951  
   V. potato A  
     MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
   V. soybean mosaic  
     Conover, Robert A., 1948  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. stone fruit \*  
     Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Costa, A.S., 1944  
     Holmes, Francis O., 1946  
   V. tobacco ring spot  
     Bridgmon, G.H. and J.C. Walker, 1952
- T. medium, L.  
   V. pea mosaic  
     Murphy, D.M. and W.H. Pierce, 1937  
   V. tobacco ring spot  
     Fenne, S.B., 1931
- T. pratense, L.  
   V. alsike clover mosaic  
     Zaumeier, W.J., 1940  
   V. bean common mosaic  
     Ainsworth, G.C., 1940  
     Snyder, W.C., 1942  
     Zaumeier, W.J. and B.L. Wade, 1935  
   V. bean Montana \*  
     Afanasiev, M.M. and H.E. Morris, 1946  
   V. bean southern mosaic  
     Zaumeier, W.J. and L.L. Harter, 1943  
   V. bean yellow mosaic  
     Afanasiev, M.M. and H.E. Morris, 1952  
     Ainsworth, G.C., 1940  
     Baggett, James R., 1957  
     Grogan, Raymond G. and J.C. Walker, 1948  
     Thomas, H. Rex and W.J. Zaumeier, 1953  
     Zaumeier, W.J., 1940, 1952  
     Zaumeier, W.J. and H.H. Fisher, 1953  
   V. bean yellow stipple  
     Zaumeier, W.J. and H. Rex Thomas, 1950  
   V. beet curly top  
     Giddings, N.J., 1944  
   V. beet mosaic  
     Bennett, C.W., 1949  
   V. beet yellows  
     Roland, G. and J. Tahon, 1961  
   V. cowpea mosaic  
     Yu, T.F., 1946  
   V. cucumber mosaic  
     Bridgmon, G.H. and J.C. Walker, 1952  
     Costa, A.S., 1944  
     Doolittle, S.P. and W.J. Zaumeier, 1953  
   V. filaree red leaf  
     Frazier, Norman W., 1951  
   V. gladiolus \*  
     Snow, Gordon F., 1955  
   V. hibiscus yellow vein mosaic  
     Capoor, S.P. and P.M. Varma, 1950  
   V. kaimi clover disease \*  
     Murakishi, Harry H., 1952  
   V. lettuce mosaic  
     Ainsworth, G.C., 1940  
   V. lucerne mosaic  
     Zaumeier, W.J., 1953  
   V. muskmelon mosaic  
     Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
   V. onion yellow dwarf  
     Henderson, W.J., 1935  
   V. pea enation mosaic  
     Ainsworth, G.C., 1940  
     Chaudhuri, R.P., 1950  
     Hagedorn, D.J. and J.C. Walker, 1954  
     Johnson, Folke and Leon K. Jones, 1937  
     McEwen, F.L. and W.T. Schroeder, 1956  
     Osborn, H.T., 1938  
     Pierce, W.H., 1935  
     Simons, John N., 1954  
     Stubbs, M.W., 1936, 1937

- Trifolium pratense, L. (cont.)  
   V. pea mosaic  
     Ainsworth, G.C., 1940  
     Chaudhuri, R.P., 1950  
     Hagedorn, D.J. and J.C. Walker, 1954  
     Stubbs, M.W., 1936, 1937  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. potato A  
     MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
   V. soybean mosaic  
     Kendrick, James B. and Max W. Gardner, 1924  
     Pierce, W.H., 1935  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1946  
   V. tobacco ring spot  
     Bridgmon, G.H. and J.C. Walker, 1952  
     Cheo, Pen Ching and W.J. Zaumeyer, 1952  
     Fenne, S.B., 1931  
     Stubbs, M.W., 1937  
 T. procumbens, L.  
   V. lucerne mosaic  
     Kreitlow, K.W. and W.C. Price, 1949  
   V. orchid (cymbidium) mosaic  
     Jensen, D.D., 1951  
 T. repens, L.  
   V. alsike clover mosaic  
     Zaumeyer, W.J., 1940  
   V. anemone brown ring \*  
     Hollings, M., 1958  
   V. anemone mosaic \*  
     Hollings, M., 1957  
   V. bean common mosaic  
     Ainsworth, G.C., 1940  
     Snow, Gordon F., 1955  
     Snyder, W.C., 1942  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. bean Montana \*  
     Afanasiev, M.M. and H.E. Morris, 1946  
   V. bean southern mosaic  
     Zaumeyer, W.J. and L.L. Harter, 1943  
   V. bean yellow mosaic  
     Afanasiev, M.M. and H.E. Morris, 1952  
     Baggett, James R., 1957  
     Elliott, J.A., 1921  
     Grogan, Raymond G. and J.C. Walker, 1948  
     Hagedorn, D.J. and J.C. Walker, 1950, 1954  
     Pierce, W.H., 1935  
     Zaumeyer, W.J., 1940, 1952  
     Zaumeyer, W.J. and H.H. Fisher, 1953  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. bean yellow stipple  
     Zaumeyer, W.J. and H. Rex Thomas, 1950  
   V. beet curly top  
     Giddings, N.J., 1944  
   V. beet mosaic  
     Bennett, C.W., 1949  
   V. chrysanthemum B (mild mosaic) \*  
     Hollings, M., 1957  
   V. cowpea mosaic  
     Yu, T.F., 1946  
   V. cucumber mosaic  
     Doolittle, S.P. and W.J. Zaumeyer, 1953  
     Wellman, F.L., 1935  
     Whipple, O.C. and J.C. Walker, 1941  
   V. filaree red leaf  
     Frazier, Norman W., 1951  
   V. kaimi clover disease \*  
     Murakishi, Harry H., 1952  
   V. lettuce mosaic  
     Ainsworth, G.C., 1940  
   V. lucerne mosaic  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. pea enation mosaic  
     Ainsworth, G.C., 1940  
     Chaudhuri, R.P., 1950  
     Hagedorn, D.J. and J.C. Walker, 1954  
     Johnson, Folke and Leon K. Jones, 1937  
     Osborn, H.T., 1938  
     Pierce, W.H., 1935  
   V. repens, L. (cont.)  
     V. pea enation mosaic  
       Simons, John N., 1954  
       Stubbs, M.W., 1937  
   V. pea mosaic  
     Ainsworth, G.C., 1940  
     Chaudhuri, R.P., 1950  
     Hagedorn, D.J. and J.C. Walker, 1954  
     Murphy, D.M. and W.H. Pierce, 1937  
     Osborn, H.T., 1937  
     Pierce, W.H., 1935  
     Stubbs, M.W., 1937  
   V. pea yellow mosaic \*  
     Ainsworth, G.C., 1940  
   V. potato A  
     MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
   V. prunus E \*  
     Fulton, Robert W., 1957  
   V. prunus G \*  
     Fulton, Robert W., 1957  
   V. red clover mosaic \*  
     Elliott, J.A., 1921  
     Zaumeyer, W.J. and B.L. Wade, 1935  
   V. red clover vein mosaic  
     Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
     Hagedorn, D.J. and J.C. Walker, 1949  
   V. soybean mosaic  
     Pierce, W.H., 1935  
   V. squash mosaic  
     Freitag, J.H., 1956  
   V. tobacco etch  
     Holmes, Francis O., 1946  
   V. tobacco mosaic  
     Holmes, Francis O., 1938, 1946  
   V. tobacco ring spot  
     Fenne, S.B., 1931  
     Grogan, R.G. and W.C. Schnathorst, 1955  
     Stubbs, M.W., 1937  
   V. tobacco streak  
     Thomas, H. Rex and W.J. Zaumeyer, 1950  
   V. Wisconsin pea streak  
     Hagedorn, D.J. and J.C. Walker, 1949, 1954  
 T. repens var. latum, McCarthy \*  
   V. squash mosaic  
     Freitag, J.H., 1956  
 T. spp.  
   V. lucerne witches' broom  
     Menzies, J.D., 1944  
 T. subterraneum, L.  
   V. bean yellow mosaic  
     Baggett, James R., 1957  
   V. (cucumber) O.S.C. isolate 606 \*  
     Porter, Clark A. and Frank P. McWhorter, 1951  
   V. pea enation mosaic  
     Chaudhuri, R.P., 1950  
 TRILLIUM L. 1753 (Liliaceae)  
 T. spp.  
   V. cucumber mosaic  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. lily symptomless  
     Brierley, Philip and Floyd F. Smith, 1944  
   V. tulip breaking  
     Brierley, Philip and Floyd F. Smith, 1944  
 TRIPHASIA Lour. 1790 (Rutaceae)  
 T. trifolia, P. Wilson  
   V. citrus tristeza  
     Knorr, L.C., 1956  
 TRIPLOCHITON K. Schum. \* (Sterculiaceae)  
 T. scleroxylon, K. Schum. \*  
   V. cacao swollen shoot  
     Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
     Tinsley, T.W. and A.L. Wharton, 1958  
 TRIPSACUM L. 1759 (Gramineae)  
 T. dactyloides, L.  
   V. sugarcane mosaic  
     Brandes, E.W. and Peter J. Klaphaak, 1923

- TRITICUM L. 1735 (Gramineae)  
 T. aestivum, L.  
 V. cucumber mosaic  
 McWhorter, F.P. and H.H. Millsap, 1954  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. nothoscordum mosaic  
 McKinney, H.H., 1950  
 V. panicum mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
 V. sugarcane mosaic  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco mosaic  
 Holmes, Francis O., 1946  
 T. vulgare, Vill.  
 V. maize leaf fleck  
 Stoner, Warren N., 1952  
 V. rice and corn leaf-gall \*  
 Agati, Julian A. and Carlos A. Calica, 1950  
 V. tobacco ring spot  
 Wingard, S.A., 1928
- TRITONIA Ker-Gawl. 1802 (Iridaceae)  
 T. crocata, Ker-Gawl.  
 V. cucumber mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. lily symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 V. tulip breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- TRIUMFETTA Plum. ex L. 1737 (Tiliaceae)  
 T. lappula, L.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958  
 T. semitriloba, Jacq.  
 V. abutilon infectious variegation  
 Bird, Julio, 1958
- TROPAEOLUM L. 1737 (Tropaeolaceae)  
 T. majus, L.  
 V. anemone brown ring \*  
 Hollings, M., 1958  
 V. anemone mosaic \*  
 Hollings, M., 1957  
 V. bean yellow stipple  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
 V. beet curly top  
 Carsner, E., 1919  
 V. cabbage black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
 V. cabbage ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
 V. (cattleya) mosaic  
 Jensen, D.D., 1949  
 V. cauliflower mosaic  
 Tompkins, C.M., 1937  
 V. chrysanthemum B (mild mosaic) \*  
 Hollings, M., 1957  
 V. cowpea mosaic  
 Capoor, S.P. and P.M. Varma, 1956  
 V. euphorbia mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
 V. muskmelon mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
 V. orchid (cymbidium) mosaic  
 Jensen, D.D., 1951  
 V. orchid (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
 V. orchid (vanda) mosaic  
 Murakishi, Harry H., 1952  
 V. panax ring spot  
 Aragaki, M., H. Murakishi and J.W. Hendrix, 1953  
 V. pea mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
 V. primula mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
 T. majus, L. (cont.)  
 V. radish mosaic  
 Tompkins, C.M., 1939  
 V. red currant ring spot  
 Klessner, P.J., 1951  
 V. squash mosaic  
 Freitag, J.H., 1956  
 V. tobacco etch  
 Holmes, Francis O., 1946  
 V. tobacco necrosis  
 Fulton, Robert W., 1950  
 V. tobacco ring spot  
 Wingard, S.A., 1928  
 V. tobacco streak  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 V. tomato aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
 Hollings, M., 1955  
 V. tomato ring spot  
 Samson, R.W. and E.P. Imle, 1942  
 V. tulip breaking  
 McWhorter, F.P., 1935  
 V. turnip mosaic  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 T. majus var. nanum, Hort.  
 V. chrysanthemum stunt  
 Keller, John R., 1953  
 T. peregrinum, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- TULIPA L. 1735 (Liliaceae)  
 T. gesneriana, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 V. iris mosaic  
 Brierley, Philip and Frank P. McWhorter, 1936  
 V. narcissus mosaic  
 Haasis, Frank A., 1939  
 V. onion yellow dwarf  
 Henderson, W.J., 1935  
 V. ornithogalum mosaic  
 Smith, Floyd F. and Philip Brierley, 1944  
 T. silvestris, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 T. spp.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- TUSSILAGO ((Tourn.)) L. 1735 (Compositae)  
 T. farfara, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961
- TYPHA L. 1735 (Typhaceae)  
 T. angustifolia, L.  
 V. cucumber mosaic  
 Wellman, F.L., 1935  
 T. latifolia, L.  
 V. wheat streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- URENA Dill. ex L. 1935 (Malvaceae)  
 U. lobata, L.  
 V. cacao swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- URTICA ((Tourn.)) L. 1735 (Urticaceae)  
 U. californica, Greene  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 U. dioica, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961  
 U. urens, L.  
 V. beet yellows  
 Roland, G. and J. Tahon, 1961

- UVULARIA L. 1737 (Liliaceae)  
*U. sessilifolia*, L.  
*V. cucumber mosaic*  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily symptomless*  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. tulip breaking*  
 Brierley, Philip and Floyd F. Smith, 1944
- VACCINIUM L. 1735 (Ericaceae)  
*V. corymbosum*, L.  
*V. bayberry yellows*  
 Raychaudhuri, S.P., 1953  
*V. macrocarpon*, Ait. (*Oxycoccus macrocarpon*, (Ait.) Pers.)  
*V. bayberry yellows*  
 Raychaudhuri, S.P., 1953
- VALERIANA Tourn. ex L. 1735 (Valerianaceae)  
*V. officinalis*, L.  
*V. cabbage black ring spot*  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- VALERIANELLA Tourn. ex Hall. 1742 (Valerianaceae)  
*V. olitoria*, (L.) Poll.  
*V. pea mosaic*  
 Murphy, D.M. and W.H. Pierce, 1937
- VALERIANOIDES Medic. 1789 (Verbenaceae)  
*V. jamaicensis*, Medic.  
*V. cucumber mosaic*  
 Adsuar, Jose and A. Cruz Miret, 1950  
*V. papaw mosaic*  
 Adsuar, Jose, 1950
- VALLOTA Herb. 1821 (Amaryllidaceae)  
*V. purpurea*, Herb.  
*V. cucumber mosaic*  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily symptomless*  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. tulip breaking*  
 Brierley, Philip and Floyd F. Smith, 1944
- VERBASCUM Tourn. ex L. 1737 (Scrophulariaceae)  
*V. blattaria*, L.  
*V. muskmelon mosaic*  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
*V. phoeniceum*, L.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. thapsus*, L.  
*V. dodder latent mosaic*  
 Bennett, C.W., 1944  
*V. muskmelon mosaic*  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
*V. pea mosaic*  
 Murphy, D.M. and W.H. Pierce, 1937  
*V. prunus A \**  
 Fulton, Robert W., 1957  
*V. prunus E \**  
 Fulton, Robert W., 1957  
*V. stone fruit \**  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954  
*V. tomato ring spot*  
 Samson, R.W. and E.P. Imle, 1942
- VERBENA L. 1737 (Verbenaceae)  
*V. canadensis*, (L.) Britton  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. hybrida*, Voss  
*V. anemone brown ring \**  
 Hollings, M., 1958  
*V. cauliflower mosaic*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*V. chrysanthemum B (mild mosaic) \**  
 Hollings, M., 1957  
*V. cucumber mosaic*  
 Wellman, F.L., 1935  
*V. hybrida*, Voss (cont.)  
*V. primula mosaic*  
 Tompkins, C.M. and John T. Middleton, 1941  
*V. radish mosaic*  
 Tompkins, C.M., 1939  
*V. turnip mosaic*  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*V. prostrata*, R. Br.  
*V. beet curly top*  
 Carsner, E., 1919  
*V. urticifolia*, L.  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938  
*V. venosa*, Gill. & Hook.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1946
- VERBESINA L. 1735 (Compositae)  
*V. encelioides*, (Cav.) Benth. & Hook.  
*V. beet yellow net*  
 McLean, D.M., 1952  
*V. peony leaf curl \**  
 Brierley, Philip and Paul Lorentz, 1957
- VERNONIA Schreb. 1791 (Compositae)  
*V. anthelmintica*, Willd.  
*V. hibiscus yellow vein mosaic*  
 Capoor, S.P. and P.M. Varma, 1950
- VERONICA ((Tourn.)) L. 1735 (Scrophulariaceae)  
*V. agrestis*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. arvensis*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. hederaefolia*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. longifolia*, L.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. officinalis*, L.  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938  
*V. peregrina*, L.  
*V. beet yellows*  
 Roland, G. and J. Tahon, 1961  
*V. tobacco etch*  
 Holmes, Francis O., 1946  
*V. tobacco mosaic*  
 Holmes, Francis O., 1938
- VICIA Tourn. ex L. 1735 (Leguminosae)  
*V. americana*, Muhl.  
*V. bean common mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. bean yellow mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. angustifolia*, L.  
*V. red clover vein mosaic*  
 Graves, Clinton H., Jr. and D.J. Hagedorn, 1956  
*V. atropurpurea*, Desf.  
*V. bean yellow mosaic*  
 Grogan, Raymond G. and J.C. Walker, 1948  
*V. cylindrica*, L. \*  
*V. bean southern mosaic*  
 Zaumeyer, W.J. and L.L. Harter, 1943  
*V. faba*, L.  
*V. anemone brown ring \**  
 Hollings, M., 1958  
*V. bayberry yellows*  
 Raychaudhuri, S.P., 1953  
*V. bean common mosaic*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*V. bean pod mottle*  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*V. bean southern mosaic*  
 Zaumeyer, W.J. and L.L. Harter, 1943

- Vicia faba*, L. (cont.)
- V. bean yellow mosaic  
Grogan, Raymond G. and J. C. Walker, 1948
  - V. bean yellow stipple  
Zaumeyer, W.J. and H. Rex Thomas, 1950
  - V. beet mosaic  
Severin, Henry H.P. and Roger M. Drake, 1948
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. cabbage black ring spot  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
  - V. cabbage ring necrosis  
Larson, R.H. and J.C. Walker, 1941
  - V. canna mosaic  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
  - V. cauliflower mosaic  
Tompkins, C.M., 1937
  - V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. cowpea mosaic  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941  
Yu, T.F., 1946
  - V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C.W., 1951  
Harter, L.L., 1936  
Whipple, O.C. and J.C. Walker, 1941
  - V. (cucumber) O.S.C. isolate 606 \*  
Porter, Clark A. and Frank P. McWhorter, 1951
  - V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. gladiolus \*  
Snow, Gordon F., 1955
  - V. pea enation mosaic  
Chaudhuri, R.P., 1950  
Johnson, Folke and Leon K. Jones, 1937  
Simons, John N., 1954
  - V. pelargonium ring spot \*  
Hollings, M., 1957
  - V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. potato Y  
Bald, J.G. and D.O. Norris, 1945
  - V. radish mosaic  
Tompkins, C.M., 1939
  - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949
  - V. red currant ring spot  
Klessner, P.J., 1951
  - V. soybean mosaic  
Conover, Robert A., 1948
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. squash mosaic (southern)  
Anderson, C.W., 1951
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. turnip crinkle  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip mosaic  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
  - V. turnip rosette \*  
Broadbent, L. and G.D. Heathcote, 1958
  - V. turnip yellow mosaic  
Broadbent, L. and G.D. Heathcote, 1958
  - V. faba var. minor \*  
V. soybean mosaic  
Pierce, W.H., 1935
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949
  - V. faba var. major \*  
V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949
  - V. sativa, L.
  - V. alsike clover mosaic  
Zaumeyer, W.J., 1940
  - V. sativa, L. (cont.)
  - V. bean southern mosaic  
Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic  
Grogan, Raymond G. and J.C. Walker, 1948  
Zaumeyer, W.J., 1940
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. broad bean mottle  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
  - V. cowpea mosaic  
Yu, T.F., 1946
  - V. cucumber mosaic  
Harter, L.L., 1938
  - V. pea enation mosaic  
Chaudhuri, R.P., 1950  
Johnson, Folke and Leon K. Jones, 1937
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. variabilis, Freyn & Sint. ex Freyn
  - V. lucerne witches' broom  
Klostermeyer, E.C. and J.D. Menzies, 1951
  - V. villosa, Roth
  - V. bean southern mosaic  
Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic  
Baggett, James R., 1957
  - V. cowpea mosaic  
Yu, T.F., 1946
  - V. cucumber mosaic  
Harter, L.L., 1938
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. pea enation mosaic  
Simons, John N., 1954
  - V. pea mosaic  
Murphy, D.M. and W.H. Pierce, 1937
  - V. pea streak  
Zaumeyer, W.J., 1938
  - V. red clover vein mosaic  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. tobacco ring spot  
Cooper, W.E., 1949
  - VIGNA Savi 1826? (Leguminosae)
  - V. cylindrica, (L.) Skeels (V. catjang, Walp.)
  - V. bean common mosaic  
Snyder, W.C., 1942
  - V. sesquipedalis, (L.) Fruwirth
  - V. bean common mosaic  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. bean pod mottle  
Zaumeyer, W.J. and H. Rex Thomas, 1948
  - V. bean southern mosaic  
Zaumeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic  
Conover, Robert A., 1948  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. lucerne mosaic  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. pea streak  
Zaumeyer, W.J., 1938
  - V. red clover mosaic \*  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. soybean mosaic  
Conover, Robert A., 1948
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. sinensis, (Torner) Savi
  - V. anemone brown ring \*  
Hollings, M., 1958
  - V. anemone mosaic \*  
Hollings, M., 1957
  - V. bean common mosaic  
Reddick, D. and V.B. Stewart, 1919  
Zaumeyer, W.J. and B.L. Wade, 1935
  - V. bean pod mottle  
Zaumeyer, W.J. and H. Rex Thomas, 1948

- Vigna sinensis*, (Torner) Savi (cont.)
- V. bean southern mosaic  
Zaunmeyer, W.J. and L.L. Harter, 1943
  - V. bean yellow mosaic  
Conover, Robert A., 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Zaunmeyer, W.J., 1952  
Zaunmeyer, W.J. and B.L. Wade, 1935
  - V. beet mosaic  
Pound, Glenn S., 1947
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. broad bean mottle  
Yu, T.F., 1939
  - V. cacao swollen shoot  
Tinsley, T.W. and A.L. Wharton, 1958
  - V. canna mosaic  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
  - V. cauliflower mosaic  
Alvarez-Garcia, L.A., 1951  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. chilli veinbanding  
Simons, John N., 1956
  - V. chrysanthemum B (mild mosaic) \*  
Hollings, M., 1957
  - V. citrus tristeza  
Bennett, C.W. and A.S. Costa, 1949
  - V. cucumber green mottle mosaic  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
  - V. cucumber mosaic  
Anderson, C.W., 1951  
Govier, D.A., 1957  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Simons, John N., 1957  
Wellman, F.L., 1934, 1935
  - V. datura distortion mosaic  
Capoor, S.P. and P.M. Varma, 1952
  - V. filaree red leaf  
Frazier, Norman W., 1951
  - V. hibiscus yellow vein mosaic  
Capoor, S.P. and P.M. Varma, 1950
  - V. lucerne mosaic  
Zaunmeyer, W.J. and B.L. Wade, 1935
  - V. muskmelon mosaic  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. nicotiana glutinosa root necrosis \*  
Cetas, Robert C. and A. Frank Ross, 1952
  - V. orchid (odontoglossum) ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
  - V. orchid (vanda) mosaic  
Murakishi, Harry H., 1952
  - V. pea enation mosaic  
Hagedorn, D.J. and J.C. Walker, 1954  
Stubbs, M.W., 1937
  - V. pea mosaic  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Stubbs, M.W., 1937
  - V. pea mottle  
Johnson, Folke, 1942
  - V. pea streak  
Zaunmeyer, W.J., 1938
  - V. pelargonium ring spot \*  
Hollings, M., 1957
  - V. potato A  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - V. potato Y  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bald, J.G. and D.O. Norris, 1945
  - V. potato yellow dwarf  
Hougas, R.W., 1951
  - V. primula mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. red clover mosaic \*  
Zaunmeyer, W.J. and B.L. Wade, 1935
  - V. red clover vein mosaic  
Hagedorn, D.J. and E.W. Hanson, 1951  
Hagedorn, D.J. and J.C. Walker, 1949, 1954  
Roberts, D.A., 1957
  - V. sinensis*, (Torner) Savi (cont.)
  - V. soybean mosaic  
Conover, Robert A., 1948  
Kendrick, James B. and Max W. Gardner, 1924
  - V. squash mosaic  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. squash mosaic (southern)  
Anderson, C.W., 1951
  - V. stone fruit \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. sweet potato feathery mottle  
Webb, Raymon E., 1954
  - V. tobacco etch  
Anderson, C.W., 1954  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946  
Smith, Kenneth M., 1935
  - V. tobacco ring spot  
Stubbs, M.W., 1937
  - V. turnip mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. watermelon mosaic  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. Wisconsin pea streak  
Hagedorn, D.J. and J.C. Walker, 1949, 1954
  - V. unguiculata, Walp.
  - V. chilli (pepper) mosaic  
Dale, W.T., 1954  
Ferguson, I.A.C., 1951
  - V. cucumber mosaic  
Adsuar, Jose and A. Cruz Miret, 1950  
Vasudeva, R. Sahai and T.B. Lal, 1943
  - V. papaw mosaic  
Adsuar, Jose, 1950
  - V. turnip mosaic  
Dale, W.T., 1948
  - V. vexillata, A. Rich.
  - V. bean yellow stipple  
Zaunmeyer, W.J. and H. Rex Thomas, 1950
- VINCA L. 1735 (Apocynaceae)
- V. minor, L.
  - V. cauliflower mosaic  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
  - V. rosea, L.
  - V. bean pod mottle  
Zaunmeyer, W.J. and H. Rex Thomas, 1948
  - V. beet curly top  
Bennett, C.W. and A.S. Costa, 1949
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. chilli (pepper) mosaic  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. euphorbia mosaic  
Costa, A.S. and C.W. Bennett, 1950
  - V. muskmelon mosaic  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. panicum mosaic \*  
Sill, W.H., Jr. and R.C. Pickett, 1957
  - V. prunus E \*
  - Fulton, Robert W., 1957
  - V. squash mosaic  
Freitag, J.H., 1956
  - V. tobacco etch  
Holmes, Francis O., 1946
  - V. tobacco mosaic  
Holmes, Francis O., 1946
  - V. tomato aspermy  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
  - V. tomato ring spot  
Samson, R.W. and E.P. Imle, 1942
- VIOLA Tourn. ex L. 1735 (Violaceae)
- V. arvensis, Murr.
  - V. beet yellows  
Roland, G. and J. Tahon, 1961
  - V. tobacco etch  
Holmes, Francis O., 1946

- Viola arvensis*, Murr. (cont.)  
*V. tobacco* mosaic  
 Holmes, Francis O., 1946  
*V. cornuta*, L.  
*V. turnip* mosaic  
 Tompkins, C.M., 1939  
*V. floridana*, Brainerd  
*V. cucumber* mosaic  
 Wellman, F.L., 1935  
*V. odorata*, L.  
*V. cucumber* mosaic  
 Wellman, F.L., 1935  
*V. datura* distortion mosaic  
 Capoor, S.P. and P.M. Varma, 1952  
*V. papilionacea*, Pursh  
*V. tobacco* mosaic  
 Holmes, Francis O., 1938  
*V. primulifolia*, L.  
*V. cucumber* mosaic  
 Wellman, F.L., 1935  
*V. sagittata*, Ait.  
*V. tobacco* mosaic  
 Holmes, Francis O., 1938  
*V. spp.*  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1951  
*V. tricolor*, L.  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961  
*V. cabbage* black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
*V. cabbage* ring necrosis  
 Larson, R.H. and J.C. Walker, 1941  
*V. cucumber* mosaic  
 Burnett, G., 1934  
 Govier, D.A., 1957  
 Wellman, F.L., 1935  
*V. euphorbia* mosaic  
 Costa, A.S. and C.W. Bennett, 1950  
*V. primula* mosaic  
 Tompkins, C.M. and John T. Middleton, 1941  
*V. radish* mosaic  
 Tompkins, C.M., 1939  
*V. tomato* aspermy  
 Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
*V. tomato* ring spot  
 Samson, R.W. and E.P. Imle, 1942  
*V. turnip* mosaic  
 Tompkins, C.M., 1938  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*V. tricolor* var. *hortensis*, (Murr.) DC.  
*V. pea* mosaic  
 Murphy, D.M. and W.H. Pierce, 1937  
*V. turnip* crinkle  
 Broadbent, L. and G.D. Heathcote, 1958  
*V. turnip* yellow mosaic  
 Broadbent, L. and G.D. Heathcote, 1958
- VITIS ((Tourn.)) L. 1735 (Vitaceae)  
*V. californica*, Benth.  
*V. filaree* red leaf  
 Frazier, Norman W., 1951  
*V. spp.*  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961
- WALTHERIA L. 1737 (Bombacaceae)  
*W. indica*, L.  
*V. cacao* swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958  
*W. lanceolata*, R. Br. ex Mast.  
*V. cacao* swollen shoot  
 Tinsley, T.W. and A.L. Wharton, 1958
- XANTHIUM ((Tourn.)) L. 1735 (Compositae)  
*X. americanum*, Walt.  
*V. tobacco* ring spot  
 Henderson, R.G. and S.A. Wingard, 1931  
*X. echinatum*, Murr.  
*V. stone* fruit \*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- XANTHOSOMA Schott 1832 (Araceae)  
*X. sagittaeifolium*, (L.) Schott  
*V. cacao* swollen shoot  
 Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
*X. spp.*  
*V. cucumber* mosaic  
 Wellman, F.L., 1935
- XANTHOXALIS Small 1903 (Oxalidaceae)  
*X. corniculata*, Small  
*V. cucumber* mosaic  
 Wellman, F.L., 1935
- XERANTHEMUM Tourn. ex L. 1735 (Compositae)  
*X. annuum*, L.  
*V. chrysanthemum* stunt  
 Brierley, Philip, 1953
- YUCCA Dill. ex L. 1737 (Liliaceae)  
*Y. baccata*, Torr.  
*V. cucumber* mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily* symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. tulip* breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*Y. flaccida*, Haw.  
*V. cucumber* mosaic  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. lily* symptomless  
 Brierley, Philip and Floyd F. Smith, 1944  
*V. tulip* breaking  
 Brierley, Philip and Floyd F. Smith, 1944  
*Y. glauca*, Nutt.  
*V. wheat* streak mosaic  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Y. gloriosa*, L.  
*V. cucumber* mosaic  
 Wellman, F.L., 1935
- ZANTEDESCHIA Spreng. 1826 (Araceae)  
*Z. aethiopica*, Spreng.  
*V. maize* leaf fleck  
 Stoner, Warren N., 1952  
*V. tulip* breaking  
 Brierley, Philip and Floyd F. Smith, 1944
- ZEA L. 1737 (Gramineae)  
*Z. indentata*, Sturtev.  
*V. onion* yellow dwarf  
 Henderson, W.J., 1935  
*Z. mays*, L.  
*V. agropyron* mosaic  
 Slykhuus, J.T., 1952  
*V. barley* yellow dwarf  
 Oswald, John W. and Byron R. Houston, 1953  
*V. beet* yellows  
 Roland, G. and J. Tahon, 1961  
*V. cabbage* black ring spot  
 Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938  
*V. cucumber* mosaic  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Harter, L.L., 1938  
*V. muskmelon* mosaic  
 Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
*V. nothoscordum* mosaic  
 McKinney, H.H., 1950  
*V. orchid* (cymbidium) mosaic  
 Jensen, D.D., 1951  
*V. orchid* (odontoglossum) ring spot  
 Jensen, D.D. and A. Herbert Gold, 1951  
*V. orchid* (vanda) mosaic  
 Murakishi, Harry H., 1952  
*V. panicum* mosaic \*  
 Sill, W.H., Jr. and R.C. Pickett, 1957  
*V. papaw* mosaic  
 Adsuar, Jose, 1950  
*V. pea* mottle  
 Johnson, Folke, 1942  
*V. pea* wilt  
 Johnson, Folke, 1942

- Zea mays*, L. (cont.)
- V. *primula* mosaic  
Tompkins, C.M. and John T. Middleton, 1941
  - V. *radish* mosaic  
Tompkins, C.M., 1939
  - V. *soil-borne oat* mosaic  
McKinney, H.H., 1946
  - V. *squash* mosaic  
Freitag, J.H., 1956
  - V. *tobacco etch*  
Holmes, Francis O., 1946
  - V. *tobacco mosaic*  
Holmes, Francis O., 1946
  - V. *tobacco ring spot*  
Cheo, Pen Ching and W.J. Zaumeyer, 1952
  - V. *tomato aspermy*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
  - V. *tulip breaking*  
Brierley, Philip and Floyd F. Smith, 1944
  - V. *turnip mosaic*  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
  - V. *wheat streak mosaic*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J.T., 1952
- ZEBRINA** Schnizl. 1849 (Commelinaceae)
- Z. pendula*, Schnizl.
- V. *muskmelon* mosaic  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. *tobacco ring spot*  
Wingard, S.A., 1928
  - V. *wheat streak mosaic*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- ZEPHYRANTHES** Herb. 1821 (Amaryllidaceae)
- Z. candida*, Herb.
- V. *narcissus* mosaic  
Haasis, Frank A., 1939
- Z. spp.*
- V. *ornithogalum* mosaic  
Smith, Floyd F. and Philip Brierley, 1944
  - V. *tulip breaking*  
Brierley, Philip and Floyd F. Smith, 1944
- ZINNIA** L. 1759 (Compositae)
- Z. elegans*, Jacq.
- V. *abutilon* infectious variegation  
Bird, Julio, 1958
  - V. *anemone brown ring* \*  
Hollings, M., 1958
  - V. *bean yellow* mosaic  
Thomas, H. Rex and W.J. Zaumeyer, 1953
  - V. *beet curly top*  
Costa, A.S., 1952
  - V. *beet mosaic*  
Bennett, C.W., 1949
  - V. *beet yellow net*  
McLean, D.M., 1952
  - V. *beet yellows*  
Roland, G. and J. Tahon, 1961
  - V. *cauliflower* mosaic  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954
  - V. *celery* mosaic  
Freitag, Julius H. and Henry H.P. Severin, 1945
  - V. *chilli (pepper)* mosaic  
Dale, W.T., 1954  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
  - V. *chrysanthemum B (mild mosaic)* \*  
Hollings, M., 1957
  - V. *chrysanthemum ring spot*  
Brierley, Philip and Floyd F. Smith, 1955
  - V. *cowpea* mosaic  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941  
Yu, T.F., 1946
  - V. *cucumber* mosaic  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. (cucumber) O.S.C. isolate 606 \*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Z. elegans*, Jacq. (cont.)
- V. *datura distortion* mosaic  
Capoor, S.P. and P.M. Varma, 1952
  - V. *eggplant* mosaic  
Dale, W.T., 1954
  - V. *euphorbia* mosaic  
Costa, A.S. and C.W. Bennett, 1950
  - V. *gladiolus* \*  
Snow, Gordon F., 1955
  - V. *hibiscus yellow vein* mosaic  
Capoor, S.P. and P.M. Varma, 1950
  - V. *hydrangea ring spot*  
Brierley, Philip and Paul Lorentz, 1957
  - V. *lucerne* mosaic  
Johnson, E.M., 1946  
Zaumeyer, W.J., 1938
  - V. *muskmelon* mosaic  
Anderson, C.W., 1954  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
  - V. *nicotiana glutinosa* root necrosis \*  
Cetas, Robert C. and A. Frank Ross, 1952
  - V. *orchid (vanda)* mosaic  
Murakishi, Harry H., 1952
  - V. *pea mottle*  
Johnson, Folke, 1942
  - V. *pea streak*  
Zaumeyer, W.J., 1938
  - V. *pea wilt*  
Johnson, Folke, 1942
  - V. *pelargonium ring spot* \*  
Hollings, M., 1957
  - V. *potato Y*  
Bald, J.G. and D.O. Norris, 1945
  - V. *prunus A* \*  
Fulton, Robert W., 1957
  - V. *prunus E* \*  
Fulton, Robert W., 1957
  - V. *squash* mosaic  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - V. *squash* mosaic (southern)  
Anderson, C.W., 1951
  - V. *stone fruit* \*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
  - V. *tobacco* mosaic  
Das, C.R. and S.P. Raychaudhuri, 1953
  - V. *tobacco ring spot*  
Cooper, W.E., 1949
  - V. *tobacco streak*  
Thomas, H. Rex and W.J. Zaumeyer, 1950
  - V. *tomato ring spot*  
Samson, R.W. and E.P. Imle, 1942
  - V. *watermelon* mosaic  
Anderson, C.W., 1954  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Z. haageana*, Regel
- V. *tobacco etch*  
Holmes, Francis O., 1946
- Z. linearis*, Benth.
- V. *potato A*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Z. multiflora*, L.
- V. *bayberry yellows*  
Raychaudhuri, S.P., 1953
- Z. spp.*
- V. *citrus tristeza*  
Knorr, L.C., 1956
  - V. *orchid (odontoglossum)* ring spot  
Jensen, D.D. and A. Herbert Gold, 1951
- ZYGOCACTUS** K. Schum. \* (Cactaceae)
- Z. truncatus*, Schum.
- V. *beet yellows*  
Roland, G. and J. Tahon, 1961



- VIRUS
- V. ABACA BUNCHY TOP *Ocfemia* 1930  
*Musa paradisiaca* var. *cinerea*  
*Ocfemia*, Gerardo Offimaria, 1930  
*Musa paradisiaca* var. *lacatan*  
*Ocfemia*, Gerardo Offimaria, 1930  
*Musa paradisiaca* var. *suaveolens*  
*Ocfemia*, Gerardo Offimaria, 1930  
*Musa textilis*  
 Calinisan, Melanio R., 1931  
 Calinisan, Melanio R. and Crispiniano C. Hernandez, 1936  
*Ocfemia*, G. O., 1926, 1930  
*Ocfemia*, G. O. and Gabino G. Buhay, 1934  
*Ocfemia*, G. O., Martin S. Celino and Feliciano J. Garcia, 1947  
*Musa textilis* x *M. balbisiana*  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- V. ABUTILON INFECTIOUS VARIEGATION ((Morren 1869)) Brierley 1944  
*Abutilon mulleri friderici*  
 Keur, John Y., 1933  
*Abutilon regnellii*  
 Keur, John Y., 1933  
*Abutilon striatum*, clone *thompsonii*  
 Keur, John Y., 1933, 1934  
*Althaea rosea*  
 Bird, Julio, 1958  
*Gossypium* spp.  
 Crandall, Bowen S., 1954  
*Hibiscus cannabinus*  
 Crandall, Bowen S., 1954  
*Malvastrum coromandelianum*  
 Crandall, Bowen S., 1954  
*Mucuna pruriens*  
 Crandall, Bowen S., 1954  
*Mucuna* spp.  
 Crandall, Bowen S., 1954  
*Nicandra physalodes*  
 Silberschmidt, K. and L.R. Tommasi, 1956  
*Nicotiana tabacum*  
 Bird, Julio, 1958  
*Phenax sonneratii*  
 Silberschmidt, Karl M., 1948  
*Sida carpinifolia*  
 Bird, Julio, 1958  
*Sida rhombifolia*  
 Bird, Julio, 1958  
 Costa, A. S. and C. W. Bennett, 1950  
 Kunkel, L. O., 1930  
 Silberschmidt, K. and L.R. Tommasi, 1956  
*Solanum tuberosum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. AGROPYRON MOSAIC McKinney 1944  
*Agropyron elongatum*  
 Slykhuis, J. T., 1952  
*Agropyron inerme*  
 Slykhuis, J. T., 1952  
*Agropyron intermedium*  
 Slykhuis, J. T., 1952  
*Agropyron junceum*  
 Slykhuis, J. T., 1952  
*Agropyron pertense*  
 Slykhuis, J. T., 1952  
*Agropyron repens*  
 Slykhuis, J. T., 1952  
*Agropyron rigidum*  
 Slykhuis, J. T., 1952  
*Festuca rubra*  
 Slykhuis, J. T., 1952  
*Secale cereale*  
 Slykhuis, J. T., 1952  
*Triticum durum*  
 Slykhuis, J. T., 1952  
*Triticum vulgare*  
 Slykhuis, J. T., 1952
- V. ALMOND BUD FAILURE Wilson and Stout 1951  
*Prunus amygdalus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- VIRUS
- V. ALMOND CALICO Thomas and Rawlins 1939  
*Prunus amygdalus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Prunus avium*  
 Thomas, H. Earl and T.E. Rawlins, 1939  
*Prunus communis*  
 Thomas, H. Earl and T.E. Rawlins, 1939  
*Prunus persica*  
 Thomas, H. Earl and T.E. Rawlins, 1939
- V. ALSIKE CLOVER MOSAIC Zaumeyer and Wade 1935  
*Crotalaria spectabilis*  
 Zaumeyer, W.J., 1940  
*Crotalaria striata*  
 Zaumeyer, W.J., 1940  
*Lupinus albus*  
 Zaumeyer, W.J., 1940  
*Lupinus angustifolius*  
 Zaumeyer, W.J., 1940  
*Medicago sativa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Zaumeyer, W.J., 1940  
*Melilotus alba*  
 Zaumeyer, W.J., 1940  
*Phaseolus vulgaris*  
 Harrison, Arthur L., 1935  
 Zaumeyer, W.J., 1933, 1940  
 Zaumeyer, W.J. and B.L. Wade, 1935, 1936  
*Pisum sativum*  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1936  
*Trifolium hybridum*  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Trifolium incarnatum*  
 Zaumeyer, W.J., 1940  
*Trifolium pratense*  
 Hanson, E.W. and D.J. Hagedorn, 1952  
*Vicia faba*  
 Wade, B.L. and W.J. Zaumeyer, 1938  
 Zaumeyer, W.J., 1940  
 Zaumeyer, W.J. and B.L. Wade, 1936
- V. ANEMONE BROWN RING \*  
*Amaranthus caudatus*  
 Hollings, M., 1958  
*Anemone coronaria*  
 Hollings, M., 1958  
*Aquilegia caerulea*  
 Hollings, M., 1958  
*Chenopodium amaranticolor*  
 Hollings, M., 1957, 1958  
*Gomphrena globosa*  
 Hollings, M., 1958  
*Lathyrus odoratus*  
 Hollings, M., 1958  
*Lycopersicon esculentum*  
 Hollings, M., 1958  
*Portulaca oleracea*  
 Hollings, M., 1958  
*Tetragonia expansa*  
 Hollings, M., 1958
- V. ANEMONE LATENT \*  
*Chenopodium amaranticolor*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Delphinium* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. ANEMONE MOSAIC \*  
*Ageratum conyzoides*  
 Hollings, M., 1957  
*Alonsoa warscewiczii*  
 Hollings, M., 1957  
*Amaranthus caudatus*  
 Hollings, M., 1957  
*Anemone coronaria*  
 Hollings, M., 1957  
*Anemone nemorosa*  
 Hollings, M., 1957

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## V. ANEMONE MOSAIC \* (cont.)

- Aquilegia caerulea*  
Hollings, M., 1957
- Brassica hirta* (*Brassica alba*)  
Hollings, M., 1957
- Brassica napus*  
Hollings, M., 1957
- Brassica oleracea* var. *capitata*  
Hollings, M., 1957
- Brassica pekinensis*  
Hollings, M., 1957
- Brassica rapa*  
Hollings, M., 1957
- Capsella bursa-pastoris*  
Hollings, M., 1957
- Cerastium vulgatum*  
Hollings, M., 1957
- Chenopodium album*  
Hollings, M., 1957
- Chenopodium amaranticolor*  
Hollings, M., 1956, 1957
- Chrysanthemum carinatum*  
Hollings, M., 1957
- Convolvulus tricolor*  
Hollings, M., 1957
- Delphinium grandiflorum*  
Hollings, M., 1957
- Fumaria officinalis*  
Hollings, M., 1957
- Galium aparine*  
Hollings, M., 1957
- Geum chiloense*  
Hollings, M., 1957
- Gomphrena globosa*  
Hollings, M., 1957
- Lactuca muralis*  
Hollings, M., 1957
- Lavatera trimestris*  
Hollings, M., 1957
- Malcomia maritima*  
Hollings, M., 1957
- Matthiola incana* var. *annua*  
Hollings, M., 1957
- Mimulus luteus*  
Hollings, M., 1957
- Nicotiana glutinosa*  
Hollings, M., 1957
- Nicotiana rustica*  
Hollings, M., 1957
- Nicotiana tabacum*  
Hollings, M., 1957
- Papaver rhoeas*  
Hollings, M., 1957
- Papaver somniferum*  
Hollings, M., 1957
- Passiflora caerulea*  
Hollings, M., 1957
- Petunia hybrida*  
Hollings, M., 1957
- Physalis peruviana*  
Hollings, M., 1957
- Primula sinensis*  
Hollings, M., 1957
- Ranunculus* spp.  
Hollings, M., 1957
- Saintpaulia ionantha*  
Hollings, M., 1957
- Salpiglossis sinuata*  
Hollings, M., 1957
- Schizanthus pinnatus*  
Hollings, M., 1957
- Senecio vulgaris*  
Hollings, M., 1957
- Sisymbrium officinale*  
Hollings, M., 1957
- Tagetes erecta*  
Hollings, M., 1957
- Tetragonia expansa*  
Hollings, M., 1957
- Thlaspi arvense*  
Hollings, M., 1957
- Verbena hybrida*  
Hollings, M., 1957

## VIRUS

## V. ANEMONE MOSAIC \* (cont.)

- Vicia faba*  
Hollings, M., 1957
- Zinnia elegans*  
Hollings, M., 1957
- V. APPLE \*
- Amelanchier* spp.  
Millikan, D.F. and H.W. Guengerich, 1956
- Datura innoxia*  
Hilborn, M.T. and Reiner Bonde, 1956
- Malus sylvestris*  
Hilborn, M.T. and Reiner Bonde, 1956  
Millikan, D.F. and H.W. Guengerich, 1956
- V. APPLE DWARF FRUIT Cation and Gibson 1952
- Malus coronaria*  
Cation, Donald and Roy E. Gibson, 1952
- Malus sylvestris*  
Cation, Donald and Roy E. Gibson, 1952
- V. APPLE FALSE STING Hockey 1943
- Malus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Malus sylvestris*  
Hockey, J.F., 1941, 1943
- V. APPLE GREEN MOTTLE Palmiter and Parker 1955
- Malus sylvestris*  
Palmiter, D.H. and K.G. Parker, 1955
- V. APPLE MOSAIC Khristov 1934 ((May be identical with V. Plum line pattern, Gilmer 1956
- Cotoneaster* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cucumis sativus*  
Yarwood, C.E., 1955  
Yarwood, C.E. and H.E. Thomas, 1954
- Cyamopsis tetragonoloba*  
Yarwood, C.E., 1955
- Eriobotrya* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Fragaria vesca* var. *alpina* \*  
Yarwood, C.E., 1955
- Gomphrena globosa*  
Yarwood, C.E., 1955
- Lycopersicon esculentum*  
Yarwood, C.E., 1955  
Yarwood, C.E. and H.E. Thomas, 1954
- Malus baccata*  
Hockey, J.F., 1943
- Malus spectabilis*  
Thomas, H. Earl and L.M. Massey, 1939
- Malus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Malus sylvestris*  
Blodgett, F.M., 1938  
Fulton, Robert W., 1956  
Gilmer, R.M., 1956  
Hockey, J.F., 1943  
Hunter, J.A., E.E. Chamberlain and J.D. Atkinson, 1958  
Kirkpatrick, Hugh C., 1955  
Posnette, A.F. and R. Cropley, 1956  
Posnette, A.F. and Christina E. Ellenberger, 1957  
Yarwood, C.E., 1955, 1957  
Yarwood, C.E. and H.E. Thomas, 1954
- Nicotiana glutinosa*  
Yarwood, C.E., 1955
- Nicotiana tabacum*  
Fulton, Robert W., 1956  
Yarwood, C.E., 1955, 1957  
Yarwood, C.E. and H.E. Thomas, 1954
- Phaseolus vulgaris*  
Yarwood, C.E., 1955  
Yarwood, C.E. and H.E. Thomas, 1954
- Photinia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Phytolacca americana*  
Yarwood, C.E., 1955
- Prunus americana* x *P. salicina*  
Gilmer, R.M., 1956

## VIRUS

- V. APPLE MOSAIC (cont.)  
*Prunus americana* x *P. salicina*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus avium*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus cerasifera*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus domestica*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus gigantea* \*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus insititia*  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Prunus persica*  
 Kirkpatrick, Hugh C., 1955  
 Posnette, A. F. and Christina E. Ellenberger, 1957  
*Rosa hybrid*  
 Thomas, H. Earl and L. M. Massey, 1939  
*Sorbus sitchensis*  
 Thomas, H. Earl and L. M. Massey, 1939  
*Vicia faba*  
 Yarwood, C. E., 1955  
 Yarwood, C. E. and H. E. Thomas, 1954  
*Vigna sinensis*  
 Yarwood, C. E., 1955  
 Yarwood, C. E. and H. E. Thomas, 1954
- V. APPLE RING SPOT Atkinson et al. 1954  
*Malus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APPLE ROSETTE Van Katwijk 1953  
*Malus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APPLE ROUGH SKIN Van Katwijk 1955  
*Malus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APPLE RUBBERY WOOD Prentice 1950  
*Malus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APPLE STEM PITTING \*  
*Malus sylvestris* on *M. angustifolia*  
 Guengerick, H. W. and D. F. Millikan, 1956
- V. APPLE WITCHES' BROOM Rui 1950  
*Malus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APRICOT MOORPARK MOTTLE Chamberlain et al. 1954  
*Prunus armeniaca*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Prunus cerasifera*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Prunus persica*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. APRICOT RING POX Reeves 1943  
*Phaseolus vulgaris*  
 Yarwood, C. E., 1957  
*Prunus armeniaca*  
 Reeves, E. L. and Philip W. Cheney, 1956  
 Simonds, Austin O., 1951  
*Prunus domestica*  
 Simonds, Austin O., 1951  
*Prunus persica*  
 Simonds, Austin O., 1951  
 Yarwood, C. E., 1957
- V. ARABIS MOSAIC Smith and Markham 1944  
*Arabis hirsuta*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Cucumis sativus*  
 Smith, Kenneth M. and Roy Markham, 1944

## VIRUS

- V. ARABIS MOSAIC (cont.)  
*Nicotiana glutinosa*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana tabacum*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Phaseolus vulgaris*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Solanum nodiflorum*  
 Smith, Kenneth M. and Roy Markham, 1944
- V. ASCLEPIAS YELLOWS \*  
*Asclepias syriaca*  
 Kunkel, L. O., 1950  
*Daucus carota* var. *sativa*  
 Kunkel, L. O., 1950  
*Lycopersicon esculentum*  
 Kunkel, L. O., 1950  
*Vinca rosea*  
 Kunkel, L. O., 1950
- V. ASH INFECTIOUS VARIEGATION Atanasoff 1935  
*Pyrus aucuparia*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. ASH WITCHES' BROOM Plakidas 1949  
*Fraxinus berlandieriana*  
 Plakidas, A. G., 1949
- V. ASTER YELLOWS Kunkel 1926, 1936  
*Adonis aestivalis*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Allium ascalonicum*  
 Smith, Floyd F. and Philip Brierley, 1948  
*Allium cepa*  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*Alyssum compactum* var. *procumbens* \*  
 Kunkel, L. O., 1926  
*Amaranthus auroro* or *aurora* \*  
 Kunkel, L. O., 1926  
*Amaranthus caudatus*  
 Kunkel, L. O., 1926  
*Amaranthus retroflexus*  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
*Ambrosia artemisiifolia*  
 Kunkel, L. O., 1926  
 Younkin, S. G., 1943  
*Ambrosia trifida*  
 Kunkel, L. O., 1926  
*Ammobium alatum*  
 Kunkel, L. O., 1926  
*Anagallis arvensis*  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
*Anemone coronaria*  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*Anethum graveolens*  
 Kunkel, L. O., 1926  
*Anthemis cotula*  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
*Apium graveolens*  
 George, J. A. and J. K. Richardson, 1957  
 Raymer, W. B. and Clark R. Amen, 1954  
*Apium graveolens* var. *dulce*  
 Freitag, J. H., 1956  
 Magie, R. O., Floyd F. Smith and Philip Brierley, 1952  
 Raymer, W. B., 1956  
 Severin, H. H. P., 1928, 1929, 1930, 1932, 1934  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
 Severin, Henry H. P. and Sidney J. Oliver, 1939  
 Smith, Floyd F. and Philip Brierley, 1953  
*Apium graveolens* var. *rapaceum*  
 Severin, Henry H. P., 1929, 1932  
 Severin, Henry H. P. and Julius H. Freitag, 1945  
*Asclepias nivea*  
 Kunkel, L. O., 1926  
*Aster chilensis*  
 Frazier, Norman W. and Henry H. P. Severin, 1945  
*Aster novae-angliae*  
 George, J. A. and J. K. Richardson, 1957  
*Begonia semperflorens*  
 Kunkel, L. O., 1926  
*Bellis perennis*  
 Kunkel, L. O., 1926

## VIRUS

## V. ASTER YELLOWS (cont.)

- Bidens frondosa*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Bidens pilosa*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Brachycome iberidifolia*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Brassica campestris*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Brassica hirta* (*Brassica alba*)  
Severin, Henry H. P., 1934
- Brassica oleracea* var. *botrytis*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Brassica oleracea* var. *capitata*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Brassica oleracea* var. *italica*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Browallia americana* (*Browallia demissa*)  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Calandrinia grandiflora*  
Kunkel, L. O., 1926
- Calceolaria crenatiflora*  
Kunkel, L. O., 1926
- Calendula officinalis*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Calendula* spp.  
Severin, Henry H. P., 1934
- Callistephus chinensis*  
Black, L. M., 1941  
Brierley, Philip and Floyd F. Smith, 1957  
Freitag, Julius H., 1956  
Johnson, Folke, 1941  
Kunkel, L. O., 1924, 1926  
Magie, R. O., Floyd F. Smith and Philip Brierley, 1952  
Maramorosch, Karl, 1952, 1955  
Raymer, W. B., 1956  
Raymer, W. B. and Clark R. Amen, 1954  
Severin, Henry H. P., 1929, 1932, 1934, 1940  
Severin, Henry H. P. and Julius H. Freitag, 1945  
Smith, Floyd F. and Philip Brierley, 1948, 1951, 1953  
Younkin, S. G., 1943
- Canna generalis*  
Smith, Floyd F. and Philip Brierley, 1951
- Capsella bursa-pastoris*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Centaurea americana*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Centaurea cyanus*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Centaurea imperialis*  
Kunkel, L. O., 1926, 1928
- Centaurea margaritacea*  
Kunkel, L. O., 1926
- Centaurea melitensis*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Cheiranthus allionii*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Cheiranthus cheiri*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Chrysanthemum carinatum*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Chrysanthemum coronarium*  
Kunkel, L. O., 1926
- Chrysanthemum frutescens*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Chrysanthemum hortorum*  
Smith, Floyd F. and Philip Brierley, 1948
- Chrysanthemum leucanthemum*  
Kunkel, L. O., 1926
- Chrysanthemum leucanthemum* var. *maximum* \*  
Kunkel, L. O., 1926
- Chrysanthemum maximum*  
Kunkel, L. O., 1926
- Chrysanthemum morifolium*  
Brierley, Philip and Floyd F. Smith, 1957  
Smith, Floyd F. and Philip Brierley, 1953

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## V. ASTER YELLOWS (cont.)

- Chrysanthemum segetum*  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Chrysanthemum segetum* x *C. carinatum*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Chrysanthemum* spp.  
Kunkel, L. O., 1926
- Cichorium endivia*  
Linn, M. B., 1940  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Cichorium intybus*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Clarkia elegans*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Coreopsis drummondii*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Coreopsis grandiflora*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Coreopsis tinctoria*  
Kunkel, L. O., 1926
- Cosmidium burridgeanum*  
Kunkel, L. O., 1926
- Cosmos bipinnatus*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Cotula australis*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Cucumis melo*  
Freitag, Julius H., 1956
- Cucumis sativus*  
Freitag, J. H., 1956
- Cucurbita maxima*  
Freitag, J. H., 1956
- Cucurbita mixta*  
Freitag, J. H., 1956
- Cucurbita moschata*  
Freitag, J. H., 1956
- Cucurbita pepo*  
Freitag, J. H., 1956
- Dahlia variabilis*  
Smith, Floyd F. and Philip Brierley, 1953
- Datura stramonium*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Raymer, W. B., 1956
- Daucus carota*  
George, J. A. and J. K. Richardson, 1957
- Daucus carota* var. *sativa*  
Hervey, G. E. R. and W. T. Schroeder, 1949  
Severin, H. H. P., 1930, 1932, 1934  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Delphinium ajacis*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Delphinium cultorum*  
Severin, Henry H. P. and Julius H. Freitag, 1945  
Severin, Henry H. P. and Sidney J. Oliver, 1939
- Delphinium grandiflorum* var. *album*  
Severin, Henry H. P., 1942
- Delphinium hybrid*  
Severin, Henry H. P., 1942
- Delphinium* spp.  
Severin, Henry H. P., 1942
- Dianthus barbatus*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Dianthus caryophyllus*  
Brierley, Philip and Floyd F. Smith, 1957  
Jones, Leon K., 1945  
Thomas, W. D., Jr., 1953
- Didiscus caeruleus*  
Kunkel, L. O., 1926
- Dimorphotheca aurantiacum*  
Kunkel, L. O., 1926
- Diplacus aurantiacus*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Dipsacus fullonum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Epilobium californicum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Epilobium paniculatum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Erigeron annuus*  
Kunkel, L. O., 1926

## VIRUS

## V. ASTER YELLOWS (cont.)

- Erigeron canadensis*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Kunkel, L. O., 1926  
McClintock, J. A., 1931
- Erigeron linifolius*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Erodium cicutarium*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Erodium moschatum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Eschscholtzia californica*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Fagopyrum esculentum*  
Kunkel, L. O., 1926
- Fragaria bracteata*  
Frazier, Norman W. and Harold E. Thomas, 1953
- Fragaria californica*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Fragaria chiloensis* var. *ananassa*  
Frazier, Norman W. and Harold E. Thomas, 1953  
Fulton, J. P., 1957
- Fragaria vesca*  
Fulton, J. P., 1957
- Fragaria vesca* var. *americana*  
Frazier, Norman W. and Harold E. Thomas, 1953
- Gaillardia aristata*  
Kunkel, L. O., 1926
- Gaillardia pulchella* var. *picta*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Gaura lindheimeri*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Geranium dissectum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Geum chiloense*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Gilia capitata* var. *achilleaeifolia*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Gladiolus hortulanus*  
Magie, R. O., Floyd F. Smith and Philip Brierley, 1952  
Smith, Floyd F. and Philip Brierley, 1953
- Gladiolus* spp.  
Smith, Floyd F. and Philip Brierley, 1948
- Gnaphalium decurrens* var. *californicum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Gnaphalium ramosissimum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Godetia grandiflora*  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Gysophila paniculata*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Helenium puberulum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Helichrysum arenarium*  
Kunkel, L. O., 1926
- Helichrysum bracteatum*  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Hemizonia corymbosa*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Hydrangea macrophylla*  
Brierley, Philip and Floyd F. Smith, 1954
- Ilysanthes dubia*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Lactuca altaica*  
Tompson, Ross C., 1944
- Lactuca canadensis*  
Tompson, Ross C., 1944
- Lactuca floridana*  
Tompson, Ross C., 1944
- Lactuca graminifolia*  
Tompson, Ross C., 1944
- Lactuca indica*  
Tompson, Ross C., 1944
- Lactuca laciniata*  
Tompson, Ross C., 1944
- Lactuca muralis*  
Tompson, Ross C., 1944

## VIRUS

## V. ASTER YELLOWS (cont.)

- Lactuca muralis*  
Tompson, Ross C., 1944
- Lactuca perennis*  
Tompson, Ross C., 1944
- Lactuca raddeana*  
Tompson, Ross C., 1944
- Lactuca saligna*  
Tompson, Ross C., 1944
- Lactuca sativa*  
Brierley, Philip and Floyd F. Smith, 1944  
Kunkel, L. O., 1926  
Lee, P. E. and A. G. Robinson, 1958  
Linn, M. B., 1940  
Raymer, W. B. and Clark R. Amen, 1954  
Severin, H. H. P., 1928, 1929  
Severin, Henry H. P. and Julius H. Freitag, 1945  
Smith, Floyd F. and Philip Brierley, 1951  
Tompson, Ross C., 1944
- Lactuca sativa* var. *longifolia*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Lactuca scariola* var. *integrata*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Lactuca serriola*  
Tompson, Ross C., 1944
- Lactuca spicata*  
Tompson, Ross C., 1944
- Lactuca squarrosa*  
Tompson, Ross C., 1944
- Lactuca virosa*  
Tompson, Ross C., 1944
- Lamium amplexicaule*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Lavandula officinalis*  
Kunkel, L. O., 1926
- Limonium sinuatum*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Linaria bipartita*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Linaria canadensis*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Linum usitatissimum*  
Severin, Henry H. P. and Byron R. Houston, 1945
- Lotus salsuginosus*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Lycopersicon esculentum*  
Kunkel, L. O., 1930  
Raymer, W. B., 1956
- Madia sativa*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Malcomia maritima*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Malva nicaeensis*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Malva parviflora*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Malva rotundifolia*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Martynia louisiana*  
Kunkel, L. O., 1926
- Matricaria alba*  
Kunkel, L. O., 1926
- Matricaria suaveolens*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Medicago hispida*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Melilotus alba*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Mimulus cardinalis*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Mimulus guttatus*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Mimulus luteus*  
Kunkel, L. O., 1926
- Myosotis scorpioides*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Nemesia strumosa*  
Kunkel, L. O., 1926
- Nemophila maculata*  
Kunkel, L. O., 1926

## VIRUS

## V. ASTER YELLOWS (cont.)

- Nicotiana rustica*  
Johnson, Folke, 1941  
Kunkel, L. O., 1930  
Raymer, W. B., 1956  
Self, R. L. and H. M. Darling, 1949  
Younkin, S. G., 1943
- Nigella damascena*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Pastinaca sativa*  
Severin, Henry H. P., 1932, 1934  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Petroselinum crispum*  
Severin, H. H. P., 1930  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Petroselinum hortense*  
Severin, Henry H. P., 1932, 1934
- Petroselinum hortense* var. *crispum* \*  
Severin, Henry H. P., 1932
- Petroselinum hortense* var. *radicosum* \*  
Severin, Henry H. P., 1932, 1934
- Petunia hybrida*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Phlox drummondii*  
Kunkel, L. O., 1926  
Severin, Henry H. P., 1943  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Phlox paniculata*  
Kunkel, L. O., 1926
- Picris echioides*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Pimpinella anisum*  
Kunkel, L. O., 1926
- Plantago major*  
Frazier, Norman W. and Harold E. Thomas, 1953  
Freitag, J. H., 1956  
Kunkel, L. O., 1926, 1928  
Severin, Henry H. P., 1929, 1934
- Polygonum aviculare*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Polygonum convolvulus*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Portulaca grandiflora*  
Kunkel, L. O., 1926
- Portulaca oleracea*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Primula elatior*  
Kunkel, L. O., 1926
- Primula obconica*  
Severin, Henry H. P. and C. M. Tompkins, 1950
- Primula polyantha*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Pyrethrum* spp.  
Kunkel, L. O., 1926
- Ranunculus asiaticus*  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Raphanus sativus*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Reseda odorata*  
Kunkel, L. O., 1926
- Rorippa curvisiliqua*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Rorippa sylvestris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rudbeckia hirta*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Rumex acetosella*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Salpiglossis sinuata*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Salvia azurea* var. *pitcheri*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Satureia hortensis*  
Kunkel, L. O., 1926
- Scabiosa atropurpurea*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Schizanthus pinnatus*  
Kunkel, L. O., 1926

## VIRUS

## V. ASTER YELLOWS (cont.)

- Scorzonera hispanica*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Scrophularia californica*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Senecio hybridus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Senecio vulgaris*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Silene pendula*  
Kunkel, L. O., 1926
- Sinningia speciosa*  
Kunkel, L. O., 1926
- Solanum nigrum*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Solanum tuberosum*  
Bonde, Reiner and E. S. Schultz, 1947  
Burke, O. D., 1941  
Jensen, James H. and H. Douglas Tate, 1947  
Leach, J. G. and C. Franklin Bishop, 1944  
Milbrath, J. A. and W. H. English, 1948, 1949  
Raymer, W. B., 1956  
Raymer, W. B. and Clark R. Amen, 1954  
Self, R. L. and H. M. Darling, 1949  
Severin, Henry H. P., 1940  
Severin, Henry H. P. and Julius H. Freitag, 1945  
Severin, Henry H. P. and Frank A. Haasis, 1934  
Younkin, S. G., 1943
- Sonchus arvensis*  
Kunkel, L. O., 1926
- Sonchus asper*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Sonchus oleraceus*  
Frazier, Norman W. and Henry H. P. Severin, 1945  
Kunkel, L. O., 1926
- Spergularia arvensis*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Spinacia oleracea*  
Kunkel, L. O., 1926  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Stellaria media*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Tagetes erecta*  
Kunkel, L. O., 1926  
Severin, Henry H. P., 1929  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Tagetes patula*  
Severin, Henry H. P. and Julius H. Freitag, 1934, 1945
- Taraxacum officinale*  
Kunkel, L. O., 1926
- Trachymene caerulea*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Tragopogon porrifolius*  
Kunkel, L. O., 1926  
Severin, Henry H. P., 1934
- Trifolium hybridum*  
Raymer, W. B., 1956
- Trifolium incarnatum*  
Raymer, W. B., 1956
- Trifolium pratense*  
Raymer, W. B., 1956
- Trifolium repens*  
Raymer, W. B., 1956  
Raymer, W. B. and Clark R. Amen, 1954  
Webb, R. E. and E. S. Schultz, 1955
- Tropaeolum majus*  
Severin, Henry H. P. and Julius H. Freitag, 1945
- Urtica californica*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Veronica americana*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Veronica buxbaumii*  
Frazier, Norman W. and Henry H. P. Severin, 1945
- Veronica peregrina*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Vinca rosea*  
Brierley, Philip and Floyd F. Smith, 1957  
Fulton, J. P., 1957  
Marmorosch, Karl, 1957
- Viola tricolor*  
Brierley, Philip and Floyd F. Smith, 1954

## VIRUS

- V. ASTER YELLOW (cont.)  
*Zinnia elegans*  
 George, J. A. and J. K. Richardson, 1957  
 Magie, R. O., Floyd F. Smith and Philip Brierley, 1952  
 Severin, Henry H. P., 1929, 1934  
 Severin, Henry H. P. and Julius H. Freitag, 1934, 1945  
 Smith, Floyd F. and Philip Brierley, 1953  
*Zinnia haageana*  
 Severin, Henry H. P., 1934
- V. ATROPA BELLADONNA MOSAIC Smith 1943  
*Atropa belladonna*  
 R. A. M. 22: 451, 1943  
*Datura stramonium*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Hyocymus niger*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Phaseolus vulgaris*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Solanum nigrum*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. AVOCADO PEAR SUN BLOTCH Horne and Parker 1930  
*Persea americana*  
 Horne, W. T. and E. R. Parker, 1931  
 Stevens, H. E., 1939
- V. BABIANA MOSAIC Smith and Brierley 1944  
*Babiana* spp.  
 Smith, Floyd F. and Philip Brierley, 1944  
*Tritonia crocata*  
 Smith, Floyd F. and Philip Brierley, 1944
- V. BANANA BUNCHY TOP Magee 1927  
*Musa fehi*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Musa* spp.  
 Magee, C. J. P., 1940, 1948
- V. BARLEY STRIPE MOSAIC McKinney 1953; Hagborg 1954  
*Agropyron hybrid*  
 Sill, W. H., Jr., 1956  
*Avena sativa*  
 McKinney, H. H., 1953  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
*Bromus inermis*  
 McKinney, H. H., 1951, 1953  
*Bromus japonicus*  
 Slykhuis, J. T., 1952  
*Bromus secalinus*  
 Slykhuis, J. T., 1952  
*Bromus tectorum*  
 Slykhuis, J. T., 1952  
*Chenopodium album*  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
*Chenopodium amaranticolor*  
 Hollings, M., 1957  
*Digitaria ischaemum*  
 McKinney, H. H., 1951, 1953  
*Digitaria sanguinalis*  
 Slykhuis, J. T., 1952  
*Echinochloa crus-galli*  
 Slykhuis, J. T., 1952  
*Eragrostis ciliaris*  
 Slykhuis, J. T., 1952  
*Hordeum jubatum*  
 Slykhuis, J. T., 1952  
*Hordeum vulgare*  
 Afanasiev, M. M., 1956  
 Eslick, R. F. and M. M. Afanasiev, 1955  
 Fitzgerald, Paul J., Harland Stevens and R. G. Timian, 1957  
 Hagborg, W. A. F., 1954  
 McKinney, H. H., 1951, 1953, 1954, 1956  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
 Sisler, W. W. and R. G. Timian, 1956  
 Slykhuis, J. T., 1952

## VIRUS

- V. BARLEY STRIPE MOSAIC (cont.)  
*Hordeum vulgare*  
 Timian, R. G. and W. W. Sisler, 1955  
 Wadsworth, D. F., 1949  
*Nicotiana tabacum*  
 McKinney, H. H., 1951  
*Oryza sativa*  
 Kahn, Robert P. and Oattie J. Dickerson, 1957  
 McKinney, H. H., 1951  
*Panicum capillare*  
 Slykhuis, J. T., 1952  
*Panicum miliaceum*  
 Slykhuis, J. T., 1952  
*Secale cereale*  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
 Slykhuis, J. T., 1952  
*Setaria italica*  
 Slykhuis, J. T., 1952  
*Setaria verticillata*  
 Slykhuis, J. T., 1952  
*Setaria viridis*  
 Slykhuis, J. T., 1952  
*Triticum aestivum*  
 Fitzgerald, Paul J., Harland Stevens and R. G. Timian, 1957  
 Lal, S. B. and W. H. Sill, Jr., 1957  
 McKinney, H. H., 1951, 1953, 1956  
 McNeal, F. H. and M. M. Afanasiev, 1955, 1956  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
*Triticum durum*  
 Slykhuis, J. T., 1952  
*Triticum vulgare*  
 Slykhuis, J. T., 1952  
*Zea mays*  
 McKinney, H. H., 1951  
 Sill, W. H., Jr., 1956  
 Sill, W. H., Jr. and E. D. Hansing, 1955  
 Slykhuis, J. T., 1952  
*Zea mays* var. *saccharata*  
 McKinney, H. H., 1951, 1953
- V. BARLEY YELLOW DWARF Oswald and Houston 1951  
*Aegilops triuncialis*  
 Oswald, John W. and Byron R. Houston, 1953  
*Agropyron inerme*  
 Bruehl, G. W. and H. V. Toko, 1957  
*Agropyron intermedium*  
 Bruehl, G. W. and H. V. Toko, 1957  
*Agropyron trachycaulum*  
 Oswald, John W. and Byron R. Houston, 1953  
*Andropogon barbinodis*  
 Oswald, John W. and Byron R. Houston, 1953  
*Anthoxanthum odoratum*  
 Oswald, John W. and Byron R. Houston, 1953  
*Aristida oligantha*  
 Oswald, John W. and Byron R. Houston, 1953  
*Avena barbata*  
 Oswald, John W. and Byron R. Houston, 1953  
*Avena fatua*  
 Bruehl, G. W. and H. V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1952, 1953  
*Avena sativa*  
 Allen, Thomas C., Jr., 1956, 1957  
 Allen, Thomas C., Jr. and Byron R. Houston, 1956  
 Bruehl, G. W. and H. V. Toko, 1955, 1957  
 Endo, R. M., 1957  
 Moore, M. B., 1952  
 Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
 Oswald, John W. and T. H. Thung, 1955  
 Takeshita, R. M., 1956  
 Toko, H. V. and G. W. Bruehl, 1957  
 Watson, Marion A. and T. Mulligan, 1957  
 Wilson, V. E. and H. C. Murphy, 1953  
*Avena strigosa*  
 Endo, R. M., 1957  
*Beckmannia syzigachne*  
 Bruehl, G. W. and H. V. Toko, 1957  
*Bouteloua curtipendula*  
 Oswald, John W. and Byron R. Houston, 1953  
*Bromus brizaeformis*  
 Bruehl, G. W. and H. V. Toko, 1957

## VIRUS

## V. BARLEY YELLOW DWARF (cont.)

- Bromus carinatus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus catharticus*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Bromus commutatus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus erectus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus inermis*  
Oswald, John W. and Byron R. Houston, 1953
- Bromus japonicus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus mollis*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Bromus racemosus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus rigidus*  
Allen, Thomas C., Jr. and Byron R. Houston, 1956  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Bromus rubens*  
Oswald, John W. and Byron R. Houston, 1953
- Bromus secalinus*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus* spp.  
Oswald, John W. and Byron R. Houston, 1952
- Bromus sterilis*  
Bruehl, G. W. and H. V. Toko, 1957
- Bromus tectorum*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Bromus tomentellus*  
Bruehl, G. W. and H. V. Toko, 1957
- Chloris gayana*  
Oswald, John W. and Byron R. Houston, 1953
- Cynodon dactylon*  
Oswald, John W. and Byron R. Houston, 1953
- Cynosurus echinatus*  
Oswald, John W. and Byron R. Houston, 1953
- Dactylis glomerata*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Deschampsia caespitosa*  
Bruehl, G. W. and H. V. Toko, 1957
- Deschampsia danthonioides*  
Bruehl, G. W. and H. V. Toko, 1957
- Elymus caput-medusae*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Elymus condensatus*  
Bruehl, G. W. and H. V. Toko, 1957
- Elymus triticoides*  
Oswald, John W. and Byron R. Houston, 1953
- Festuca arundinacea*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Festuca elatior*  
Bruehl, G. W. and H. V. Toko, 1957
- Festuca idahoensis*  
Bruehl, G. W. and H. V. Toko, 1957
- Festuca myuros*  
Oswald, John W. and Byron R. Houston, 1953
- Festuca ovina*  
Bruehl, G. W. and H. V. Toko, 1957
- Festuca reflexa*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Festuca rubra*  
Bruehl, G. W. and H. V. Toko, 1957
- Festuca* spp.  
Oswald, John W. and Byron R. Houston, 1952
- Gastridium ventricosum*  
Oswald, John W. and Byron R. Houston, 1953
- Hordeum brachyantherum*  
Oswald, John W. and Byron R. Houston, 1953
- Hordeum brevisubulatum*  
Bruehl, G. W. and H. V. Toko, 1957
- Hordeum bulbosum*  
Bruehl, G. W. and H. V. Toko, 1957

## VIRUS

## V. BARLEY YELLOW DWARF (cont.)

- Hordeum hystrix*  
Oswald, John W. and Byron R. Houston, 1953
- Hordeum leporinum*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Hordeum* spp.  
Oswald, John W. and Byron R. Houston, 1952
- Hordeum vulgare*  
Allen, Thomas C., Jr., 1956, 1957  
Allen, Thomas C., Jr. and Byron R. Houston, 1956  
Bruehl, G. W. and H. V. Toko, 1955, 1957  
Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
Oswald, John W. and T. H. Thung, 1955  
Takeshita, R. M., 1956  
Toko, H. V. and G. W. Bruehl, 1957  
Watson, Marion A. and T. Mulligan, 1957
- Loelera cristata*  
Bruehl, G. W. and H. V. Toko, 1957
- Lolium multiflorum*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Lolium perenne*  
Bruehl, G. W. and H. V. Toko, 1957  
Watson, Marion A. and T. Mulligan, 1957
- Lolium remotum*  
Bruehl, G. W. and H. V. Toko, 1957
- Lolium temulentum*  
Bruehl, G. W. and H. V. Toko, 1957
- Panicum capillare*  
Oswald, John W. and Byron R. Houston, 1953
- Phalaris arundinacea*  
Bruehl, G. W. and H. V. Toko, 1957
- Phalaris paradoxa*  
Oswald, John W. and Byron R. Houston, 1953
- Phalaris* spp.  
Oswald, John W. and Byron R. Houston, 1952
- Phalaris tuberosa*  
Oswald, John W. and Byron R. Houston, 1953
- Phleum pratense*  
Bruehl, G. W. and H. V. Toko, 1957  
Watson, Marion A. and T. Mulligan, 1957
- Poa ampla*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Poa canbyi*  
Bruehl, G. W. and H. V. Toko, 1957
- Poa pratensis*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Secale cereale*  
Allen, Thomas C., Jr., 1957  
Allen, Thomas C., Jr. and Byron R. Houston, 1956  
Takeshita, R. M., 1956
- Setaria lutescens*  
Bruehl, G. W. and H. V. Toko, 1957
- Sitanion hystrix*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Sitanion jubatum*  
Bruehl, G. W. and H. V. Toko, 1957
- Sorghum vulgare*  
Oswald, John W. and Byron R. Houston, 1953
- Sorghum vulgare* var. *sudanense*  
Oswald, John W. and Byron R. Houston, 1953
- Stipa comata*  
Bruehl, G. W. and H. V. Toko, 1957
- Triticum aestivum*  
Allen, Thomas C., Jr., 1957  
Allen, Thomas C., Jr. and Byron R. Houston, 1956  
Bruehl, G. W. and H. V. Toko, 1955, 1957  
Oswald, John W. and Byron R. Houston, 1951, 1952, 1953  
Takeshita, R. M., 1956  
Toko, H. V. and G. W. Bruehl, 1957
- Zea mays*  
Allen, Thomas C., Jr., 1957

## V. BAYBERRY YELLOWS Raychaudhuri 1953

- Allium cepa*  
Raychaudhuri, S. P., 1953



- VIRUS**  
**V. BAYBERRY YELLOWS (cont.)**  
*Apium graveolens*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Beta vulgaris*  
 Raychaudhuri, S.P., 1953  
*Cuscuta campestris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Cuscuta subinclusa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Daucus carota*  
 Raychaudhuri, S.P., 1953  
*Daucus carota* var. *sativa*  
 Raychaudhuri, S.P., 1952  
*Myrica carolinensis*  
 Raychaudhuri, S.P., 1952, 1953  
*Petunia hybrida* var. *nana compacta* \*  
 Raychaudhuri, S.P., 1953  
*Tagetes signata* var. *pumila*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Vinca minor*  
 Raychaudhuri, S.P., 1952  
*Vinca rosea*  
 Raychaudhuri, S.P., 1953
- V. BEAN COMMON MOSAIC**  
*Lespedeza striata*  
 Pierce, W.H., 1934  
*Melilotus alba*  
 Harrison, Arthur L., 1935  
*Phaseolus aconitifolius*  
 Nelson, Ray, 1932  
*Phaseolus acutifolius* var. *latifolius*  
 Nelson, Ray, 1932  
 Pierce, W.H., 1934  
 Reddick, D. and V.B. Stewart, 1919  
*Phaseolus angularis*  
 Nelson, Ray, 1932  
*Phaseolus aureus*  
 Pierce, W.H., 1934  
*Phaseolus calcaratus*  
 Nelson, Ray, 1932  
 Pierce, W.H., 1934  
*Phaseolus coccineus*  
 Nelson, Ray, 1932  
*Phaseolus limensis*  
 Nelson, Ray, 1932  
*Phaseolus lunatus*  
 Nelson, Ray, 1932  
 Pierce, W.H., 1934  
*Phaseolus lunatus* f. *macrocarpus*  
 Pierce, W.H., 1934  
 Reddick, D. and V.B. Stewart, 1919  
*Phaseolus mungo*  
 Nelson, Ray, 1932  
*Phaseolus radiatus* var. *aurea* \*  
 Matsumoto, T., 1922  
*Phaseolus vulgaris*  
 Ainsworth, G.C., 1940  
 Bridgmon, G.H. and J.C. Walker, 1951  
 Dean, Leslie L. and C.W. Hungerford, 1946, 1954  
 Fajardo, T.G., 1928, 1930  
 Fernow, Karl Hermann, 1925  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Fulton, Robert W., 1941  
 Grogan, Raymond G. and J.C. Walker, 1948  
 Harrison, Arthur L., 1935  
 Jenkins, Wilbert A., 1940  
 Mackie, W.W. and Katherine Esau, 1932  
 Murphy, Donald M., 1940  
 Murphy, Donald M. and W.H. Pierce, 1938  
 Nelson, Ray, 1932  
 Parker, M.C., 1936  
 Pierce, W.H., 1934, 1935, 1937  
 Pierce, W.H. and C.W. Hungerford, 1929  
 Reddick, D. and V.B. Stewart, 1918, 1919  
 Richards, B. Lorin and Walter H. Burkholder, 1943  
 Smith, Francis L. and Wm. B. Hewitt, 1938  
 Snyder, W.C., 1942  
 Stewart, V.B. and Donald Reddick, 1917  
 Thomas, H. Rex and W.J. Zaumeyer, 1953  
 Wade, B.L. and C.F. Andrus, 1941  
 Walker, J.C. and J.P. Jolivet, 1943
- VIRUS**  
**V. BEAN COMMON MOSAIC (cont.)**  
*Phaseolus vulgaris*  
 Yerkes, William D., Jr. and Alfonso Crispin Medina, 1957  
 Zaumeyer, W.J. and H.H. Fisher, 1951  
 Zaumeyer, W.J. and H. Rex Thomas, 1947, 1948  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935  
*Phaseolus vulgaris* var. *humulis* \*  
 Nelson, Ray, 1932  
*Vicia faba*  
 Nelson, Ray, 1932  
 Reddick, D. and V.B. Stewart, 1919  
*Vicia faba* var. *minor*  
 Pierce, W.H., 1934  
*Vicia lathyroides*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Vicia sativa*  
 Pierce, W.H., 1934  
*Vigna sesquipedalis*  
 Nelson, Ray, 1932  
 Snyder, W.C., 1942  
*Vigna sinensis*  
 Snyder, W.C., 1942
- V. BEAN DOUBLE YELLOW MOSAIC** K.M. Smith 1957  
*Phaseolus aureus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Phaseolus limensis*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Phaseolus lunatus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Phaseolus vulgaris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. BEAN LEAF WILT** J. Johnson 1942  
*Lathyrus pusillus*  
 Johnson, James, 1942  
*Phaseolus vulgaris*  
 Johnson, James, 1942
- V. BEAN MONTANA \***  
*Melilotus alba*  
 Afanasiev, M.M. and H.E. Morris, 1946  
*Melilotus officinalis*  
 Afanasiev, M.M. and H.E. Morris, 1946  
*Phaseolus vulgaris*  
 Afanasiev, M.M. and H.E. Morris, 1946
- V. BEAN MOSAIC 3 \***  
*Phaseolus vulgaris*  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935
- V. BEAN POD MOTTLE** Zaumeyer and Thomas 1948  
*Glycine max*  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*Phaseolus lunatus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*Phaseolus lunatus* x *P. lunatus* f. *macrocarpus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*Phaseolus vulgaris*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
 Zaumeyer, W.J. and H. Rex Thomas, 1948, 1950
- V. BEAN SOUTHERN MOSAIC**  
*Glycine max*  
 Zaumeyer, W.J. and L.L. Harter, 1943  
 Zaumeyer, W.J. and H. Rex Thomas, 1948  
*Phaseolus lunatus*  
 Zaumeyer, W.J. and L.L. Harter, 1943  
*Phaseolus lunatus* x *P. lunatus* f. *macrocarpus*  
 Zaumeyer, W.J. and L.L. Harter, 1943  
*Phaseolus vulgaris*  
 Bain, Douglas C., 1950  
 Bridgmon, G.H., 1951  
 Bridgmon, G.H. and J.C. Walker, 1951  
 Mitchell, J.W., W.H. Preston, Jr. and J.M. Beal, 1956  
 Price, W.C. and Betty R. Holt, 1948  
 Zaumeyer, W.J. and H.H. Fisher, 1951  
 Zaumeyer, W.J. and L.L. Harter, 1942, 1943, 1944  
 Zaumeyer, W.J. and H. Rex Thomas, 1948, 1950

## VIRUS

- V. BEAN YELLOW MOSAIC Pierce 1934  
*Cajanus indicus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Canavalia ensiformis*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
*Cassia tora*  
 Corbett, M. K., 1957  
*Chenopodium amaranticolor*  
 Hollings, M., 1957  
*Cicer arietinum*  
 Snyder, William C., A. O. Paulus and A. H. Gold, 1956  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Crotalaria retusa*  
 Zaumeyer, W. J., 1940  
*Crotalaria spectabilis*  
 Corbett, M. K., 1957  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
 Zaumeyer, W. J., 1940  
*Crotalaria striata*  
 Zaumeyer, W. J., 1940  
*Cyamopsis tetragonoloba*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
*Dolichos biflorus*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Freesia* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Gladiolus gandavensis*  
 McWhorter, Frank P., 1949  
*Gladiolus hortulanus*  
 Berkeley, G. H., 1953  
 Bridgmon, G. H., 1951  
 Bridgmon, G. H. and J. C. Walker, 1952  
 Brierley, Philip, 1952  
 Brierley, Philip and Floyd F. Smith, 1948  
 Dodsall, Louise, 1928  
*Gladiolus* spp.  
 Smith, Floyd F. and Philip Brierley, 1944  
*Glycine max*  
 Afanasiev, M. M. and H. E. Morris, 1952  
 Conover, Robert A., 1948  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1950, 1954  
 Pierce, W. H., 1934, 1935  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
*Lathyrus hirsutus*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
*Lathyrus odoratus*  
 Ainsworth, G. C., 1940  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Zaumeyer, W. J. and B. L. Wade, 1933, 1935  
*Lens esculenta*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Lespedeza striata*  
 Pierce, W. H., 1934  
*Lupinus albus*  
 Pierce, W. H., 1934  
 Zaumeyer, W. J., 1940  
*Lupinus angustifolius*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Zaumeyer, W. J., 1940  
*Lupinus densiflorus*  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
*Lycopersicon esculentum*  
 Osborn, H. T., 1938  
*Medicago arabica*  
 Elliott, J. A., 1921  
*Medicago lupulina*  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
*Medicago orbicularis*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
*Medicago sativa*  
 McWhorter, Frank P., 1949  
 Zaumeyer, W. J., 1940  
*Melilotus alba*  
 Afanasiev, M. M. and H. E. Morris, 1952  
 Conover, Robert A., 1948  
 Diachun, Stephen and Lawrence Henson, 1956  
 Elliott, J. A., 1921  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950

## VIRUS

- V. BEAN YELLOW MOSAIC (cont.)  
*Melilotus alba*  
 Hagedorn, D. J. and J. C. Walker, 1954  
 Hanson, E. W. and D. J. Hagedorn, 1954, 1956  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
 McWhorter, Frank P., 1949  
 Pierce, W. H., 1934, 1937  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1940, 1952  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Melilotus indica*  
 Hagedorn, D. J. and E. W. Hanson, 1953  
*Melilotus officinalis*  
 Afanasiev, M. M. and H. E. Morris, 1952  
 Baggett, James R., 1957  
 Conover, Robert A., 1948  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and E. W. Hanson, 1957  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Pierce, W. H., 1935  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Melilotus* spp.  
 McLarty, H. R., 1920  
*Nicotiana rustica*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1952  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
*Nicotiana sylvestris*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
*Nicotiana tabacum*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1952  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
*Phaseolus aconitifolius*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
*Phaseolus acutifolius* var. *latifolius*  
 Pierce, W. H., 1934  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
*Phaseolus angularis*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus aureus*  
 Osborn, H. T., 1938  
 Pierce, W. H., 1934  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus limensis*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Phaseolus lunatus*  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
*Phaseolus vulgaris*  
 Afanasiev, M. M. and H. E. Morris, 1952  
 Ainsworth, G. C., 1940  
 Baggett, James R., 1956, 1957  
 Berkeley, G. H., 1953  
 Bridgmon, G. H. and J. C. Walker, 1952  
 Brierley, Philip, 1952  
 Conover, Robert A., 1948  
 Grogan, Ray G., 1948  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1949, 1950, 1954  
 Harrison, Arthur L., 1935  
 Houston, Byron R. and John W. Oswald, 1953  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
 Johnson, James, 1942  
 McWhorter, Frank P., 1949  
 Murphy, Donald M., 1940  
 Osborn, H. T., 1938  
 Pierce, W. H., 1934, 1935, 1937  
 Thomas, H. R., 1953  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Yerkes, William D., Jr. and Alfonso Crispin Medina, 1957  
 Zaumeyer, W. J., 1933, 1940, 1952  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
 Zaumeyer, W. J. and B. L. Wade, 1933, 1935, 1936  
*Phaseolus vulgaris* x *P. coccineus*  
 Baggett, James R., 1956  
*Pisum sativum*  
 Ainsworth, G. C., 1940  
 Baggett, James R., 1957  
 Berkeley, G. H., 1953

## VIRUS

## V. BEAN YELLOW MOSAIC (cont.)

- Pisum sativum*  
 Conover, Robert A., 1948  
 Corbett, M. K., 1957  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J., 1951, 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1950, 1954  
 Hanson, E. W. and D. J. Hagedorn, 1954  
 Hungerford, C. W. and Irvin G. Hillyer, 1954  
 Johnson, James, 1942  
 McWhorter, Frank P., 1949  
 Osborn, H. T., 1935  
 Oshima, Nagayoshi and M. F. Kernkamp, 1957  
 Pierce, W. H., 1935, 1937  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1940  
 Zaumeyer, W. J. and B. L. Wade, 1933, 1935, 1936
- Pisum sativum* var. *arvense*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Pisum sativum* var. *saccharatum*  
 Pierce, W. H., 1935
- Sesbania macrocarpa*  
 Johnson, James, 1942
- Trifolium hybridum*  
 Baggett, James R., 1957  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and E. W. Hanson, 1953, 1957  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Hanson, E. W. and D. J. Hagedorn, 1954, 1956  
 Hungerford, C. W. and Irvin G. Hillyer, 1954
- Trifolium incarnatum*  
 Baggett, James R., 1957  
 Conover, Robert A., 1948  
 Diachun, Stephen and Lawrence Henson, 1956  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J., 1948, 1952  
 Hagedorn, D. J. and E. W. Hanson, 1953, 1957  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Hanson, E. W. and D. J. Hagedorn, 1954, 1956  
 Pierce, W. H., 1934  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1940
- Trifolium pratense*  
 Diachun, Stephen and Lawrence Henson, 1953, 1956, 1957  
 Elliott, J. A., 1921  
 Hagedorn, D. J., 1948, 1952  
 Hagedorn, D. J. and E. W. Hanson, 1953, 1957  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Hanson, E. W. and D. J. Hagedorn, 1952, 1954, 1956  
 McWhorter, Frank P., 1949  
 Oshima, Nagayoshi and M. F. Kernkamp, 1957  
 Pierce, W. H., 1935, 1937  
 Zaumeyer, W. J., 1940  
 Zaumeyer, W. J. and B. L. Wade, 1935
- Trifolium repens*  
 Ainsworth, G. C., 1940  
 Houston, Byron R. and John W. Oswald, 1953  
 Kreitlow, K. W., O. J. Hunt and H. L. Wilkins, 1957
- Trifolium repens* f. *giganteum* \*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953
- Trifolium subterraneum*  
 Hutton, E. M. and J. W. Peak, 1954  
 McWhorter, Frank P. and John R. Hardison, 1949
- Trigonella foenum-graecum*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J., 1948, 1952  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Vicia americana*  
 Zaumeyer, W. J. and B. L. Wade, 1935
- Vicia atropurpurea*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Vicia faba*  
 Afanasiev, M. M. and H. E. Morris, 1952  
 Ainsworth, G. C., 1940  
 Baggett, James R., 1957  
 Brierley, Philip and Floyd F. Smith, 1948  
 Conover, Robert A., 1948  
 Elliott, J. A., 1921  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Houston, Byron R. and John W. Oswald, 1953

## VIRUS

## V. BEAN YELLOW MOSAIC (cont.)

- Vicia faba*  
 McWhorter, Frank P., 1949  
 McWhorter, Frank P. and John R. Hardison, 1949  
 Osborn, H. T., 1938  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J., 1940, 1952  
 Zaumeyer, W. J. and H. H. Fisher, 1953  
 Zaumeyer, W. J. and B. L. Wade, 1935, 1936
- Vicia faba* var. *major* \*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Vicia faba* var. *minor* \*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Pierce, W. H., 1934, 1935
- Vicia grandiflora*  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Vicia lathyroides*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Vicia monantha*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954
- Vicia sativa*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Pierce, W. H., 1934
- Vicia villosa*  
 Grogan, Raymond G. and J. C. Walker, 1948  
 Hagedorn, D. J. and J. C. Walker, 1950, 1954  
 Hungerford, C. W. and Irvin G. Hillyer, 1954
- Vigna sesquipedalis*  
 Thomas, H. Rex and W. J. Zaumeyer, 1953  
 Zaumeyer, W. J. and H. H. Fisher, 1953
- Vigna sinensis*  
 Osborn, H. T., 1938  
 Zaumeyer, W. J. and H. H. Fisher, 1953
- V. BEAN YELLOW STIPPLE Zaumeyer and Thomas  
*Cyamopsis tetragonoloba* 1950  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Glycine max*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Phaseolus acutifolius* var. *latifolius*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Phaseolus calcaratus*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Phaseolus coccineus*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Phaseolus mungo*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Phaseolus vulgaris*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Pisum sativum*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- Vigna sinensis*  
 Zaumeyer, W. J. and H. Rex Thomas, 1950
- V. BEET CURLY TOP ((Ball 1909; Boucquet and Hartung 1915)) Carsner 1919; Severin 1919  
*Acanthospermum hispidum*  
 Bennett, C. W. and A. S. Costa, 1949
- Amaranthus aurora* or *auroro* \*  
 Freitag, Julius H. and Henry H. P. Severin, 1936
- Amaranthus caudatus*  
 Freitag, Julius H. and Henry H. P. Severin, 1936
- Amaranthus deflexus*  
 Severin, Henry H. P., 1934
- Amaranthus gangeticus*  
 Freitag, Julius H. and Henry H. P. Severin, 1936
- Amaranthus graecizans*  
 Carsner, E., 1919  
 Severin, Henry H. P., 1934
- Amaranthus retroflexus*  
 Severin, Henry H. P., 1934
- Anagallis arvensis*  
 Severin, Henry H. P., 1934
- Anchusa azurea*  
 Freitag, Julius H. and Henry H. P. Severin, 1936
- Anemone coronaria*  
 Freitag, Julius H. and Henry H. P. Severin, 1936
- Anethum graveolens*  
 Severin, Henry H. P., 1929
- Anthemis cotula*  
 Severin, Henry H. P., 1934

## VIRUS

## V. BEET CURLY TOP (cont.)

- Anthriscus cerefolium*  
Severin, Henry H. P., 1929
- Apium graveolens* var. *dulce*  
Severin, H. H. P., 1928, 1929
- Arctotis stoechadifolia*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Armoracia rusticana*  
Severin, Henry H. P., 1929
- Atriplex argentea* subsp. *expansa*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928  
Severin, Henry H. P. and Byron R. Houston, 1945
- Atriplex argentea* var. *hillmanii*  
Severin, Henry H. P., 1934
- Atriplex bracteosa*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928  
Severin, Henry H. P. and Byron R. Houston, 1945
- Atriplex cordulata*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex coronata*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex fruticulosa*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex hortensis* var. *rubra* \*  
Severin, Henry H. P., 1934
- Atriplex lentiformis*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex parishii*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex patula* var. *hastata*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex phyllostegia*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex rosea*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex semibaccata*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Atriplex tularensis*  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Baeria uliginosa*  
Severin, Henry H. P., 1934
- Barbarea vulgaris*  
Severin, Henry H. P., 1929
- Bellis perennis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Beta macrocarpa*  
Bennett, C. W. and Aziz Tanrisever, 1957  
Costa, A. S., 1952  
Giddings, N. J., 1944
- Beta maritima*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Beta patellaris*  
Costa, A. S., 1952  
Giddings, N. J., 1944
- Beta patula*  
Costa, A. S., 1952
- Beta trigyna*  
Giddings, N. J., 1944

## VIRUS

## V. BEET CURLY TOP (cont.)

- Beta vulgaris*  
Bennett, C. W., 1934, 1937, 1944, 1951, 1955  
Bennett, C. W., Eubanks Carsner, G. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Carsner, E., 1919, 1926, 1938  
Carsner, Eubanks and C. F. Stahl, 1924  
Costa, A. S., 1952  
Esau, Katherine, 1930  
Fawcett, G. L., 1927  
Giddings, N. J., 1938, 1940, 1941, 1944, 1946, 1952, 1954  
Johnson, Folke, 1941  
Jones, Leon K., 1931  
Lackey, C. F., 1932, 1937, 1941, 1942, 1951  
Menzies, J. D. and N. J. Giddings, 1953  
Mumford, Edward Philpott, 1930  
Owen, F. V., Albert M. Murphy and Bion Tolman, 1942  
Severin, Henry H. P. and Charles F. Henderson, 1928  
Severin, Henry H. P. and Byron R. Houston, 1945  
Smith, R. E. and P. A. Boncquet, 1915  
Thornberry, H. H. and R. M. Takeshita, 1954
- Beta vulgaris* var. *cicla*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Beta vulgaris* var. *macrorrhiza* \*  
Bennett, C. W., Eubanks Carsner, G. H. Coons and E. W. Brandes, 1946  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Borago officinalis*  
Severin, Henry H. P., 1929
- Brachycome iberidifolia*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Brassica hirta* (*Brassica alba*)  
Severin, Henry H. P., 1929
- Brassica kaber* (*Brassica arvensis*)  
Severin, Henry H. P., 1929, 1934
- Brassica oleracea* var. *acephala*  
Severin, Henry H. P., 1929
- Brassica oleracea* var. *botrytis*  
Severin, Henry H. P., 1929
- Brassica oleracea* var. *capitata*  
Severin, Henry H. P., 1929
- Brassica pekinensis*  
Costa, A. S., 1952
- Brassica rapa*  
Severin, Henry H. P., 1929
- Browallia speciosa*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Calandrinia grandiflora*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Calandrinia menziesii*  
Carsner, Eubanks and C. F. Stahl, 1924
- Calendula officinalis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Capsella bursa-pastoris*  
Severin, Henry H. P., 1929, 1934
- Capsicum frutescens* (*Capsicum annum*)  
Costa, A. S., 1952  
Kendrick, J. B., Jr., L. D. Anderson and R. C. Dickson, 1951  
Severin, Henry H. P., 1929
- Capsicum frutescens* var. *grossum*  
Costa, A. S., 1952
- Cardiospermum halicacabum*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Celosia argentea*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Celosia argentea* var. *cristata*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Centaurea americana*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Centaurea cyanus*  
Freitag, Julius H. and Henry H. P. Severin, 1936

## VIRUS

## V. BEET CURLY TOP (cont.)

- Centaurea moschata*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Chenopodium album*  
Bennett, C.W. and Aziz Tanrisever, 1957  
Carsner, E., 1919  
Lackey, C.F., 1929  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Chenopodium album* var. *viride*  
Lackey, C.F., 1929
- Chenopodium amaranticolor*  
Bennett, C.W. and Aziz Tanrisever, 1957
- Chenopodium ambrosioides*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Chenopodium californicum*  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Chenopodium leptophyllum*  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Chenopodium murale*  
Bennett, C.W. and Aziz Tanrisever, 1957  
Carsner, E., 1925  
Carsner, E. and C.F. Stahl, 1924  
Giddings, N.J., 1944  
Lackey, C.F., 1932, 1937  
Severin, Henry H.P., 1934  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Chrysanthemum coronarium*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Chrysanthemum frutescens*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Chrysanthemum parthenium*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cicer arietinum*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Citrullus vulgaris*  
Lackey, C.F., 1929  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Citrullus vulgaris* var. *citroides*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Clarkia elegans*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cleome spinosa*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cobaea scandens*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Coreopsis tinctoria*  
Freitag, Julius H. and Henry H.P. Severin, 1936  
Severin, Henry H.P. and Julius H. Freitag, 1934
- Coriandrum sativum*  
Severin, Henry H.P., 1929
- Cosmos bipinnatus*  
Freitag, Julius H. and Henry H.P. Severin, 1936  
Severin, Henry H.P. and Julius H. Freitag, 1934
- Cosmos hybridus*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cucumis anguria*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucumis melo*  
Giddings, N.J., 1948
- Cucumis melo* var. *cantalupensis*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucumis melo* var. *inodorus*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucumis melo* var. *reticulatus*  
Severin, Henry H.P. and Charles F. Henderson, 1928

## VIRUS

## V. BEET CURLY TOP (cont.)

- Cucumis sativus*  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucurbita maxima*  
Bennett, C.W., 1934  
Dana, B.F., 1938  
Lackey, C.F., 1929  
McKay, M.B. and T.P. Dykstra, 1927  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucurbita moschata*  
Dana, B.F., 1941  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucurbita pepo*  
Dana, B.F., 1941  
Severin, Henry H.P. and Charles F. Henderson, 1928
- Cucurbita pepo* var. *ovifera*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cymbalaria muralis*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Cynoglossum amabile*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Datura stramonium*  
Adsuar, J., 1955  
Bennett, C.W. and A.S. Costa, 1949  
Bennett, C.W. and Aziz Tanrisever, 1957  
Costa, A.S., 1952  
Fulton, Robert W., 1955  
Giddings, N.J., 1944, 1954  
Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951  
Severin, Henry H.P., 1929, 1934
- Delphinium nudicaule*  
Freitag, Julius H. and Henry H.P. Severin, 1936  
Severin, Henry H.P., 1942
- Delphinium* spp.  
Severin, Henry H.P., 1942
- Dianthus barbatus*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Dianthus caryophyllus*  
Freitag, Julius H. and Henry H.P. Severin, 1936  
Severin, Henry H.P. and Julius H. Freitag, 1934
- Dianthus chinensis*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Dianthus chinensis* var. *heddewigii*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Dianthus plumarius*  
Freitag, Julius H. and Henry H.P. Severin, 1936  
Severin, Henry H.P., 1939  
Severin, Henry H.P. and Julius H. Freitag, 1934
- Digitalis ambigua*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Dimorphotheca aurantiaca*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Erodium botrys*  
Severin, Henry H.P., 1934
- Erodium cicutarium*  
Carsner, E., 1919  
Carsner, Eubanks and C.F. Stahl, 1924  
Giddings, N.J., 1944  
Lackey, C.F., 1937  
Severin, Henry H.P., 1934
- Erodium macrophyllum*  
Severin, Henry H.P., 1934
- Erodium moschatum*  
Carsner, E., 1919  
Severin, Henry H.P., 1934
- Erysimum repandum*  
Giddings, N.J., 1944
- Eschscholtzia californica*  
Giddings, N.J., 1944
- Euphorbia marginata*  
Freitag, Julius H. and Henry H.P. Severin, 1936
- Euphorbia peplus*  
Severin, Henry H.P., 1934
- Euphorbia prunifolia*  
Bennett, C.W. and A.S. Costa, 1949  
Costa, A.S., 1952
- Fagopyrum esculentum*  
Bennett, C.W. and A.S. Costa, 1949

## VIRUS

- V. BEET CURLY TOP (cont.)
- Fagopyrum esculentum*  
Carsner, E., 1919  
Costa, A. S., 1952  
Severin, Henry H. P., 1929
- Foeniculum vulgare* var. *dulce*  
Severin, Henry H. P., 1929
- Gnaphalium chilense*  
Severin, Henry H. P., 1934
- Gomphrena globosa*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Gypsophila paniculata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Helianthus debilis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Helianthus decapetalus* var. *multiflorus*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Helichrysum bracteatum*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Heliotropium peruvianum*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Helipterum roseum*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Hesperis matronalis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Hibiscus esculentus*  
Severin, Henry H. P., 1929
- Humulus japonicus*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Iberis umbellata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Ipomoea setosa*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Kochia scoparia* var. *trichophylla*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Lactuca sativa*  
Giddings, N. J., 1944
- Lagenaria siceraria* (*Lagenaria leucantha*)  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lathyrus odoratus*  
Giddings, N. J., 1944
- Lavatera trimestris*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lepidium lasiocarpum*  
Giddings, N. J., 1944
- Lepidium nitidum*  
Giddings, N. J., 1938, 1944  
Lackey, C. F., 1937  
Severin, Henry H. P., 1934
- Limonium sinuatum*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Linum flavum*  
Giddings, N. J., 1947, 1948
- Linum grandiflorum* var. *rubrum* \*  
Giddings, N. J., 1947, 1948
- Linum lewisii*  
Bennett, C. W. and A. S. Costa, 1949  
Giddings, N. J., 1947, 1948
- Linum perenne*  
Giddings, N. J., 1947, 1948
- Linum usitatissimum*  
Atkins, I. M., M. C. Futrell and O. G. Merkle, 1957  
Bennett, C. W. and A. S. Costa, 1949  
Giddings, N. J., 1948  
Severin, Henry H. P., 1929  
Severin, Henry H. P. and Byron R. Houston, 1945
- Lobelia cardinalis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lobelia erinus* var. *speciosa* \*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lotus americanus*  
Severin, Henry H. P., 1934
- Lotus strigosus*  
Severin, Henry H. P., 1934
- Luffa aegyptiaca* (*Luffa cylindrica*)  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lunaria annua*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lychnis chalcedonica*  
Freitag, Julius H. and Henry H. P. Severin, 1936

## VIRUS

- V. BEET CURLY TOP (cont.)
- Lychnis haageana*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Lycopersicon esculentum*  
Adsuar, J., 1955  
Bennett, C. W., 1944, 1951  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Carsner, Eubanks and C. F. Stahl, 1924  
Costa, A. S., 1952  
Fulton, Robert W., 1955  
Giddings, N. J., 1938, 1944, 1952, 1954  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951  
Lackey, C. F., 1929  
Lesley, J. W., 1931  
Lesley, J. W. and J. M. Wallace, 1938  
McKay, M. B. and T. P. Dykstra, 1927  
Menzies, J. D. and N. J. Giddings, 1952, 1953  
Severin, Henry H. P., 1928  
Shapovalov, M., 1927, 1931  
Virgin, Walter J., 1940  
Wallace, J. M. and J. W. Lesley, 1944  
Watson, R. D. and J. E. Kraus, 1949
- Lycopersicon hirsutum*  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Lycopersicon pimpinellifolium*  
Costa, A. S., 1952  
Lesley, J. W. and J. M. Wallace, 1938
- Malcomia maritima*  
Giddings, N. J., 1944
- Malva parviflora*  
Bennett, C. W. and Aziz Tanrisever, 1957  
Carsner, E., 1919  
Severin, Henry H. P., 1929, 1934
- Malva rotundifolia*  
Severin, Henry H. P., 1929, 1934
- Matricaria inodora*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Matthiola incana*  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Matthiola incana* var. *annua*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Medicago hispida*  
Carsner, E., 1919  
Giddings, N. J., 1944  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Medicago sativa*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Melilotus alba*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Melilotus indica*  
Giddings, N. J., 1944  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Microseris douglasii*  
Severin, Henry H. P., 1934
- Mimulus luteus*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Mirabilis jalapa*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Modiola caroliniana*  
Severin, Henry H. P., 1934, 1939
- Monolepsis nuttalliana*  
Severin, Henry H. P., 1934
- Myosotis scorpioides*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Nemesia strumosa*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Nemophila maculata*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Giddings, N. J., 1944
- Nicotiana alata* var. *grandiflora*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Nicotiana glauca*  
Bennett, C. W., 1934, 1937

## VIRUS

## V. BEET CURLY TOP (cont.)

- Nicotiana glauca*  
Bennett, C. W. and Aziz Tanrisever, 1957  
Costa, A. S., 1952  
Giddings, N. J., 1944  
Severin, Henry H. P., 1934, 1939
- Nicotiana glutinosa*  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Costa, A. S., 1952  
Fulton, Robert W., 1955  
Giddings, N. J., 1944, 1947, 1954
- Nicotiana rustica*  
Fulton, Robert W., 1955  
Lackey, C. F., 1929  
Severin, Henry H. P., 1929
- Nicotiana tabacum*  
Bennett, C. W., 1934, 1937, 1944, 1951  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Costa, A. S., 1952  
Fulton, Robert W., 1955  
Giddings, N. J., 1938, 1944, 1947, 1954  
Lackey, C. F., 1941  
Price, W. C., 1943  
Severin, Henry H. P., 1929
- Nigella damascena*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Nitrophila occidentalis*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Oxalis corniculata*  
Severin, Henry H. P., 1934
- Oxalis corniculata* var. *atropurpurea*  
Severin, Henry H. P., 1934
- Oxalis* spp.  
Bennett, C. W. and A. S. Costa, 1949
- Oxalis stricta*  
Starrett, Ruth C., 1929
- Papaver nudicaule*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Papaver orientale*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Pelargonium hortorum* (X P. zonale)  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P., 1939  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Petroselinum hortense*  
Severin, Henry H. P., 1929
- Petunia hybrida*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and Aziz Tanrisever, 1957  
Costa, A. S., 1952  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Fulton, Robert W., 1955  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Phacelia ramosissima*  
Severin, Henry H. P., 1934, 1939
- Phaseolus lunatus*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Phaseolus vulgaris*  
Bennett, C. W., 1934  
Carsner, E., 1925, 1926  
Dana, B. F., 1940  
Dean, Leslie L. and C. W. Hungerford, 1954  
Giddings, N. J., 1938, 1944  
Lackey, C. F., 1942  
Mackie, W. W. and Katherine Esau, 1932  
Murphy, Donald M., 1940  
Pierce, W. H., 1937  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Phlox drummondii*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Phyllanthus corcovadensis*  
Bennett, C. W. and A. S. Costa, 1949
- Physalis* spp.  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946
- Physalis wrightii*  
Severin, Henry H. P., 1929, 1934

## VIRUS

## V. BEET CURLY TOP (cont.)

- Plantago erecta*  
Giddings, N. J., 1938, 1944  
Severin, Henry H. P., 1934
- Plantago major*  
Giddings, N. J., 1944  
Severin, Henry H. P., 1934
- Polygonum amphibian* var. *hartwrightii*  
Severin, Henry H. P., 1929, 1934
- Polygonum aviculare*  
Carsner, E., 1919  
Severin, Henry H. P., 1929, 1934
- Polygonum lapathifolium*  
Severin, Henry H. P., 1929, 1934
- Polygonum mhuellergii*  
Severin, Henry H. P., 1929, 1934
- Polygonum persicaria*  
Severin, Henry H. P., 1929, 1934
- Portulaca grandiflora*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Portulaca oleracea*  
Severin, Henry H. P., 1934
- Primula elatior*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Primula obconica*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Primula saxatilis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Primula veris*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Quamoclit lobata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Raphanus sativus*  
Severin, Henry H. P., 1929, 1934
- Reseda odorata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Rheum rhaponticum*  
Severin, Henry H. P., 1929
- Rumex crispus*  
Carsner, E., 1925  
Severin, Henry H. P., 1929, 1934
- Rumex scutatus*  
Severin, Henry H. P., 1929
- Salpiglossis sinuata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Salsola kali* var. *tenuifolia*  
Carsner, E., 1919  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Charles F. Henderson, 1928  
Severin, Henry H. P. and Byron R. Houston, 1945
- Salvia splendens*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Samolus floribundus*  
Costa, A. S., 1952
- Samolus parviflorus*  
Bennett, C. W., 1952, 1955  
Giddings, N. J., 1944
- Scabiosa atropurpurea*  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Schizanthus wisetonensis*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Senecio vulgaris*  
Severin, Henry H. P., 1934
- Silene pendula*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Solanum andigenum* \* or *Solanum tuberosum*  
Watson, R. D. and T. E. Randall, 1951
- Solanum antipoviczii*  
Watson, R. D. and T. E. Randall, 1951
- Solanum antipoviczii* or *Solanum neo-antipoviczii*  
Watson, R. D. and T. E. Randall, 1951
- Solanum demissum*  
Watson, R. D. and T. E. Randall, 1951
- Solanum douglasii*  
Severin, Henry H. P., 1934
- Solanum nigrum*  
Costa, A. S., 1952
- Solanum nigrum* var. *douglasii* \*  
Severin, Henry H. P., 1929
- Solanum polyadenium*  
Watson, R. D. and T. E. Randall, 1951

## VIRUS

## V. BEET CURLY TOP (cont.)

- Solanum simplicifolium*  
Watson, R. D. and T. E. Randall, 1951
- Solanum* spp.  
Watson, R. D. and T. E. Randall, 1951
- Solanum tuberosum*  
Giddings, N. J., 1944, 1947, 1952, 1953, 1954  
Jones, Leon K., C. L. Vincent and Earl F. Burk, 1940  
Menzies, J. D. and N. J. Giddings, 1952, 1953  
Milbrath, J. A., 1946  
Severin, Henry H. P., 1929
- Sonchus asper*  
Severin, Henry H. P., 1934
- Sonchus oleraceus*  
Severin, Henry H. P., 1934
- Spinacia oleracea*  
Carsner, E., 1919  
Costa, A. S., 1952  
Giddings, N. J., 1944  
Lackey, C. F., 1929  
Severin, H. H. P., 1928  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Stellaria media*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Carsner, E., 1919  
Carsner, Eubanks and C. F. Stahl, 1924  
Costa, A. S., 1952  
Lackey, C. F., 1932, 1937  
Severin, Henry H. P., 1934
- Suaeda moquini*  
Carsner, E., 1925  
Severin, Henry H. P., 1939
- Tagetes erecta*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Tagetes patula*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Thelypodium lasiophyllum*  
Severin, Henry H. P., 1934
- Thunbergia alata*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Trachymene caerulea*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Trichosanthes anguina*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Trifolium hybridum*  
Giddings, N. J., 1944  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Trifolium incarnatum*  
Giddings, N. J., 1944  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Trifolium pratense*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Trifolium pratense* var. *perenne*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Trifolium repens*  
Giddings, N. J., 1944  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Tropaeolum majus*  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Tropaeolum peregrinum*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Urtica urens*  
Carsner, E., 1919  
Severin, Henry H. P., 1934
- Valerianella olitoria*  
Severin, Henry H. P., 1929
- Vicia atropurpurea*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Vicia faba*  
Severin, Henry H. P. and Charles F. Henderson, 1928

## VIRUS

## V. BEET CURLY TOP (cont.)

- Vicia sativa*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Vicia villosa*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Vigna sinensis*  
Severin, Henry H. P. and Charles F. Henderson, 1928
- Vinca rosea*  
Freitag, Julius H. and Henry H. P. Severin, 1936
- Viola cornuta*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Viola tricolor*  
Dana, B. F. and F. P. McWhorter, 1935
- Viola tricolor* var. *hortensis*  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Xanthium spinosum*  
Severin, Henry H. P., 1934
- Zinnia elegans*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and A. S. Costa, 1949  
Bennett, C. W. and Aziz Tanrisever, 1957  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P., 1934  
Severin, Henry H. P. and Julius H. Freitag, 1934
- Zinnia haageana*  
Freitag, Julius H. and Henry H. P. Severin, 1936  
Severin, Henry H. P., 1934
- V. BEET LEAF CURL ((Wille 1928))
- Ambrosia artemisiifolia*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Beta vulgaris*  
Bonquet, P. A., 1923  
Coons, G. H., J. E. Kotila and D. Stewart, 1937  
Hildebrand, A. A. and L. W. Koch, 1942  
Severin, H. H. P., 1924
- Chenopodium album*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Phaseolus vulgaris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Spinacia oleracea*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. BEET MOSAIC Robbins 1921; Hoggan 1933
- Amaranthus caudatus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Amaranthus retroflexus*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947
- Aster amellus*  
Pound, Glenn S., 1947
- Atriplex bracteosa*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Atriplex hortensis*  
Pound, Glenn S., 1947
- Atriplex patula* var. *hastata*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Atriplex rosea*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Beta maritima*  
Severin, Henry H. P. and Roger M. Drake, 1948
- Beta patellaris*  
Bennett, C. W., 1949
- Beta vulgaris*  
Bawden, F. C., Brenda M. G. Hamlyn and Marion A. Watson, 1954  
Bennett, C. W., 1944  
Doncaster, J. P. and B. Kassanis, 1946  
Hale, J. B., M. A. Watson and R. Hull, 1946  
Hoggan, I. A., 1933  
Jones, Leon K., 1931  
McLean, D. M., 1952  
Pound, Glenn S., 1947  
Robbins, W. W., 1921  
Severin, Henry H. P. and Roger M. Drake, 1948  
Sylvester, E. S., 1947, 1949, 1950, 1952  
Watson, Marion A., R. Hull, J. W. Blencowe and Brenda M. G. Hamlyn, 1951



## VIRUS

- V. BEET MOSAIC (cont.)  
*Beta vulgaris* var. *cicla*  
 McLean, D. M., 1952  
 Pound, Glenn S., 1947  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Beta vulgaris* var. *macrorhiza* \*  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Browallia speciosa*  
 Bennett, C. W., 1949  
*Capsella bursa-pastoris*  
 Pound, Glenn S., 1947  
*Chenopodium album*  
 Pound, Glenn S., 1947  
 Severin, Henry H. P. and Roger M. Drake, 1947  
*Chenopodium amaranticolor*  
 Hollings, M., 1957  
*Chenopodium murale*  
 Severin, Henry H. P. and Roger M. Drake, 1947  
*Iodanthus pinnatifidus*  
 Pound, Glenn S., 1947  
*Kochia scoparia* var. *trichophylla*  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Melilotus indica*  
 Bennett, C. W., 1949  
*Nicotiana clevelandi*  
 Bennett, C. W., 1949  
*Nicotiana multivalvis*  
 Bennett, C. W., 1949  
*Nicotiana quadrivalvis*  
 Bennett, C. W., 1949  
*Nicotiana tabacum*  
 Hoggan, Isme A., 1934  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Phacelia campanularia*  
 Bennett, C. W., 1949  
*Pisum sativum*  
 Bennett, C. W., 1949  
*Salsola kali* var. *tenuifolia*  
 Severin, Henry H. P. and Roger M. Drake, 1947  
*Samolus parviflorus*  
 Bennett, C. W., 1949  
*Sonchus arvensis*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Spinacia oleracea*  
 Hoggan, I. A., 1933  
 McLean, D. M., 1952  
 Pound, Glenn S., 1947  
 Severin, Henry H. P., 1948  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Stellaria media*  
 Pound, Glenn S., 1947  
*Tetragonia expansa*  
 Pound, Glenn S., 1947  
 Severin, Henry H. P. and Roger M. Drake, 1948  
*Trifolium incarnatum*  
 Bennett, C. W., 1949  
*Verbena hybrida*  
 Pound, Glenn S., 1947  
*Viola tricolor* var. *hortensis*  
 Pound, Glenn S., 1947  
*Zinnia elegans*  
 McLean, D. M., 1952  
 Pound, Glenn S., 1947
- V. BEET RING SPOT \*  
*Avena sativa*  
 Harrison, B. D., 1957  
*Beta vulgaris*  
 Harrison, B. D., 1957  
*Brassica campestris* var. *napobrassica*  
 Harrison, B. D., 1957  
*Brassica rapa*  
 Harrison, B. D., 1957  
*Capsella bursa-pastoris*  
 Harrison, B. D., 1957  
*Chenopodium amaranticolor*  
 Harrison, B. D., 1957  
*Cucumis sativus*  
 Harrison, B. D., 1957  
*Datura stramonium*  
 Harrison, B. D., 1957  
*Fragaria vesca*  
 Harrison, B. D., 1957

## VIRUS

- V. BEET RING SPOT \* (cont.)  
*Heracleum sphondylium*  
 Harrison, B. D., 1957  
*Lycopersicon esculentum*  
 Harrison, B. D., 1957  
*Lycopsis arvensis*  
 Harrison, B. D., 1957  
*Myosotis arvensis*  
 Harrison, B. D., 1957  
*Nicotiana glutinosa*  
 Harrison, B. D., 1957  
*Nicotiana rustica*  
 Harrison, B. D., 1957  
*Nicotiana tabacum*  
 Harrison, B. D., 1957  
*Petunia hybrida*  
 Harrison, B. D., 1957  
*Phaseolus vulgaris*  
 Harrison, B. D., 1957  
*Polygonum aviculare*  
 Harrison, B. D., 1957  
*Polygonum convolvulus*  
 Harrison, B. D., 1957  
*Polygonum persicaria*  
 Harrison, B. D., 1957  
*Senecio vulgaris*  
 Harrison, B. D., 1957  
*Solanum tuberosum*  
 Harrison, B. D., 1957  
*Sonchus asper*  
 Harrison, B. D., 1957  
*Stellaria media*  
 Harrison, B. D., 1957  
*Taraxacum officinale*  
 Harrison, B. D., 1957  
*Triticum aestivum*  
 Harrison, B. D., 1957  
*Tussilago farfara*  
 Harrison, B. D., 1957  
*Urtica urens*  
 Harrison, B. D., 1957  
*Veronica persica*  
 Harrison, B. D., 1957
- V. BEET ROSETTE \*  
*Beta vulgaris*  
 Bennett, C. W. and James E. Duffus, 1957
- V. BEET YELLOW NET Sylvester 1948  
*Beta vulgaris*  
 Bennett, C. W., 1944, 1956  
 McLean, D. M., 1952  
 Sylvester, Edward S., 1948, 1949, 1950  
*Beta vulgaris* var. *cicla*  
 McLean, D. M., 1952  
 Sylvester, Edward S., 1948
- V. BEET YELLOW WILT Bennett and Munck 1946  
*Beta vulgaris*  
 Bennett, C. W. and Carlos Munck, 1946  
*Beta vulgaris* var. *cicla*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. BEET YELLOWS Watson 1942; Petherbridge and Stirrup 1935  
*Achyranthes aspera*  
 Roland, G. and J. Tahon, 1961  
*Aizoon* spp.  
 Roland, G. and J. Tahon, 1961  
*Amaranthus albus*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus aureus*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus caracu*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus carneus*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus caudatus*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus cruentus*  
 Roland, G. and J. Tahon, 1961  
*Amaranthus deflexus*  
 Roland, G. and J. Tahon, 1961

## VIRUS

## V. BEET YELLOWS (cont.)

- Amaranthus gangeticus*  
Roland, G. and J. Tahon, 1961
- Amaranthus graecizans*  
Roland, G. and J. Tahon, 1961
- Amaranthus palmeri*  
Roland, G. and J. Tahon, 1961
- Amaranthus paniculatus*  
Roland, G. and J. Tahon, 1961
- Amaranthus patulus*  
Roland, G. and J. Tahon, 1961
- Amaranthus retroflexus*  
Roland, G. and J. Tahon, 1961
- Atriplex bracteosa*  
Roland, G. and J. Tahon, 1961
- Atriplex canescens*  
Roland, G. and J. Tahon, 1961
- Atriplex coronata*  
Roland, G. and J. Tahon, 1961
- Atriplex coulteri*  
Roland, G. and J. Tahon, 1961
- Atriplex elegans*  
Roland, G. and J. Tahon, 1961
- Atriplex expansa*  
Roland, G. and J. Tahon, 1961
- Atriplex hortensis*  
Roland, G. and J. Tahon, 1961
- Atriplex microcarpa*  
Roland, G. and J. Tahon, 1961
- Atriplex nitens*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Atriplex patula*  
Roland, G. and J. Tahon, 1961
- Atriplex patula* var. *hastata*  
Roland, G. and J. Tahon, 1961
- Atriplex rosea*  
Roland, G. and J. Tahon, 1961
- Atriplex semibaccatus*  
Roland, G. and J. Tahon, 1961
- Atriplex siberica*  
Roland, G. and J. Tahon, 1961
- Atriplex spongiosa*  
Roland, G. and J. Tahon, 1961
- Bassia hyssopifolia*  
Roland, G. and J. Tahon, 1961
- Beta atriplicifolia*  
Roland, G. and J. Tahon, 1961
- Beta cicla viridis* \*  
Roland, G. and J. Tahon, 1961
- Beta hybrida*  
Roland, G. and J. Tahon, 1961
- Beta lomatogona*  
Roland, G. and J. Tahon, 1961
- Beta macrocarpa*  
Costa, A.S. and C.W. Bennett, 1955  
Roland, G. and J. Tahon, 1961
- Beta maritima*  
Costa, A.S. and C.W. Bennett, 1955  
Roland, G. and J. Tahon, 1961
- Beta patellaris*  
Roland, G. and J. Tahon, 1961
- Beta patula*  
Roland, G. and J. Tahon, 1961
- Beta procumbens*  
Costa, A.S. and C.W. Bennett, 1955  
Roland, G. and J. Tahon, 1961
- Beta trigyna*  
Roland, G. and J. Tahon, 1961
- Beta vulgaris*  
Bawden, F.C., Brenda M.G. Hamlyn and Marion A. Watson, 1954  
Coons, G.H., 1952  
Costa, A.S. and C.W. Bennett, 1955  
Doncaster, J.P. and B. Kassanis, 1946  
Dufrenoy, Jean, 1940  
Hale, J.B., M.A. Watson and R. Hull, 1946  
Kassanis, B., 1949  
McLean, D.M., 1952, 1953  
Roland, G. and J. Tahon, 1961  
Watson, M.A., 1942  
Watson, Marion A., R. Hull, J.W. Blencowe and Brenda M.G. Hamlyn, 1951

## VIRUS

## V. BEET YELLOWS (cont.)

- Beta vulgaris*  
Watson, Marion A. and G.E. Russell, 1956
- Beta vulgaris* var. *cicla*  
McLean, D.M., 1953
- Beta webbiana*  
Roland, G. and J. Tahon, 1961
- Capsella bursa-pastoris*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Celosia argentea*  
Roland, G. and J. Tahon, 1961
- Celosia argentea* var. *cristata*  
Roland, G. and J. Tahon, 1961
- Cerastium viscosum*  
Roland, G. and J. Tahon, 1961
- Chenopodium album*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Chenopodium amaranticolor*  
Roland, G. and J. Tahon, 1961
- Chenopodium ambrosioides*  
Roland, G. and J. Tahon, 1961
- Chenopodium bonus henricus*  
Roland, G. and J. Tahon, 1961
- Chenopodium botrys*  
Roland, G. and J. Tahon, 1961
- Chenopodium capitatum*  
Roland, G. and J. Tahon, 1961
- Chenopodium ficifolium*  
Roland, G. and J. Tahon, 1961
- Chenopodium foliosum*  
Roland, G. and J. Tahon, 1961
- Chenopodium giganteum*  
Roland, G. and J. Tahon, 1961
- Chenopodium glaucum*  
Roland, G. and J. Tahon, 1961
- Chenopodium hybridum*  
Roland, G. and J. Tahon, 1961
- Chenopodium leptophyllum*  
Roland, G. and J. Tahon, 1961
- Chenopodium murale*  
Costa, A.S. and C.W. Bennett, 1955  
Roland, G. and J. Tahon, 1961
- Chenopodium opulifolium*  
Roland, G. and J. Tahon, 1961
- Chenopodium polyspermum*  
Roland, G. and J. Tahon, 1961
- Chenopodium quinoa*  
Roland, G. and J. Tahon, 1961
- Chenopodium rubrum*  
Roland, G. and J. Tahon, 1961
- Chenopodium* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Chenopodium suecicum*  
Roland, G. and J. Tahon, 1961
- Chenopodium urbicum*  
Roland, G. and J. Tahon, 1961
- Chenopodium vulvaria foetidum* \*  
Roland, G. and J. Tahon, 1961
- Chenopodium watsonii*  
Roland, G. and J. Tahon, 1961
- Claytonia perfoliata*  
Roland, G. and J. Tahon, 1961
- Convolvulus occidentalis*  
Roland, G. and J. Tahon, 1961
- Convolvulus tricolor*  
Roland, G. and J. Tahon, 1961
- Cuscuta californica*  
Roland, G. and J. Tahon, 1961
- Cuscuta campestris*  
Roland, G. and J. Tahon, 1961
- Cuscuta gronovii*  
Roland, G. and J. Tahon, 1961
- Cycloloma atriplicifolium*  
Roland, G. and J. Tahon, 1961
- Dianthus deltoides*  
Roland, G. and J. Tahon, 1961
- Gomphrena globosa*  
Roland, G. and J. Tahon, 1961
- Gypsophila elegans*  
Roland, G. and J. Tahon, 1961

## VIRUS

- V. BEET YELLOWS (cont.)
- Kochia childsii*  
Roland, G. and J. Tahon, 1961
- Kochia scoparia*  
Roland, G. and J. Tahon, 1961
- Lychnis coronaria*  
Roland, G. and J. Tahon, 1961
- Melilotus indica*  
Roland, G. and J. Tahon, 1961
- Mesembryanthemum crystallinum*  
Roland, G. and J. Tahon, 1961
- Monolepis nuttalliana*  
Roland, G. and J. Tahon, 1961
- Monolepis trifida*  
Roland, G. and J. Tahon, 1961
- Nicotiana bigelovii*  
Roland, G. and J. Tahon, 1961
- Nicotiana clevelandii*  
Roland, G. and J. Tahon, 1961
- Papaver dubium*  
Roland, G. and J. Tahon, 1961
- Papaver rhoeas*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Pectocarya pusilla*  
Roland, G. and J. Tahon, 1961
- Plantago erecta*  
Roland, T. and J. Tahon, 1961
- Plantago insularis*  
Roland, G. and J. Tahon, 1961
- Plantago lanceolata*  
Roland, G. and J. Tahon, 1961
- Plantago major*  
Roland, G. and J. Tahon, 1961
- Plantago rumosa* \*  
Roland, G. and J. Tahon, 1961
- Polygonum convolvulus*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Polygonum persicaria*  
Roland, G. and J. Tahon, 1961
- Reseda odorata*  
Roland, G. and J. Tahon, 1961
- Rhagodia nutans*  
Roland, G. and J. Tahon, 1961
- Salsola kali*  
Roland, G. and J. Tahon, 1961
- Senecio vulgaris*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Silene armeria*  
Roland, G. and J. Tahon, 1961
- Silene gallica*  
Roland, G. and J. Tahon, 1961
- Spergula arvensis*  
Roland, G. and J. Tahon, 1961
- Spinacia oleracea*  
Bennett, C.W. and A.S. Costa, 1949  
McLean, D.M., 1953  
Roland, G. and J. Tahon, 1961
- Spinacia tetrandia*  
Roland, G. and J. Tahon, 1961
- Stellaria media*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Suaeda fruticosa*  
Roland, G. and J. Tahon, 1961
- Suaeda moquini*  
Roland, G. and J. Tahon, 1961
- Suaeda splendens*  
Roland, G. and J. Tahon, 1961
- Tetragonia echinata*  
Roland, G. and J. Tahon, 1961
- Tetragonia expansa*  
Roland, G. and J. Tahon, 1961
- Thlaspi arvense*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Roland, G. and J. Tahon, 1961
- Trianthema portulacastrum*  
Roland, G. and J. Tahon, 1961

## VIRUS

- V. BLACKBERRY DWARF Zeller 1927
- Rubus fruticosus*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Rubus loganobaccus*  
Zeller, S.M., 1925
- Rubus* spp.  
Zeller, S.M., 1927
- V. BLACKBERRY DWARFING Wilhelm et al. 1948
- Rubus allegheniensis*  
Wilhelm, Stephen, H.E. Thomas and D.D. Jensen, 1948
- Rubus ursinus*  
Wilhelm, Stephen, H.E. Thomas and D.D. Jensen, 1948
- V. BLACKBERRY VARIATION Horn 1948
- Rubus allegheniensis*  
Horn, Norman L., 1948
- Rubus idaeus*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Rubus occidentalis*  
Horn, Norman L., 1948
- V. BLACK CURRANT REVERSION ((Lees 1920; Amos and Hatton 1927)) Amos et al. 1928
- Ribes nigrum*  
Lees, A.H., 1925
- V. BLACK CURRANT VEIN PATTERN Posnette 1952
- Ribes nigrum*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. BLACK RASPBERRY NECROSIS Stace-Smith 1955
- Rubus albescens*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Rubus henryi*  
Cadman, C.H., 1951
- Rubus idaeus*  
Cadman, C.H., 1951, 1954
- Rubus idaeus* var. *strigosus*  
Bennett, C.W., 1927, 1932  
Schwartz, C.D. and Glenn A. Huber, 1939  
Wilcox, R.B. and F.F. Smith, 1924
- Rubus laciniatus*  
Bennett, C.W., 1932
- Rubus macropetalus*  
Bennett, C.W., 1932
- Rubus neglectus*  
Bennett, C.W., 1927, 1932  
Cooley, L.M., 1936
- Rubus occidentalis*  
Bennett, C.W., 1927, 1932  
Cadman, C.H., 1951, 1954  
Cooley, L.M., 1936  
Rankin, W.H., 1930, 1931  
Wilcox, R.B. and F.F. Smith, 1924
- Rubus procerus*  
(K. M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Rubus saxatilis*  
Cadman, C.H., 1951
- Rubus strigosus*  
Huber, Glenn A. and C.D. Schwartz, 1938
- V. BROAD BEAN MOTTLE Bawden et al. 1951
- Chenopodium amaranticolor*  
Hollings, M., 1957
- Glycine max*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- Lathyrus odoratus*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
Yu, T.F., 1939
- Medicago sativa*  
Yu, T.F., 1939
- Melilotus alba*  
Yu, T.F., 1939
- Phaseolus vulgaris*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951

## VIRUS

## V. BROAD BEAN MOTTLE (cont.)

- Pisum sativum*  
Bawden, F. C., R.P. Chaudhuri and B. Kassanis, 1951
- Pisum sativum* var. *arvense*  
Yu, T. F., 1939
- Trifolium incarnatum*  
Bawden, F. C., R.P. Chaudhuri and B. Kassanis, 1951
- Trifolium pratense*  
Bawden, F. C., R.P. Chaudhuri and B. Kassanis, 1951  
Yu, T. F., 1939
- Trifolium repens*  
Yu, T. F., 1939
- Trifolium subterraneum*  
Bawden, F. C., R.P. Chaudhuri and B. Kassanis, 1951
- Vicia faba*  
Bawden, F. C., R.P. Chaudhuri and B. Kassanis, 1951  
Yu, T. F., 1939
- Vicia sativa*  
Yu, T. F., 1939
- Vicia tetrasperma*  
Yu, T. F., 1939
- Vicia villosa*  
Yu, T. F., 1939
- V. BROME MOSAIC McKinney 1944
- Agropyron* hybrid  
Sill, W. H., Jr., 1956
- Avena byzantina*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Avena sativa*  
McKinney, H.H., 1944, 1953  
McKinney, H.H., H. Fellows and C.O. Johnston, 1942
- Beta vulgaris*  
McKinney, H.H., 1953
- Beta vulgaris* var. *cicla*  
McKinney, H.H., 1953
- Bromus inermis*  
McKinney, H.H., 1953  
McKinney, H.H., H. Fellows and C.O. Johnston, 1942
- Chenopodium album*  
McKinney, H.H., 1953
- Cucumis sativus*  
McKinney, H.H., 1944, 1953
- Digitaria ischaemum*  
McKinney, H.H., 1953
- Euchlaena mexicana*  
McKinney, H.H., 1944
- Euchlaena perennis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Hordeum vulgare*  
McKinney, H.H., 1944, 1953, 1956
- Nicotiana tabacum*  
McKinney, H.H., 1944, 1953
- Oryza sativa*  
Kahn, Robert P. and Ottie J. Dickerson, 1957
- Phaseolus vulgaris*  
McKinney, H.H., 1944, 1953
- Secale cereale*  
McKinney, H.H., 1944
- Sorghum halepense*  
McKinney, H.H., 1944
- Sorghum vulgare*  
McKinney, H.H., 1944
- Sorghum vulgare* var. *sudanense*  
McKinney, H.H., 1944
- Triticum aestivum*  
Lal, S.B. and W.H. Sill, Jr., 1957  
McKinney, H.H., 1944, 1953, 1956  
McKinney, H.H., H. Fellows and C.O. Johnston, 1942
- Zea mays*  
McKinney, H.H., 1944  
Sill, W.H.; Jr., 1956
- Zea mays* var. *saccharata*  
McKinney, H.H., 1953

## VIRUS

- V. CABBAGE BLACK RING SPOT Smith 1935 ((? a strain of *V. turnip mosaic* (q.v.))
- Alonsoa warscewiczii*  
Hollings, M., 1957
- Amaranthus caudatus*  
Hollings, M., 1957
- Anchusa capensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Anchusa* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Anemone nemorosa*  
Hollings, M., 1957
- Barbarea vulgaris*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Begonia semperflorens*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica adpressa*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica campestris* var. *napobrassica*  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938
- Brassica chinensis*  
Hamlyn, Brenda M.G., 1953
- Brassica hirta* (*Brassica alba*)  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica juncea* (*Brassica japonica*)  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica kabera* (*Brassica arvensis*)  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938
- Brassica muralis*  
Hamlyn, Brenda M.G., 1953
- Brassica napus*  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica oleracea* var. *acephala*  
Broadbent, L., 1954  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica oleracea* var. *botrytis*  
Broadbent, L., 1954  
Broadbent, L. and T.W. Tinsley, 1953  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938
- Brassica oleracea* var. *bullata* \*  
Hamlyn, Brenda M.G., 1953
- Brassica oleracea* var. *capitata*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Pound, Glenn S., 1952  
Pound, Glenn S. and J.C. Walker, 1951  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938
- Brassica oleracea* var. *caulorapa*  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica oleracea* var. *gemmaifera*  
Broadbent, L., 1954  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937, 1938
- Brassica oleracea* var. *gongyloides*  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937
- Brassica oleracea* var. *italica* \*  
Hamlyn, Brenda M.G., 1953
- Brassica oleracea* var. *viridis*  
Tompkins, C.M., M.W. Gardner and H.R. Thomas, 1937
- Brassica pekinensis*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957

## VIRUS

## V. CABBAGE BLACK RING SPOT (cont.)

- Brassica pekinensis*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Brassica rapa*  
Bawden, F.C., Brenda M.G. Hamlyn and Marion  
A. Watson, 1954  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Camelina sativa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Canna indica*  
Hollings, M., 1957
- Capsella bursa-pastoris*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Cardamine hirsuta*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cheiranthus cheiri*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Chenopodium album*  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Chenopodium amaranticolor*  
Hollings, M., 1956, 1957
- Chenopodium murale*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Chrysanthemum carinatum*  
Hollings, M., 1957
- Chrysanthemum coronarium*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Cichorium endivia*  
Hamlyn, Brenda M.G., 1953
- Cochlearia armoracia*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura ferox*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura stramonium*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Dimorphotheca aurantiaca*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Echium vulgare*  
Hollings, M., 1957
- Gomphrena globosa*  
Hollings, M., 1957
- Hesperis matronalis*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Isatis tinctoria*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lepidium campestre*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lunaria annua*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Lycium halimifolium*  
Hamlyn, Brenda M.G., 1953
- Malcomia maritima*  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Matthiola bicornis*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Matthiola incana*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Matthiola incana var. annua*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957

## VIRUS

## V. CABBAGE BLACK RING SPOT (cont.)

- Matthiola incana var. annua*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Mimulus luteus*  
Hollings, M., 1957
- Myosotis alpestris*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Nasturtium officinale* (*Rorippa nasturtium-aquaticum*)  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1937
- Nicotiana glutinosa*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Nicotiana langsdorffii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Nicotiana rustica*  
Hamlyn, Brenda M.G., 1953
- Nicotiana tabacum*  
Bawden, F.C., Brenda M.G. Hamlyn and Marion  
A. Watson, 1954  
Broadbent, L., 1954  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Pound, Glenn S., 1952  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Papaver nudicaule*  
Hamlyn, Brenda M.G., 1953  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Papaver rhoeas*  
Hamlyn, Brenda M.G., 1953
- Papaver somniferum*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957
- Passiflora caerulea*  
Hollings, M., 1957
- Petunia hybrida*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Physalis peruviana*  
Hollings, M., 1957
- Radicula nasturtium-aquaticum*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Raphanus raphanistrum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Raphanus sativus var. longipinnatus* \*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Reseda odorata*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Rheum rhaponticum*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Salpiglossis sinuata*  
Hollings, M., 1957
- Scabiosa atropurpurea*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Schizanthus pinnatus*  
Hollings, M., 1957
- Senecio cruentus*  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Sisymbrium officinale*  
Hollings, M., 1957
- Spinacia oleracea*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938
- Stellaria media*  
Tompkins, C.M., M.W. Gardner and H.R.  
Thomas, 1937, 1938

## VIRUS

## V. CABBAGE BLACK RING SPOT (cont.)

- Tetragonia expansa*  
Hollings, M., 1957
- Thlaspi arvense*  
Hollings, M., 1957
- Tropaeolum majus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Verbena hybrida*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938
- Vicia faba*  
Hollings, M., 1957
- Vinca rosea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Zinnia elegans*  
Hamlyn, Brenda M.G., 1953  
Hollings, M., 1957  
Tompkins, C.M., M.W. Gardner and H. Rex  
Thomas, 1938

## V. CABBAGE RING NECROSIS Larson and Walker 1941

- Berteroa incana*  
Larson, R.H. and J.C. Walker, 1941
- Beta vulgaris*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Beta vulgaris* var. *cicla*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Beta vulgaris* var. *macrorhiza* \*  
Larson, R.H. and J.C. Walker, 1941
- Brassica campestris* var. *napobrassica*  
Larson, R.H. and J.C. Walker, 1941
- Brassica hirta* (*Brassica alba*)  
Larson, R.H. and J.C. Walker, 1941
- Brassica juncea* (*Brassica japonica*)  
Larson, R.H. and J.C. Walker, 1941
- Brassica napus*  
Larson, R.H. and J.C. Walker, 1941
- Brassica nigra*  
Larson, R.H. and J.C. Walker, 1941
- Brassica oleracea* var. *botrytis*  
Larson, R.H. and J.C. Walker, 1941
- Brassica oleracea* var. *capitata*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Brassica oleracea* var. *gemmifera*  
Larson, R.H. and J.C. Walker, 1941
- Brassica oleracea* var. *gongyloides*  
Larson, R.H. and J.C. Walker, 1941
- Brassica oleracea* var. *viridis*  
Larson, R.H. and J.C. Walker, 1941
- Brassica pekinensis*  
Larson, R.H. and J.C. Walker, 1941
- Brassica rapa*  
Larson, R.H. and J.C. Walker, 1941
- Brassica* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Calendula officinalis*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Capsella bursa-pastoris*  
Larson, R.H. and J.C. Walker, 1941
- Cheiranthus allionii*  
Larson, R.H. and J.C. Walker, 1941
- Cucumis sativus*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Hesperis matronalis*  
Larson, R.H. and J.C. Walker, 1941
- Lepidium sativum*  
Larson, R.H. and J.C. Walker, 1941
- Lepidium virginicum*  
Larson, R.H. and J.C. Walker, 1941
- Matthiola incana* var. *annua*  
Larson, R.H. and J.C. Walker, 1941
- Neslia paniculata*  
Larson, R.H. and J.C. Walker, 1941
- Nicotiana glutinosa*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Nicotiana langsdorffii*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Nicotiana repanda*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Nicotiana rustica*  
Larson, R.H. and J.C. Walker, 1940, 1941

## VIRUS

## V. CABBAGE RING NECROSIS (cont.)

- Nicotiana tabacum*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Petunia hybrida*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Raphanus sativus*  
Larson, R.H. and J.C. Walker, 1941
- Sisymbrium altissimum*  
Larson, R.H. and J.C. Walker, 1941
- Sisymbrium officinale*  
Larson, R.H. and J.C. Walker, 1941
- Spinacia oleracea*  
Larson, R.H. and J.C. Walker, 1940, 1941
- Thlaspi arvense*  
Larson, R.H. and J.C. Walker, 1941
- Zinnia elegans*  
Larson, R.H. and J.C. Walker, 1940, 1941
- V. CACAO SWOLLEN SHOOT ((W.F. Stevens) 1937))  
*Abroma augusta* Posnette 1940  
Tinsley, T.W. and A.L. Wharton, 1958
- Adansonia digitata*  
Attafuah, A. and T.W. Tinsley, 1958  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- Bombax buonopozense*  
Attafuah, A. and T.W. Tinsley, 1958  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- Bombax malabaricum*  
Tinsley, T.W. and A.L. Wharton, 1958
- Ceiba cordifolia* \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Ceiba pentandra*  
Attafuah, A. and T.W. Tinsley, 1958  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- Cola chlamydantha*  
Tinsley, T.W. and A.L. Wharton, 1958
- Cola cordifolia*  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950
- Cola gigantea* var. *glabrescens* \*  
Tinsley, T.W. and A.L. Wharton, 1958
- Cola lateritia* var. *maclaudi* \*  
Tinsley, T.W. and A.L. Wharton, 1958
- Corchorus aestuans*  
Tinsley, T.W. and A.L. Wharton, 1958
- Corchorus olitorius*  
Tinsley, T.W. and A.L. Wharton, 1958
- Corchorus tridens*  
Tinsley, T.W. and A.L. Wharton, 1958
- Corchorus trilobularis*  
Tinsley, T.W. and A.L. Wharton, 1958
- Erythropsis barberi*  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950
- Heliocarpus popayanensis*  
Tinsley, T.W. and A.L. Wharton, 1958
- Herrania balaensis*  
Tinsley, T.W. and A.L. Wharton, 1958
- Herrania* spp.  
Tinsley, T.W. and A.L. Wharton, 1958
- Hildegardia barberi*  
Tinsley, T.W. and A.L. Wharton, 1958
- Pterygota macrocarpa*  
Tinsley, T.W. and A.L. Wharton, 1958
- Sterculia laevis*  
Tinsley, T.W. and A.L. Wharton, 1958
- Sterculia rhinopetala*  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958
- Sterculia setigera*  
Tinsley, T.W. and A.L. Wharton, 1958
- Sterculia tragacantha*  
Posnette, A.F., N.F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T.W. and A.L. Wharton, 1958

- VIRUS
- V. CACAO SWOLLEN SHOOT (cont.)
- Theobroma angustifolia*  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma bicolor*  
Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
Posnette, A.F. and J. McA. Todd, 1951  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma cacao*  
Attafuah, A. and T.W. Tinsley, 1958  
Baker, R.E.D. and W.T. Dale, 1947  
Crowdy, S.H. and A.F. Posnette, 1947  
Goodall, D.W., 1949  
Hanna, A.F. and W. Heatherington, 1957  
Posnette, A.F., 1947, 1950  
Posnette, A.F. and N.F. Robertson, 1950  
Posnette, A.F., N.F. Robertson and J. McA. Todd, 1950  
Posnette, A.F. and A.H. Strickland, 1948  
Posnette, A.F. and J. McA. Todd, 1951, 1955  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma grandiflorum*  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma microcarpa*  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma obovata*  
Tinsley, T.W. and A.L. Wharton, 1958
- Theobroma speciosa*  
Tinsley, T.W. and A.L. Wharton, 1958
- V. CAMELLIA YELLOW MOTTLE LEAF  
*Camellia japonica* Milbrath and McWhorter 1946  
Milbrath, J.A. and F.P. McWhorter, 1940  
Plakidas, A.G., 1953, 1954
- Camellia sasanqua*  
Plakidas, A.G., 1953, 1954
- V. CANNA MOSAIC Fukushi 1932
- Canna edulis*  
Celino, M.S. and G.O. Ocfemia, 1941
- Canna generalis*  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
- Canna glauca*  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
- Canna indica*  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956  
Ocfemia, G.O., Isidro S. Macaspac and Hsieh Feng Yuan, 1941
- Musa textilis*  
Juliano, Jorge P., 1951  
Ocfemia, G.O., Isidro S. Macaspac and Hsieh Feng Yuan, 1941
- Phaseolus vulgaris*  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
- Zea mays*  
Castillo, B.S., C.E. Yarwood and A.H. Gold, 1956
- V. CARDAMOM MOSAIC Uppal et al. 1945  
*Elettaria cardamomum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. CARNATION MOSAIC Creager 1943
- Asclepias syriaca*  
Gasiorkiewicz, E.C., 1954
- Beta vulgaris*  
Brierley, Philip and Floyd F. Smith, 1957
- Chenopodium album*  
Brierley, Philip and Floyd F. Smith, 1957  
Gasiorkiewicz, E.C., 1956
- Chenopodium amaranticolor*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus barbatus*  
Ames, Ralph W. and H.H. Thornberry, 1952  
Ames, Ralph W., A.E. Vatter, John J. Scholz and H.H. Thornberry, 1951
- VIRUS
- V. CARNATION MOSAIC (cont.)
- Dianthus barbatus*  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Gasiorkiewicz, E.C., 1954, 1956  
Rumley, Gail E. and W.D. Thomas, Jr., 1951  
Thomas, W.D., Jr. and R.R. Baker, 1952  
Wright, Charles M., 1951
- Dianthus caryophyllus*  
Ames, Ralph W. and H.H. Thornberry, 1952  
Ames, Ralph W., A.E. Vatter, John J. Scholz and H.H. Thornberry, 1951  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Creager, D.B., 1943  
Gasiorkiewicz, E.C., 1954, 1956  
Jones, Leon K., 1945  
Rumley, Gail E. and W.D. Thomas, Jr., 1951  
Thomas, W.D., Jr. and R.R. Baker, 1952  
Wright, Charles M., 1951
- Dianthus chinensis*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus deltoides*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus giganteus*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus latifolius*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus plumarius*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus superbus*  
Brierley, Philip and Floyd F. Smith, 1957
- Gomphrena globosa*  
Brierley, Philip and Floyd F. Smith, 1957  
Gasiorkiewicz, E.C., 1954  
Wright, Charles M., 1951
- Helichrysum bracteatum*  
Gasiorkiewicz, E.C., 1954
- Lycopersicon esculentum*  
Wright, Charles M., 1951
- Silene compacta*  
Brierley, Philip and Floyd F. Smith, 1957
- Tunica saxifraga*  
Brierley, Philip and Floyd F. Smith, 1957
- V. CARNATION MOTTLE Kassanis 1955
- Chenopodium amaranticolor*  
Brierley, Philip and Floyd F. Smith, 1957  
Hollings, M., 1956
- Dianthus barbatus*  
Brierley, Philip and Floyd F. Smith, 1957  
Kassanis, B., 1955
- Dianthus caryophyllus*  
Brierley, Philip and Floyd F. Smith, 1957  
Kassanis, B., 1955
- Dianthus superbus*  
Brierley, Philip and Floyd F. Smith, 1957
- Gomphrena globosa*  
Brierley, Philip and Floyd F. Smith, 1957
- Silene compacta*  
Brierley, Philip and Floyd F. Smith, 1957
- V. CARNATION RING SPOT Kassanis 1955
- Althaea rosea*  
Brierley, Philip and Floyd F. Smith, 1957
- Antirrhinum majus*  
Brierley, Philip and Floyd F. Smith, 1957
- Arenaria montana*  
Brierley, Philip and Floyd F. Smith, 1957
- Beta vulgaris*  
Brierley, Philip and Floyd F. Smith, 1957
- Calendula officinalis*  
Brierley, Philip and Floyd F. Smith, 1957
- Callistephus chinensis*  
Brierley, Philip and Floyd F. Smith, 1955, 1957
- Celosia argentea* var. *cristata*  
Brierley, Philip and Floyd F. Smith, 1957
- Chenopodium album*  
Brierley, Philip and Floyd F. Smith, 1957
- Chenopodium amaranticolor*  
Brierley, Philip and Floyd F. Smith, 1957  
Hollings, M., 1956
- Cucumis sativus*  
Brierley, Philip and Floyd F. Smith, 1955, 1957

## VIRUS

## V. CARNATION RING SPOT (cont.)

- Datura innoxia*  
Brierley, Philip and Floyd F. Smith, 1957
- Datura stramonium*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus arenarius*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus barbatus*  
Brierley, Philip and Floyd F. Smith, 1957  
Kassanis, B., 1955
- Dianthus caesius*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus caryophyllus*  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
- Dianthus deltooides*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus plumarius*  
Brierley, Philip and Floyd F. Smith, 1957
- Dianthus superbus*  
Brierley, Philip and Floyd F. Smith, 1957
- Glycine max*  
Brierley, Philip and Floyd F. Smith, 1957
- Gomphrena globosa*  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
- Gypsophila elegans*  
Kassanis, B., 1955
- Lathyrus odoratus*  
Brierley, Philip and Floyd F. Smith, 1957
- Lychnis alba*  
Kassanis, B., 1955
- Nicotiana glutinosa*  
Kassanis, B., 1955
- Nicotiana tabacum*  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
- Phaseolus vulgaris*  
Brierley, Philip and Floyd F. Smith, 1955, 1957  
Kassanis, B., 1955
- Saponaria ocyroides*  
Brierley, Philip and Floyd F. Smith, 1957
- Silene compacta*  
Brierley, Philip and Floyd F. Smith, 1957
- Spinacia oleracea*  
Brierley, Philip and Floyd F. Smith, 1957
- Tagetes patula*  
Brierley, Philip and Floyd F. Smith, 1957
- Tunica saxifraga*  
Brierley, Philip and Floyd F. Smith, 1957
- Ulmus americana*  
Brierley, Philip and Floyd F. Smith, 1957
- V. CARNATION VEIN MOTTLE Kassanis 1955
- Chenopodium amaranticolor*  
Hollings, M., 1956
- Dianthus barbatus*  
Kassanis, B., 1955
- Dianthus caryophyllus*  
Kassanis, B., 1955
- V. CARROT MOTLEY DWARF Stubbs 1948
- Apium leptophyllum*  
Stubbs, L. L., 1955
- Capsicum frutescens* (*Capsicum annuum*)  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Datura stramonium*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Daucus carota* var. *sativa*  
Stubbs, L. L., 1956
- Nemesia* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Nicotiana tabacum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Petunia* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. CASSAVA BROWN STREAK Storey 1936
- Manihot esculenta* (*Manihot utilissima*)  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## VIRUS

## V. (CASSAVA) GREEN MOSAIC \*

- Manihot* spp.  
McKinney, H. H., 1929
- V. CASSAVA MOSAIC Lefevre 1935; Storey and Nichols
- Manihot esculenta* (*Manihot utilissima*) 1938  
Chant, S. R., 1958  
McKinney, H. H., 1928  
Storey, H. H. and R. F. W. Nichols, 1938
- Manihot palmata*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. CAULIFLOWER MOSAIC Tompkins 1934
- Barbarea verna*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Barbarea vulgaris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Brassica adpressa*  
Tompkins, C. M., 1937  
Tompkins, C. M. and H. Rex Thomas, 1938
- Brassica campestris*  
Tompkins, C. M., 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica campestris* var. *napobrassica*  
Alvarez-Garcia, L. A., 1951  
Berkeley, G. H. and J. H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C. M., 1937
- Brassica hirta* (*Brassica alba*)  
Tompkins, C. M., 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica juncea* (*Brassica japonica*)  
Tompkins, C. M., 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica kaber* (*Brassica arvensis*)  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C. M., 1937
- Brassica kaber* var. *pinnatifida*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica muralis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Brassica napus*  
Berkeley, G. H. and J. H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C. M., 1937  
Tompkins, C. M. and H. Rex Thomas, 1938  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica nigra*  
Tompkins, C. M., 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica oleracea* var. *acephala*  
Alvarez-Garcia, L. A., 1951  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C. M., 1934, 1937
- Brassica oleracea* var. *botrytis*  
Alvarez-Garcia, L. A., 1951  
Berkeley, G. H. and J. H. Tremaine, 1954  
Broadbent, L., 1954  
Broadbent, L. and T. W. Tinsley, 1953  
Caldwell, John and Ian W. Prentice, 1942  
Jenkinson, J. G., 1955  
Severin, Henry H. P. and C. M. Tompkins, 1948  
Tompkins, C. M., 1934, 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica oleracea* var. *capitata*  
Alvarez-Garcia, L. A., 1951  
Berkeley, G. H. and J. H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Natti, J. J., 1956  
Pound, Glenn S., 1946, 1947, 1952  
Pound, Glenn S. and J. C. Walker, 1951  
Tompkins, C. M., 1934, 1937  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945



## VIRUS

- V. CAULIFLOWER MOSAIC (cont.)
- Brassica oleracea* var. *caulorapa*  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C.M., 1937
- Brassica oleracea* var. *gemmifera*  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Severin, Henry H.P. and C.M. Tompkins, 1948  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica oleracea* var. *gongyloides*  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica oleracea* var. *italica* \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Brassica oleracea* var. *subauda* \*  
Caldwell, John and Ian W. Prentice, 1942
- Brassica oleracea* var. *viridis*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica pekinensis*  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Brassica rapa*  
Alvarez-Garcia, L.A., 1951  
Hamlyn, Brenda M.G., 1955  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Camelina sativa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Capsella bursa-pastoris*  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Cheiranthus cheiri*  
Berkeley, G.H. and J.H. Tremaine, 1954
- Cochlearia armoracia*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Crambe maritima*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Diplotaxis tenuifolia*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Iberis amara*  
Tompkins, C.M., 1937
- Isatis tinctoria*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lepidium campestre*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lepidium sativum*  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lepidium virginicum*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lunaria annua*  
Tompkins, C.M., 1937
- Matthiola incana*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Tompkins, C.M., 1934
- Matthiola incana* var. *annua*  
Severin, Henry H.P. and C.M. Tompkins, 1948  
Tompkins, C.M., 1937  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Neslia paniculata*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana tabacum*  
Broadbent, L., 1954  
Pound, Glenn S., 1952
- Raphanus raphanistrum*  
Tompkins, C.M., 1937

## VIRUS

- V. CAULIFLOWER MOSAIC (cont.)
- Raphanus sativus*  
Alvarez-Garcia, L.A., 1951  
Berkeley, G.H. and J.H. Tremaine, 1954  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C.M.; 1937  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Sisymbrium altissimum*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Sisymbrium officinale*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Thlaspi arvense*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- V. CELERY MOSAIC Holmes 1939
- Anethum graveolens*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Anthriscus cerefolium*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Apium graveolens*  
Doolittle, S.P. and F.L. Wellman, 1934
- Apium graveolens* var. *dulce*  
Bardin, Roy, 1947  
Freitag, Julius H. and Henry H.P. Severin, 1939, 1945  
Poole, R.F., 1922  
Severin, H.H.P. and J.H. Freitag, 1935, 1938
- Apium graveolens* var. *rapaceum*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Carum carvi*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Commelina communis*  
Price, W.C., 1935
- Commelina nudiflora*  
Doolittle, S.P., 1931  
Doolittle, S.P. and F.L. Wellman, 1934
- Coriandrum sativum*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Cucumis sativus*  
Doolittle, S.P., 1931  
Doolittle, S.P. and F.L. Wellman, 1934
- Daucus carota* var. *sativa*  
Freitag, Julius H. and Henry H.P. Severin, 1945  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Lilium longiflorum*  
Price, W.C., 1937
- Lycopersicon esculentum*  
Doolittle, S.P., 1931  
Doolittle, S.P. and F.L. Wellman, 1934
- Nicotiana tabacum*  
Doolittle, S.P., 1931  
Doolittle, S.P. and F.L. Wellman, 1934  
Nolla, J.A.B., 1934  
Price, W.C., 1936
- Pastinaca sativa*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Petroselinum crispum* var. *latifolium* \*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Petroselinum hortense*  
Severin, Henry H.P. and Julius H. Freitag, 1938
- Physalis lagascae*  
Doolittle, S.P. and F.L. Wellman, 1934
- Physalis pubescens*  
Doolittle, S.P., 1931  
Doolittle, S.P. and F.L. Wellman, 1934
- Pimpinella anisum*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Vigna sinensis*  
Price, W.C., 1935
- Zea mays*  
Price, W.C., 1935
- Zinnia elegans*  
Price, W.C., 1935

## VIRUS

- V. (CELERY) PSEUDO-CALICO \*  
*Apium graveolens* var. *dulce*  
 Freitag, Julius H. and Henry H.P. Severin, 1939
- V. CELERY YELLOW SPOT Freitag and Severin 1945  
*Apium graveolens* var. *dulce*  
 Freitag, Julius H. and Henry H.P. Severin, 1939, 1945  
*Conium maculatum*  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
*Pastinaca sativa*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- V. (CEREAL) CALIFORNIA MOSAIC DISEASE \*  
*Hordeum vulgare*  
 Houston, Byron R. and John W. Oswald, 1952  
*Triticum aestivum*  
 Houston, Byron R. and John W. Oswald, 1952
- V. (CEREAL) ENANISMO DISEASE \*  
*Hordeum vulgare*  
 Gibler, John W., 1957  
*Triticum aestivum*  
 Gibler, John W., 1957
- V. CHERRY ALBINO Zeller et al. 1944  
*Prunus avium*  
 Zeller, S.M., J.A. Milbrath and C.B. Cordy, 1944
- V. CHERRY BARK SPLITTING \*  
*Prunus armeniaca*  
 Cameron, H. Ronald, 1954  
*Prunus cerasus*  
 Cameron, H. Ronald, 1954  
 Milbrath, J.A., 1957
- V. CHERRY BLACK CANKER Zeller et al. 1947  
*Prunus avium*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. CHERRY BUD ABORTION DISEASE \*  
*Prunus avium*  
 Milbrath, J.A. and H.E. Williams, 1956  
*Prunus cerasus*  
 Milbrath, J.A. and H.E. Williams, 1956
- V. CHERRY CHLOROSIS \*  
*Prunus mahaleb*  
 Keitt, G.W. and C.N. Clayton, 1941  
*Prunus virginiana*  
 Keitt, G.W. and C.N. Clayton, 1941
- V. CHERRY DUSTY YELLOWS Posnette 1954  
*Prunus avium*  
 Posnette, A.F., 1954  
*Prunus cerasus*  
 Posnette, A.F., 1954  
*Prunus persica*  
 Posnette, A.F., 1954
- V. CHERRY FRECKLE FRUIT DISEASE \*  
*Prunus avium*  
 Williams, H.E. and J.A. Milbrath, 1955
- V. CHERRY (FROGMORE) CANKER \*  
*Prunus avium*  
 Posnette, A.F. and R. Copley, 1957
- V. CHERRY GREEN RING MOTTLE \*  
*Prunus cerasus*  
 Fink, Harry C., 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Parker, K.G. and E.J. Klos, 1953  
*Prunus tomentosa*  
 Fink, Harry C., 1955
- V. CHERRY LITTLE CHERRY Foster and Lott 1947  
*Prunus avium*  
 Blodgett, E.C., E.L. Reeves, C.M. Wright and H.E. Williams, 1948  
 Foster, W.R. and T.B. Lott, 1947  
 Milbrath, J.A. and H.E. Williams, 1956  
 Reeves, E.L. and Philip W. Cheney, 1956

## VIRUS

- V. CHERRY LITTLE CHERRY (cont.)  
*Prunus avium*  
 Welsh, Maurice F., 1952  
 Wilks, Jack M. and J.A. Milbrath, 1956  
 Wilks, J.M. and M.F. Welsh, 1955  
*Prunus cerasus*  
 Milbrath, J.A. and H.E. Williams, 1956  
 Wilks, Jack M. and J.A. Milbrath, 1956  
*Prunus mollis*  
 Wilks, J.M. and M.F. Welsh, 1955  
*Prunus serrulata*  
 Milbrath, J.A. and H.E. Williams, 1956
- V. CHERRY MIDLEAF NECROSIS \*  
*Prunus avium*  
 Milbrath, J.A., 1957  
*Prunus cerasus*  
 Milbrath, J.A., 1957  
*Prunus serrulata*  
 Milbrath, J.A., 1957
- V. CHERRY MORA Milbrath 1952  
*Prunus avium*  
 Milbrath, J.A., 1952
- V. CHERRY MOTTLE \*  
*Prunus avium*  
 Hildebrand, E.M., 1944  
*Prunus domestica*  
 Hildebrand, E.M., 1944
- V. CHERRY MOTTLE LEAF Zeller 1934; Reeves 1941  
*Prunus avium*  
 Lott, T.B., 1945  
 Reeves, E.L., 1941  
 Richards, B.L. and L.C. Cochran, 1956  
 Zeller, S.M. and A.W. Evans, 1941  
*Prunus avium* x *Prunus cerasus*  
 Reeves, E.L., 1941  
*Prunus cerasus*  
 Reeves, E.L., 1941  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus emarginata*  
 Reeves, E.L., 1941  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus mahaleb*  
 Reeves, E.L., 1941  
*Prunus persica*  
 Richards, B.L. and L.C. Cochran, 1956
- V. CHERRY NECROTIC ETCH \*  
*Prunus avium*  
 Posnette, A.F., 1954  
*Prunus persica*  
 Posnette, A.F., 1954
- V. CHERRY NECROTIC LINE PATTERN Posnette 1954  
*Prunus avium*  
 Posnette, A.F. and R. Copley, 1956
- V. CHERRY NECROTIC RUSTY MOTTLE Richards and Reeves 1951  
*Prunus avium*  
 Afanasiev, M.M. and H.E. Morris, 1954  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Lott, T.B., 1945  
 Reeves, E.L. and B.L. Richards, 1946  
 Richards, B.L. and L.C. Cochran, 1956  
 Richards, B.L. and Bryce N. Wadley, 1950  
*Prunus avium* x *Prunus cerasus*  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus cerasus*  
 Richards, B.L. and L.C. Cochran, 1956  
 Richards, B.L. and Bryce N. Wadley, 1950  
*Prunus persica*  
 Richards, B.L. and L.C. Cochran, 1956  
 Richards, B.L. and Bryce N. Wadley, 1950  
*Prunus virginiana* var. *demissa*  
 Richards, B.L. and L.C. Cochran, 1956
- V. CHERRY PINTO LEAF Kienholz 1947  
*Prunus avium*  
 Kienholz, J.R., 1947

## VIRUS

- V. CHERRY RASP LEAF Bodine and Newton 1942  
*Prunus armeniaca*  
 Posnette, A.F., 1954  
*Prunus avium*  
 Blodgett, Earle C., 1943  
 Bodine, E.W. and J.H. Newton, 1942  
 Milbrath, J.A., 1954  
 Posnette, A.F., 1954  
 Posnette, A.F. and R. Cropley, 1956  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus cerasifera*  
 Posnette, A.F., 1954  
*Prunus cerasus*  
 Blodgett, Earle C., 1943  
 Posnette, A.F., 1954  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus cerasus* var. *umbraculifera* \*  
 Milbrath, J.A., 1954  
*Prunus mahaleb*  
 Posnette, A.F., 1954  
*Prunus persica*  
 Posnette, A.F., 1954
- V. CHERRY RUGOSE MOSAIC Thomas and Rawlins 1951  
*Prunus amygdalus*  
 Nyland, George, 1954  
*Prunus avium*  
 Berkeley, G.H., 1950  
 Nyland, George, 1954  
 Posnette, A.F., 1954  
 Posnette, A.F. and R. Cropley, 1956  
 Richards, B.L. and L.C. Cochran, 1956  
 Thomas, H. Earl and T.E. Rawlins, 1939  
*Prunus cerasifera*  
 Posnette, A.F., 1954  
*Prunus cerasus*  
 Berkeley, G.H., 1950  
 Hildebrand, E.M., 1944  
 Posnette, A.F., 1954  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus domestica*  
 Nyland, George, 1954  
*Prunus mahaleb*  
 Berkeley, G.H., 1950  
 Thomas, H. Earl and T.E. Rawlins, 1939  
*Prunus persica*  
 Berkeley, G.H., 1950  
 Nyland, George, 1954  
 Posnette, A.F., 1954  
 Thomas, H. Earl and T.E. Rawlins, 1939
- V. CHERRY RUSTY MOTTLE Reeves 1940  
*Prunus armeniaca*  
 Posnette, A.F., 1954  
*Prunus avium*  
 Posnette, A.F., 1954  
 Posnette, A.F. and R. Cropley, 1956  
 Reeves, E.L., 1940  
 Zeller, S.M. and J.A. Milbrath, 1947  
*Prunus cerasus*  
 Posnette, A.F., 1954  
 Zeller, S.M. and J.A. Milbrath, 1947  
*Prunus domestica*  
 Zeller, S.M. and J.A. Milbrath, 1947  
*Prunus mahaleb*  
 Zeller, S.M. and J.A. Milbrath, 1947  
*Prunus persica*  
 Posnette, A.F., 1954  
 Zeller, S.M. and J.A. Milbrath, 1947  
*Prunus serrulata*  
 Zeller, S.M. and J.A. Milbrath, 1947
- V. CHERRY SUNKEN MOTTLE \*  
*Prunus avium*  
 Posnette, A.F., 1954  
*Prunus persica*  
 Posnette, A.F., 1954
- V. CHERRY TWISTED LEAF Lott 1943  
*Prunus avium*  
 Lott, T.B., 1943  
 Reeves, E.L. and Philip W. Cheney, 1956

## VIRUS

- V. CHERRY TWISTED LEAF (cont.)  
*Prunus persica*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. CHERRY VEIN CLEARING \*  
*Prunus avium*  
 Zeller, S.M. and A.W. Evans, 1941  
*Prunus serrulata*  
 Zeller, S.M. and A.W. Evans, 1941
- V. CHILLI (PEPPER) MOSAIC Ferguson 1951  
*Capsicum frutescens* (*Capsicum annum*)  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Capsicum frutescens* var. *grossum*  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
*Capsicum frutescens* var. *minimum* \*  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
*Carthamus tinctorius*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cucumis melo* var. *utilissimus* \*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cucumis sativus*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Datura stramonium*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Nicotiana alata* var. *grandiflora*  
 Dale, W.T., 1954  
*Nicotiana chinensis*  
 Dale, W.T., 1954  
*Nicotiana glutinosa*  
 Dale, W.T., 1954  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Nicotiana rustica*  
 Dale, W.T., 1954  
*Nicotiana sanderae*  
 Dale, W.T., 1954  
*Nicotiana sylvestris*  
 Dale, W.T., 1954  
*Nicotiana tabacum*  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Nicotiana tabacum* var. *macrophylla*  
 Dale, W.T., 1954  
 Ferguson, I.A.C., 1951  
*Nicotiana tomentosiformis*  
 Adsuar, J. and L. Lopez Matos, 1955  
*Nicotiana undulata*  
 Adsuar, J. and L. Lopez Matos, 1955  
*Nicotiana velutina*  
 Adsuar, J. and L. Lopez Matos, 1955  
*Petunia hybrida*  
 Dale, W.T., 1954  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Physalis floridana*  
 Dale, W.T., 1954  
*Solanum nigrum*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Solanum tuberosum*  
 Jha, Ashrafi and S.P. Raychaudhuri, 1956
- V. CHILLI VEINBANDING Simons 1956  
*Capsicum frutescens* (*Capsicum annum*)  
 Simons, J.N., 1956, 1957  
*Capsicum frutescens* var. *longum*  
 Simons, John N., 1956  
*Lycopersicon esculentum*  
 Simons, John N., 1956  
*Lycopersicon esculentum* var. *cerasiforme*  
 Simons, John N., 1956  
*Nicotiana glutinosa*  
 Simons, John N., 1956  
*Nicotiana tabacum*  
 Simons, John N., 1956  
*Physalis peruviana*  
 Simons, John N., 1956  
*Portulaca oleracea*  
 Simons, John N., 1956

## VIRUS

## V. CHILLI VEINBANDING (cont.)

- Solanum elaeagnifolium*  
Simons, John N., 1956
- Solanum gracile* \*  
Simons, John N., 1956, 1957
- Solanum melongena*  
Simons, John N., 1956
- Zinnia elegans*  
Simons, John N., 1956

## V. CHRYSANTHEMUM B (MILD MOSAIC) \*

- Aster amellus*  
Hollings, M., 1957
- Chrysanthemum carinatum*  
Hollings, M., 1957
- Chrysanthemum morifolium*  
Hollings, M., 1957
- Nicotiana affinis*  
Hollings, M., 1957
- Nicotiana glutinosa*  
Hollings, M., 1957
- Nicotiana rustica*  
Hollings, M., 1957
- Passiflora caerulea*  
Hollings, M., 1957
- Petunia hybrida*  
Hollings, M., 1957
- Senecio cruentus*  
Hollings, M., 1957
- Tetragonia expansa*  
Hollings, M., 1957
- Vicia faba*  
Hollings, M., 1957

## V. CHRYSANTHEMUM D \*

- Chenopodium amaranticolor*  
Hollings, M., 1956

## V. CHRYSANTHEMUM LATENT \*

- Amaranthus caudatus*  
Hollings, M., 1957
- Antirrhinum majus*  
Hollings, M., 1957
- Celosia argentea*  
Hollings, M., 1957
- Chenopodium amaranticolor*  
Hollings, M., 1957
- Chrysanthemum morifolium*  
Hollings, M., 1957
- Gomphrena globosa*  
Hollings, M., 1957
- Helichrysum bracteatum*  
Hollings, M., 1957
- Nicotiana glutinosa*  
Hollings, M., 1957
- Nicotiana rustica*  
Hollings, M., 1957
- Nicotiana tabacum*  
Hollings, M., 1957
- Papaver somniferum*  
Hollings, M., 1957
- Taraxacum officinale*  
Hollings, M., 1957
- Tetragonia expansa*  
Hollings, M., 1957
- Thlaspi arvense*  
Hollings, M., 1957

## V. CHRYSANTHEMUM Q Keller 1950

- Antirrhinum* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Calendula officinalis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Callistephus chinensis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Chrysanthemum hortorum*  
Graham, D. C., 1957
- Chrysanthemum indicum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Chrysanthemum morifolium*  
Brierley, Philip, 1955  
Brierley, Philip and Floyd F. Smith, 1953  
Holmes, Francis O., 1956

## VIRUS

## V. CHRYSANTHEMUM Q (cont.)

- Chrysanthemum morifolium*  
Keller, John R., 1951, 1953
- Petunia hybrida*  
Brierley, Philip, 1955  
Brierley, Philip and Floyd F. Smith, 1953

## V. CHRYSANTHEMUM RING SPOT Brierley and Smith

- Chrysanthemum indicum* 1955  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Chrysanthemum morifolium*  
Brierley, Philip and Floyd F. Smith, 1955
- Senecio cruentus*  
Brierley, Philip and Floyd F. Smith, 1955

## V. CHRYSANTHEMUM ROSETTE Brierley and Smith

- Chrysanthemum indicum* 1951  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. CHRYSANTHEMUM STUNT Brierley and Smith 1949

- Achillea millefolium*  
Brierley, Philip, 1953
- Achillea ptarmica*  
Brierley, Philip, 1950, 1953  
Keller, John R., 1953
- Ambrosia trifida*  
Brierley, Philip, 1953
- Anthemis tinctoria*  
Brierley, Philip, 1950, 1953
- Centaurea cyanus*  
Brierley, Philip, 1950, 1953  
Keller, John R., 1953
- Chrysanthemum carinatum*  
Brierley, Philip, 1950, 1953
- Chrysanthemum cinerariaefolium*  
Brierley, Philip, 1953
- Chrysanthemum coccineum*  
Brierley, Philip, 1950, 1953
- Chrysanthemum coronarium*  
Brierley, Philip, 1950, 1953
- Chrysanthemum corymbosum*  
Brierley, Philip, 1953
- Chrysanthemum frutescens*  
Brierley, Philip, 1953
- Chrysanthemum hortorum*  
Brierley, Philip, 1950
- Chrysanthemum indicum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Chrysanthemum lacustre*  
Brierley, Philip, 1953
- Chrysanthemum leucanthemum*  
Brierley, Philip, 1953
- Chrysanthemum majus*  
Brierley, Philip, 1953
- Chrysanthemum maximum*  
Brierley, Philip, 1953
- Chrysanthemum morifolium*  
Brierley, Philip, 1953  
Brierley, Philip and Floyd F. Smith, 1949, 1955  
Keller, John R., 1951, 1953  
Welsh, Maurice F., 1948
- Chrysanthemum myconis*  
Brierley, Philip, 1953
- Chrysanthemum nivellei*  
Brierley, Philip, 1953
- Chrysanthemum parthenium*  
Brierley, Philip, 1953
- Chrysanthemum parthenium* f. *flosculosum* \*
- Brierley, Philip, 1953
- Chrysanthemum praealtum*  
Brierley, Philip, 1950, 1953
- Chrysanthemum* spp.  
Brierley, Philip, 1953
- Chrysanthemum viscosum*  
Brierley, Philip, 1953
- Dahlia pinnata*  
Brierley, Philip, 1953
- Dahlia* spp.  
Keller, John R., 1953
- Dahlia variabilis*  
Brierley, Philip, 1950
- Echinacea purpurea*  
Brierley, Philip, 1950, 1953

## VIRUS

- V. CHRYSANTHEMUM STUNT (cont.)  
*Echinacea purpurea*  
 Keller, John R., 1953  
*Emilia sagittata*  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953  
*Heliopsis helianthoides* var. *pitcheriana*  
 Brierley, Philip, 1953  
*Liatris pycnostachya*  
 Brierley, Philip, 1953  
*Liatris spicata*  
 Brierley, Philip, 1950  
 Keller, John R., 1953  
*Sanvitalia procumbens*  
 Brierley, Philip, 1953  
*Senecio cruentus*  
 Brierley, Philip, 1950, 1953  
 Keller, John R., 1953  
*Senecio glastifolium*  
 Brierley, Philip, 1953  
*Senecio mikanioides*  
 Brierley, Philip, 1953  
*Tanacetum boreale*  
 Brierley, Philip, 1953  
*Tanacetum camphoratum*  
 Brierley, Philip, 1953  
*Tanacetum vulgare*  
 Brierley, Philip, 1953  
*Tithonia rotundifolia*  
 Brierley, Philip, 1953  
 Keller, John R., 1953  
*Venidium fastuosum*  
 Brierley, Philip, 1953  
*Verbesina encelioides*  
 Brierley, Philip, 1953  
*Zinnia elegans*  
 Brierley, Philip, 1953
- V. CHRYSANTHEMUM VEIN MOTTLE \*  
*Chrysanthemum morifolium*  
 Hollings, M., 1957  
*Petunia hybrida*  
 Hollings, M., 1957
- V. CINERARIA MOSAIC Jones 1942  
*Cineraria cruenta*  
 Jones, Leon K., 1944
- V. CITRUS CONVEX GUM \*  
*Citrus* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. CITRUS EXOCORTIS Moreira 1955  
*Citrus paradisi* on *Citrus aurantifolia*  
 Olson, E. O. and A. V. Shull, 1956  
*Citrus paradisi* on (*Citrus sinensis* x *Poncirus trifoliata*)  
 Olson, E. O. and A. V. Shull, 1956  
*Citrus sinensis* on *Citrus aurantifolia*  
 Olson, E. O. and A. V. Shull, 1956
- V. CITRUS GROWTH-RETARDING \*  
*Citrus limon*  
 Calavan, E. C., J. M. Wallace and L. G. Weathers,  
 1954
- V. CITRUS PSOROSIS ((Swingle and Weber 1896))  
*Citrus aurantifolia* Fawcett 1936  
 Wallace, J. M., 1951  
 Weathers, L. G., E. C. Calavan and J. M. Wallace,  
 1956  
*Citrus limon*  
 Fawcett, H. S. and A. A. Bitancourt, 1943  
 Weathers, L. G., E. C. Calavan and J. M. Wallace,  
 1956  
*Citrus maxima*  
 Weathers, L. G., E. C. Calavan and J. M. Wallace,  
 1956  
*Citrus paradisi*  
 Fawcett, H. S., 1938  
 Weathers, L. G., E. C. Calavan and J. M. Wallace,  
 1956  
*Citrus reticulata*  
 Fawcett, H. S., 1938

## VIRUS

- V. CITRUS PSOROSIS (cont.)  
*Citrus sinensis*  
 Fawcett, H. S., 1933, 1934, 1938  
 Fawcett, H. S. and A. A. Bitancourt, 1943  
 Fawcett, H. S. and L. C. Cochran, 1941, 1942  
 Rhoads, Authur S., 1942  
 Wallace, James M., 1945  
*Citrus* spp.  
 Bennett, C. W., 1944
- V. CITRUS STUBBORN DISEASE Fawcett 1946  
*Citrus sinensis*  
 Fawcett, H. S., 1946
- V. CITRUS TRISTEZA Meneghini 1946  
*Aeglopsis chevalieri*  
 Hughes, W. A. and C. A. Lister, 1953  
 Knorr, L. C., 1956  
*Afraegle paniculata*  
 Hughes, W. A. and C. A. Lister, 1953  
 Knorr, L. C., 1956  
*Arracacha esculenta*  
 Costa, A. S. and T. J. Grant, 1951  
*Citropsis articulata*  
 Hughes, W. A. and C. A. Lister, 1953  
*Citrus aurantifolia*  
 Dickson, R. C., Metta McD. Johnson, R. A. Flock  
 and Edward F. Laird, Jr., 1956  
 Grant, Theodore J. and Henry Schneider, 1953  
 Hughes, W. A. and C. A. Lister, 1953  
 Knorr, L. C., 1956  
 Olson, Edward O., 1956  
 Wallace, J. M., 1951, 1957  
 Wallace, J. M., P. C. J. Oberholzer and J. D. J.  
 Hofmeyer, 1956  
 Wallace, J. M., I. Reichert, A. Bental and E.  
 Winocour, 1956  
*Citrus aurantium*  
 Costa, A. S. and T. J. Grant, 1951  
 Grant, Theodore J. and A. S. Costa, 1951  
 Hughes, W. A. and C. A. Lister, 1953  
 Olson, Edward O., 1956  
*Citrus combava*  
 Knorr, L. C., 1956  
*Citrus grandis*  
 Carpenter, J. B., 1957  
 Wallace, James M., 1957  
*Citrus grandis* on *Citrus aurantium*  
 Bennett, C. W. and A. S. Costa, 1949  
*Citrus hystrix*  
 Knorr, L. C., 1956  
*Citrus limon*  
 Bennett, C. W. and A. S. Costa, 1949  
 Carpenter, J. B., 1956, 1957  
 Grant, Theodore J. and Richard P. Higgins, 1957  
 Hughes, W. A. and C. A. Lister, 1953  
 Olson, Edward O. and James R. McDonald, 1954  
 Schneider, Henry, 1957  
 Wallace, James M., 1957  
 Wallace, J. M., P. C. J. Oberholzer and J. D. J.  
 Hofmeyer, 1956  
 Wallace, J. M., I. Reichert, A. Bental and E.  
 Winocour, 1956  
*Citrus limon* on *Citrus aurantium*  
 Bennett, C. W. and A. S. Costa, 1949  
*Citrus limon* x *Citrus sinensis*  
 Olson, Edward O., 1956  
*Citrus limon* on *Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954  
*Citrus medica*  
 Hughes, W. A. and C. A. Lister, 1953  
*Citrus nobilis* var. *unshiu*  
 Hughes, W. A. and C. A. Lister, 1953  
 Olson, Edward O. and James R. McDonald, 1954  
 Wallace, James M., 1957  
*Citrus nobilis* var. *unshiu* on *Citrus paradisi* x  
*Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954  
*Citrus nobilis* var. *unshiu* on *Citrus sinensis* x  
*Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954  
*Citrus nobilis* var. *unshiu* on *Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954

## VIRUS

## V. CITRUS TRISTEZA (cont.)

- Citrus paradisi*  
Carpenter, J. B., 1957  
Hughes, W. A. and C. A. Lister, 1953  
Knorr, L. C., 1956  
Olson, Edward O., 1956  
Wallace, James M., 1957  
Wallace, J. M., P. C. J. Oberholzer and J. D. J. Hofmeyer, 1956
- Citrus paradisi* on *Citrus aurantium*  
Bennett, C. W. and A. S. Costa, 1949
- Citrus paradisi* x *Citrus reticulata*  
Costa, A. S. and T. J. Grant, 1951  
Hughes, W. A. and C. A. Lister, 1953
- Citrus paradisi* x *Citrus reticulata* on *Citrus aurantium*  
Bennett, C. W. and A. S. Costa, 1949
- Citrus reticulata*  
Bennett, C. W. and A. S. Costa, 1949  
Carpenter, J. B., 1957  
Hughes, W. A. and C. A. Lister, 1953  
Olson, Edward O., 1956  
Wallace, James M., 1957
- Citrus reticulata* on *Citrus aurantium*  
Bennett, C. W. and A. S. Costa, 1949
- Citrus sinensis*  
Carpenter, J. B., 1957  
Costa, A. S. and T. J. Grant, 1951  
Dickson, R. C., Metta McD. Johnson, R. A. Flock and Edward F. Laird, Jr., 1956  
Grant, Theodore J. and A. S. Costa, 1951  
Grant, Theodore J. and Henry Schneider, 1953  
Hughes, W. A. and C. A. Lister, 1953  
Knorr, L. C., 1956  
Schneider, Henry, J. M. Wallace and J. E. Dimitman, 1950  
Wallace, J. M., 1949, 1957
- Citrus sinensis* on *Citrus aurantifolia*  
Bennett, C. W. and A. S. Costa, 1949
- Citrus sinensis* on *Citrus aurantium*  
Bennett, C. W. and A. S. Costa, 1949  
Schneider, Henry, 1954
- Citrus sinensis* on *Citrus paradisi*  
Bennett, C. W. and A. S. Costa, 1949
- Clausena anisata*  
Hughes, W. A. and C. A. Lister, 1953
- Pamburus missiones*  
Knorr, L. C., 1956

- V. CITRUS VEIN ENATION Wallace and Drake 1953  
*Citrus* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. CITRUS VEIN-YELLOWING DISEASE \*

- Citrus aurantifolia*  
Weathers, L. G., 1957
- Citrus aurantifolia* x *Fortunella margarita*  
Weathers, L. G., 1957
- Citrus limon*  
Weathers, L. G., 1957
- Citrus mitis*  
Weathers, L. G., 1957
- Citrus paradisi* x *Citrus reticulata*  
Weathers, L. G., 1957
- Fortunella margarita*  
Weathers, L. G., 1957

## V. CITRUS XYLOPOROSIS Reichert and Perlberger 1934

- Citrus aurantifolia*  
Childs, J. F. L., 1956
- Citrus paradisi* on *Citrus aurantifolia*  
Olson, E. O. and A. V. Shull, 1956
- Citrus paradisi* on (*Citrus paradisi* x *Citrus reticulata*)  
Olson, E. O. and A. V. Shull, 1956
- Citrus paradisi* x *Citrus reticulata*  
Childs, J. F. L., 1956
- Citrus sinensis*  
Childs, J. F. L., 1956
- Citrus sinensis* x *Citrus reticulata*  
Childs, J. F. L., 1956

## V. CLOVE SUDDEN DEATH DISEASE \*

- Eugenia caryophyllata*  
Nutman, F. J. and F. M. L. Sheffield, 1949

## VIRUS

- V. CLOVER BIG VEIN Black 1944
- Anagallis linifolia*  
Black, L. M., 1945
- Anthemis cotula*  
Black, L. M., 1945
- Barbarea vulgaris*  
Black, L. M., 1945
- Brachycome iberidifolia*  
Black, L. M., 1945
- Capsella bursa-pastoris*  
Black, L. M., 1945  
Lee, C. L., 1956
- Chrysanthemum leucanthemum* var. *pinnatifidum*  
Black, L. M., 1945
- Collinsia bicolor*  
Black, L. M., 1945
- Dianthus armeria*  
Black, L. M., 1945
- Dianthus barbatus*  
Black, L. M., 1945
- Heliophila linearifolia*  
Black, L. M., 1945
- Heliotropium peruvianum*  
Black, L. M., 1945
- Kochia scoparia* var. *trichophylla*  
Black, L. M., 1945
- Lepidium campestre*  
Black, L. M., 1945
- Lepidium virginicum*  
Black, L. M., 1945
- Linaria maroccana*  
Black, L. M., 1945
- Linum grandiflorum*  
Black, L. M., 1945
- Lobelia erinus*  
Black, L. M., 1945
- Lychnis alba*  
Black, L. M., 1945
- Matthiola bicornis*  
Black, L. M., 1945
- Melilotus alba*  
Black, L. M., 1945, 1951
- Melilotus altissima*  
Black, L. M., 1951
- Melilotus dentata*  
Black, L. M., 1951
- Melilotus indica*  
Black, L. M., 1951
- Melilotus officinalis*  
Black, L. M., 1951
- Melilotus polonica*  
Black, L. M., 1951
- Melilotus suaveolens*  
Black, L. M., 1951
- Melilotus taurica*  
Black, L. M., 1951
- Melilotus tommasinii*  
Black, L. M., 1951
- Melilotus wolgica*  
Black, L. M., 1951
- Nicotiana tabacum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Nierembergia frutescens*  
Black, L. M., 1945
- Nolana atriplicifolia*  
Black, L. M., 1945
- Phacelia campanularia*  
Black, L. M., 1945
- Portulaca grandiflora*  
Black, L. M., 1945
- Portulaca oleracea*  
Black, L. M., 1945
- Reseda odorata*  
Black, L. M., 1945
- Rheum rhaponticum*  
Black, L. M., 1945
- Rudbeckia bicolor*  
Black, L. M., 1945
- Rudbeckia hirta*  
Black, L. M., 1945
- Rumex acetosa*  
Black, L. M., 1945

- VIRUS
- V. CLOVER BIG VEIN (cont.)  
*Rumex acetosella*  
 Black, L.M., 1945  
*Rumex crispus*  
 Black, L.M., 1945  
*Rumex obtusifolius*  
 Black, L.M., 1945  
*Scabiosa atropurpurea*  
 Black, L.M., 1945  
*Schizanthus wisetonensis*  
 Black, L.M., 1945  
*Silene latifolia*  
 Black, L.M., 1945  
*Tetragonia expansa*  
 Black, L.M., 1945  
*Torenia fournieri*  
 Black, L.M., 1945  
*Trifolium incarnatum*  
 Black, L.M., 1945, 1953  
 Black, L.M. and M.K. Brakke, 1952  
 Maramorosch, Karl, 1950  
*Trifolium pratense*  
 Black, L.M., 1945  
*Trigonella caerulea*  
 Black, L.M., 1951  
*Venidium fastuosum*  
 Black, L.M., 1945  
*Verbena hybrida*  
 Black, L.M., 1945  
*Vinca rosea*  
 Black, L.M., 1945
- V. CLOVER CLUB LEAF Black 1944  
*Trifolium incarnatum*  
 Black, L.M., 1948, 1949
- V. CLOVER DISEASE, EUROPEAN LEAFHOPPER-  
*Trifolium incarnatum* BORNE \*  
 Maramorosch, Karl, 1953, 1954
- V. CLOVER ENATION \*  
*Prunus avium*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Trifolium incarnatum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. CLOVER WITCHES' BROOM \*  
*Anthemis cotula*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Apium graveolens*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Daucus carota*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Duchesnea indica*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Fragaria vesca*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Lycopersicon esculentum*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Plantago major*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Solanum tuberosum*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Trifolium incarnatum*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Trifolium pratense*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Trifolium repens*  
 Frazier, N.W. and A.F. Posnette, 1957
- V. COCKSFOOT STREAK Smith 1952  
*Dactylis glomerata*  
 Smith, Kenneth M., 1952
- V. (COCONUT) CADANG-CADANG DISEASE \*  
*Cocos nucifera*  
 Celino, M.S., 1947
- V. COFFEE HOT AND COLD DISEASE \*  
*Coffea arabica*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- VIRUS
- V. COFFEE RING SPOT \*  
*Coffea arabica*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. COLEUS MOSAIC Creager 1945  
*Coleus blumei*  
 Creager, D.B., 1945
- V. CORN NEW MOSAIC \*  
*Hordeum vulgare*  
 Finley, A.M., 1954  
*Setaria viridis*  
 Finley, A.M., 1954  
*Triticum aestivum*  
 Finley, A.M., 1954
- V. COTTON LEAF CRUMPLE Dickson et al. 1954  
*Gossypium hirsutum*  
 Dickson, R.C., M. McD. Johnson and Edward F. Laird, 1954
- V. COTTON LEAF CURL Bailey 1934; Kirkpatrick 1931  
*Abutilon* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Althaea rosea*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium hirsutum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium peruvianum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium peruvianum* x *Gossypium barbadense*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium vitifolium*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Hibiscus cannabinus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Hibiscus esculentus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Hibiscus sabdariffa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Sida* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Urena lobata*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Zinnia elegans*  
 Mathur, R.N., 1933
- V. COTTON SMALL LEAF \*  
*Gossypium arboreum* var. *typicum* f. *indica* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. COTTON TEXAS \*  
*Gossypium hirsutum*  
 Rosberg, David W., 1957
- V. COTTON VEINAL MOSAIC \*  
*Gossypium barbadense*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium hirsutum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium klotzchianum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium punctatum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gossypium trilobum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. COWPEA MOSAIC  
*Canavalia ensiformis*  
 Anderson, C.W., 1955  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949  
*Canavalia gladiata*  
 Anderson, C.W., 1955  
*Cassia tora*  
 Anderson, C.W., 1954, 1955  
*Chenopodium ambrosioides* var. *anthelminticum*  
 Anderson, C.W., 1955  
*Crotalaria juncea*  
 Capoor, S.P. and P.M. Varma, 1956  
 Dale, W.T., 1949  
*Crotalaria mucronata*  
 Anderson, C.W., 1955

## VIRUS

## V. COWPEA MOSAIC (cont.)

- Crotalaria spectabilis*  
Anderson, C. W., 1955
- Cyamopsis tetragonoloba*  
Capoor, S.P. and P.M. Varma, 1956
- Desmodium frutescens*  
Dale, W. T., 1949
- Desmodium incanum*  
Anderson, C.W., 1955
- Dolichos lablab*  
Anderson, C. W., 1955  
Dale, W. T., 1949
- Glycine max*  
Anderson, C. W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W. T., 1949
- Phaseolus angularis*  
Yu, T.F., 1946
- Phaseolus aureus*  
Dale, W. T., 1949
- Phaseolus limensis*  
Anderson, C. W., 1955
- Phaseolus lunatus*  
Dale, W. T., 1949
- Phaseolus lunatus f. macrocarpus*  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W. T., 1949  
McLean, D.M., 1941  
Yu, T.F., 1946
- Phaseolus mungo*  
Dale, W. T., 1949
- Phaseolus trinervius*  
Dale, W. T., 1949
- Psophocarpus tetragonolobus*  
Dale, W. T., 1949
- Sesbania speciosa*  
Dale, W. T., 1949
- Vicia faba*  
Anderson, C. W., 1955
- Vigna cylindrica (Vigna catjang)*  
Capoor, S.P. and P.M. Varma, 1956  
Vasudeva, R. Sahai, 1942
- Vigna sesquipedalis*  
Capoor, S.P. and P.M. Varma, 1956
- Vigna sinensis*  
Anderson, C. W., 1955, 1957  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W. T., 1953  
McLean, D.M., 1941  
Yu, T.F., 1946
- Vigna unguiculata*  
Dale, W. T., 1949
- Vigna vexillata*  
Dale, W. T., 1949
- Zinnia elegans*  
Anderson, C. W., 1955
- V. CROTALARIA MOSAIC Johnson and Lefebvre 1938
- Crotalaria incana*  
Jensen, D.D., 1949, 1950  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria intermedia*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria juncea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Crotalaria lanceolata*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria maxillaris*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria mucronata*  
Jensen, D.D., 1949
- Crotalaria retusa*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria spectabilis*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria striata*  
Cook, Melville T., 1931  
Johnson, H.W. and C.L. Lefebvre, 1938
- Crotalaria usaramoensis*  
Johnson, H.W. and C.L. Lefebvre, 1938
- Vicia faba*  
Johnson, H.W. and C.L. Lefebvre, 1938

## VIRUS

## V. CRUCIFER RING SPOT \*

- Brassica oleracea var. acephala*  
Smith, Kenneth M., 1935
- Brassica oleracea var. capitata*  
Smith, Kenneth M., 1935
- Brassica oleracea var. gemmifera*  
Smith, Kenneth M., 1935
- Nicotiana glutinosa*  
Smith, Kenneth M., 1935
- Nicotiana langsdorffii*  
Smith, Kenneth M., 1935
- Nicotiana tabacum*  
Smith, Kenneth M., 1935
- V. CUCUMBER GREEN MOTTLE MOSAIC Ainsworth 1935 ((This virus is serologically related to V. tobacco mosaic and is generally regarded as a strain of it, but see Knight 1955))
- Citrullus vulgaris*  
Ainsworth, G.C., 1935
- Colocynthis vulgaris*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Cucumis anguria*  
Ainsworth, G.C., 1935
- Cucumis maderaspatanus*  
Ainsworth, G.C., 1935
- Cucumis melo*  
Ainsworth, G.C., 1935  
Azad, R.N., 1956
- Cucumis melo var. utilissimus \**  
Azad, R.N., 1956
- Cucumis sativus*  
Ainsworth, G.C., 1935  
Fulton, Robert W., 1950  
Johnson, Folke, 1941  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Cucurbita moschata*  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Cucurbita pepo*  
Ainsworth, G.C., 1935  
Storey, I.F., 1939
- Datura stramonium*  
Ainsworth, G.C., 1935  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Lagenaria siceraria (Lagenaria leucantha)*  
Azad, R.N., 1956  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Luffa acutangula*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Lycopersicon esculentum*  
Ainsworth, G.C., 1935
- Momordica charantia*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Nicotiana tabacum*  
Ainsworth, G.C., 1935  
Storey, I.F., 1939  
Vasudeva, R.S. and T.K. Nariani, 1952
- Solanum nigrum*  
Vasudeva, R.S. and T.K. Nariani, 1952
- Solanum nodiflorum*  
Vasudeva, R.S. and T.K. Nariani, 1952
- Spinacia oleracea*  
Storey, I.F., 1939
- Trichosanthes anguina*  
Azad, R.N., 1956
- V. CUCUMBER MOSAIC Doolittle 1916, 1920
- Adenia* spp.  
Nattrass, R.M., 1944
- Allium cepa*  
Wellman, F.L., 1935



## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Alternanthera ficoidea*  
Dale, W. T., 1954
- Amaranthus caudatus*  
Fulton, Joseph P., 1950  
Pound, Glenn S. and J. C. Walker, 1948  
Price, W. C., 1940
- Amaranthus tricolor*  
Price, W. C., 1940
- Ambrosia artemisiifolia* var. *elatiior*  
Wellman, F. L., 1935
- Ananas comosus*  
Carter, W., 1935
- Anethum graveolens*  
Wellman, F. L., 1935
- Anthemis cotula*  
Burnett, G., 1934
- Anthriscus cerefolium*  
Price, W. C., 1940
- Antirrhinum majus*  
Berkeley, G. H., 1951, 1953  
Brierley, Philip, 1952  
Doolittle, S. P. and W. J. Zaumeyer, 1953  
Hollings, M., 1955  
Nienow, Inez, 1948  
Pound, Glenn S. and J. C. Walker, 1948  
Wellman, F. L., 1935
- Apium graveolens*  
Anderson, C. W., 1955  
Bhargava, K. S., 1951  
Doolittle, S. P. and F. L. Wellman, 1934  
Doolittle, S. P. and W. J. Zaumeyer, 1953  
Fulton, Robert W., 1941  
Wellman, F. L., 1935
- Apium graveolens* var. *dulce*  
Anderson, C. W., 1951  
Severin, Henry H. P., 1950  
Simons, John N., 1955, 1957  
Wellman, F. L., 1934  
Whipple, O. C. and J. C. Walker, 1941
- Apium graveolens* var. *rapaceum*  
Wellman, F. L., 1935
- Aquilegia vulgaris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Asclepias curassavica*  
Silberschmidt, K., 1955
- Aster amellus*  
Pound, Glenn S. and J. C. Walker, 1948
- Atropa belladonna*  
Wellman, F. L., 1935
- Barbarea vulgaris*  
Pound, Glenn S. and J. C. Walker, 1948
- Benincasa hispida*  
Jagger, I. C., 1918
- Berberis thunbergii*  
Wilkinson, R. E., 1953
- Beta vulgaris*  
Anderson, C. W., 1951  
Bennett, C. W., 1944  
Berkeley, G. H. and J. H. Tremaine, 1954  
Bhargava, K. S., 1951  
Fulton, Joseph P., 1950  
Harrison, B. D., 1958  
Hoggan, I. A., 1933  
Johnson, E. M., 1930  
Severin, Henry H. P., 1948  
Wellman, F. L., 1934, 1935
- Beta vulgaris* var. *cicla*  
Berkeley, G. H. and J. H. Tremaine, 1954  
Bhargava, K. S., 1951  
Fulton, Joseph P., 1950  
Nienow, Inez, 1948  
Simons, John N., 1955, 1957  
Wellman, F. L., 1935
- Brassica campestris* var. *napobrassica*  
Berkeley, G. H. and J. H. Tremaine, 1954
- Brassica juncea* (*Brassica japonica*)  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica kaber* (*Brassica arvensis*)  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica napus*  
Berkeley, G. H. and J. H. Tremaine, 1954  
Pound, Glenn S. and J. C. Walker, 1948

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Brassica nigra*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica oleracea* var. *acephala*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica oleracea* var. *botrytis*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica oleracea* var. *capitata*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica oleracea* var. *gemmifera*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica oleracea* var. *gongylodes*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica pekinensis*  
Pound, Glenn S. and J. C. Walker, 1948
- Brassica rapa*  
Wellman, F. L., 1935
- Browallia speciosa*  
Price, W. C., 1940
- Bryonia dioica*  
Ainsworth, G. C., 1935
- Buddleia* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Cajanus indicus*  
Dale, W. T., 1949
- Calendula officinalis*  
Nienow, Inez, 1948  
Pound, Glenn S. and J. C. Walker, 1948  
Price, W. C., 1940
- Callistephus hortensis*  
Govier, D. A., 1957
- Calochortus* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Canna indica*  
Celino, Martin S., 1940  
Celino, M. S. and Aureo L. Martinez, 1956  
Magee, C. J. P., 1940
- Canna* spp.  
Ocfemia, G. O. and Martin S. Celino, 1938
- Capsella bursa-pastoris*  
Burnett, G., 1934  
Pound, Glenn S. and J. C. Walker, 1948
- Capsicum frutescens* (*Capsicum annum*)  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C. W., 1951, 1955, 1957  
Anderson, C. W. and M. K. Corbett, 1957  
Berkeley, G. H., 1951, 1953  
Doolittle, S. P., 1931  
Doolittle, S. P. and W. J. Zaumeyer, 1952, 1953  
Fulton, Robert W., 1941  
Harter, L. L., 1938  
Hoggan, Isme A., 1927  
Hollings, M., 1955  
Johnson, E. M., 1930  
Johnson, J., 1926, 1927  
Nariani, T. K. and Nirmaljit Singh, 1952  
Simons, John N., 1955, 1957  
Wellman, F. L., 1935  
Whipple, O. C. and J. C. Walker, 1941
- Capsicum frutescens* var. *cerasiforme*  
Pound, Glenn S. and J. C. Walker, 1948
- Capsicum frutescens* var. *conoides*  
Wellman, F. L., 1934
- Capsicum frutescens* var. *grosso*  
Wellman, F. L., 1934, 1935
- Catharanthus roseus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Celeri graveolens*  
Adsuar, Jose and A. Cruz Miret, 1950
- Celosia argentea* var. *cristata*  
Price, W. C., 1940
- Centaurea moschata*  
Price, W. C., 1940
- Chayota edulis*  
Wellman, F. L., 1935
- Cheiranthus allionii*  
Pound, Glenn S. and J. C. Walker, 1948
- Cheiranthus cheiri*  
Berkeley, G. H. and J. H. Tremaine, 1954
- Chenopodium album*  
Fulton, Joseph P., 1950
- Chenopodium amaranticolor*  
Harrison, B. D., 1958

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Chenopodium amaranticolor*  
Hollings, M., 1955, 1956
- Chenopodium hybridum*  
Roberts, Daniel A., 1952  
Roberts, Daniel A., R.E. Wilkinson and A. Frank  
Ross, 1951
- Chenopodium murale*  
Wellman, F.L., 1935
- Chrysanthemum carinatum*  
Govier, D.A., 1957
- Chrysanthemum hortorum*  
Graham, D.C., 1957
- Chrysanthemum morifolium*  
Hollings, M., 1955  
Whipple, O.C. and J.C. Walker, 1941
- Chrysanthemum segetum*  
Govier, D.A., 1957
- Chrysanthemum spp.*  
Govier, D.A., 1957  
Price, W.C., 1940
- Cichorium endivia*  
Price, W.C., 1940
- Citrullus citrullus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Citrullus vulgaris*  
Anderson, C.W., 1951  
Aycock, Robert, 1951  
Bhargava, K.S., 1951  
Jagger, I.C., 1918  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Porter, R.H., 1930  
Pound, Glenn S. and J.C. Walker, 1948  
Vasudeva, R. Sahai and T.B. Lal, 1943  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- Citrus medica*  
Porter, R.H., 1930
- Clarkia elegans*  
Price, W.C., 1940
- Cleome spinosa*  
Adsuar, Jose and A. Cruz Miret, 1950  
Faan, Hwei Chung and James Johnson, 1951  
Price, W.C., 1940
- Colchicum autumnale*  
Brierley, Philip and Floyd F. Smith, 1944
- Coleus blumei*  
Price, W.C., 1940
- Coleus lanuginosus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Commelina communis*  
Price, W.C., 1935  
Wellman, F.L., 1935
- Commelina diffusa*  
Dale, W.T., 1954
- Commelina elegans*  
Anderson, C.W., 1952  
Dale, W.T., 1954
- Commelina erecta*  
Wellman, F.L., 1935
- Commelina gigas*  
Anderson, C.W., 1951, 1952
- Commelina nudiflora*  
Anderson, C.W., 1952  
Price, W.C., 1941  
Wellman, F.L., 1934, 1935
- Commelina spp.*  
Simons, John N., 1957
- Convolvulus spp.*  
Wellman, F.L., 1935
- Crassina elegans*  
Adsuar, Jose and A. Cruz Miret, 1950
- Crotalaria intermedia*  
Price, W.C., 1940
- Crotalaria mucronata*  
Anderson, C.W., 1955
- Cucumis anguria*  
Jagger, I.C., 1918  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947  
Wellman, F.L., 1935
- Cucumis melo*  
Adsuar, Jose, 1955

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Cucumis melo*  
Adsuar, Jose and A. Cruz Miret, 1950  
Doolittle, S.P., 1916  
Jagger, I.C., 1918  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Pound, Glenn S. and J.C. Walker, 1948  
Vasudeva, R. Sahai and T.B. Lal, 1943  
Wellman, F.L., 1934, 1935
- Cucumis melo var. chito*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947
- Cucumis melo var. conomon*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947  
Whitaker, Thomas W. and G.W. Bohn, 1954
- Cucumis melo var. flexuosus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947
- Cucumis melo var. inodorus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947  
Whipple, O.C. and J.C. Walker, 1941
- Cucumis melo var. reticulatus*  
Anderson, C.W., 1952  
Aycock, Robert, 1951  
Freitag, J.H., 1952  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947  
Whipple, O.C. and J.C. Walker, 1941
- Cucumis sativus*  
Adsuar, Jose and A. Cruz Miret, 1950  
Ainsworth, G.C., 1938, 1940  
Anderson, C.W., 1951, 1952, 1955  
Aycock, Robert, 1951  
Berkeley, G.H., 1951, 1953  
Bhargava, K.S., 1951  
Brierley, Philip, 1939  
Burnett, G., 1934  
Cook, M.T., 1937  
Dale, W.T., 1954  
Diachun, Stephen, 1952  
Doolittle, S.P., 1916  
Doolittle, S.P. and M.N. Walker, 1928  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Elmer, O.H., 1927  
Freitag, J.H., 1952  
Fulton, Joseph P., 1950  
Fulton, Robert W., 1941  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Harter, L.L., 1936, 1938  
Hoggan, Isme A., 1933, 1935  
Hollings, M., 1955  
Jagger, I.C., 1916, 1918  
Johnson, E.M., 1930  
Larsh, Howard W. and J.R. Shay, 1945  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Magee, C.J.P., 1940  
Milbrath, J.A. and Roy A. Young, 1956  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Porter, Clark A., 1954  
Porter, R.H., 1928, 1929, 1930  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1934, 1937, 1941  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M.  
Hildebrand, 1947  
Shifriss, Oved, C.H. Myers and Charles Chupp,  
1942  
Silberschmidt, K., 1955  
Sill, Webster H., Jr., 1951  
Sill, W.H., Jr. and J.C. Walker, 1952  
Simons, John N., 1955, 1957  
Sinclair, J.B. and J.C. Walker, 1956  
Smith, Floyd F. and Philip Brierley, 1944  
Storey, I.F., 1939  
Valleau, W.D., 1932  
Varney, E.H. and J. Duain Moore, 1951  
Vasudeva, R. Sahai and T.B. Lal, 1943  
Walker, M.N., 1926  
Wellman, F.L., 1934, 1935

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Cucumis sativus*  
Whipple, O.C. and J.C. Walker, 1938, 1941
- Cucurbita lagenaria*  
Adsuar, Jose and A. Cruz Miret, 1950
- Cucurbita maxima*  
Anderson, C.W., 1952  
Aycock, Robert, 1951  
Jagger, I.C., 1918  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Magee, C.J.P., 1940  
Pound, Glenn S. and J.C. Walker, 1948  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
Wellman, F.L., 1935
- Cucurbita moschata*  
Adsuar, Jose and A. Cruz Miret, 1950  
Jagger, I.C., 1918  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Cucurbita pepo*  
Adsuar, Jose and A. Cruz Miret, 1950  
Jagger, I.C., 1916, 1918  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Pound, Glenn S. and J.C. Walker, 1948  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947  
Vasudeva, R. Sahai and T.B. Lal, 1943  
Wellman, F.L., 1935  
Whipple, O.C. and J.C. Walker, 1941
- Cucurbita pepo* var. *melopepo*  
Anderson, C.W., 1951  
Jagger, I.C., 1916  
Wellman, F.L., 1934, 1935
- Cucurbita pepo* var. *ovifera*  
Jagger, I.C., 1916
- Cuscuta campestris*  
Costa, A.S., 1944
- Cuscuta subinclusa*  
Bennett, C.W., 1940
- Cymbalaria muralis*  
Price, W.C., 1940
- Cynoglossum amabile*  
Fulton, Robert W., 1941  
Wellman, F.L., 1935
- Dahlia pinnata*  
Pound, Glenn S. and J.C. Walker, 1948
- Dahlia variabilis*  
Brierley, Philip, 1951
- Daphne mezereum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Daphne odora*  
Milbrath, J.A. and Roy A. Young, 1956
- Datura metel*  
Pound, Glenn S. and J.C. Walker, 1948
- Datura meteloides*  
Wellman, F.L., 1935
- Datura stramonium*  
Berkeley, G.H., 1951, 1953  
Bhargava, K.S., 1951  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Hollings, M., 1955  
Johnson, E.M., 1930  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Smith, Kenneth M., 1935  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- Daucus carota*  
Wellman, F.L., 1935
- Delphinium ajacis*  
Nienow, Inez, 1948
- Delphinium consolida*  
Wellman, F.L., 1935
- Delphinium cultorum*  
Valleau, W.D., 1932
- Delphinium formosum*  
Severin, Henry H.P., 1942

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Delphinium hybrid*  
Severin, Henry H.P., 1942
- Delphinium parryi* var. *maritimum*  
Severin, Henry H.P., 1942
- Delphinium* spp.  
Burnett, G., 1934
- Dipsacus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Dolichos lablab*  
Anderson, C.W., 1955
- Echinocystis lobata*  
Doolittle, S.P. and W.W. Gilbert, 1918
- Emilia sagittata*  
Wellman, F.L., 1934, 1935
- Ensete glaucum*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Eryngium aquaticum*  
Johnson, James, 1946  
Johnson, James and Edith M. Hein, 1948
- Erysimum cheiranthoides*  
Pound, Glenn S. and J.C. Walker, 1948
- Euchlaena mexicana*  
Wellman, F.L., 1934, 1935
- Euphorbia corollata*  
Faan, Hwei-Chung and James Johnson, 1951
- Euphorbia splendens*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Fagopyrum esculentum*  
Fulton, Robert W., 1941  
Wellman, F.L., 1935
- Foeniculum vulgare*  
Wellman, F.L., 1935
- Fritillaria pudica*  
Brierley, Philip and Floyd F. Smith, 1944
- Geranium carolinianum*  
Wellman, F.L., 1935
- Gilia capitata*  
Wellman, F.L., 1935
- Gilia liniflora*  
Price, W.C., 1940
- Gladiolus hortulanus*  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H., 1951  
Brierley, Philip, 1952
- Gladiolus* spp.  
Faan, Hwei-Chung and James Johnson, 1951
- Gloriosa rothschildiana*  
Brierley, Philip and Floyd F. Smith, 1944
- Glycine max*  
Hagedorn, D.J., 1950, 1952  
Hagedorn, D.J. and J.C. Walker, 1954
- Godetia amoena*  
Price, W.C., 1940
- Gomphrena globosa*  
Berkeley, G.H. and J.H. Tremain, 1954  
Doolittle, S.P. and W.J. Zaumeyer, 1953
- Helianthus debilis*  
Jagger, I.C., 1918
- Helichrysum bracteatum*  
Govier, D.A., 1957  
Price, W.C., 1940
- Heliotropium corymbosum*  
Price, W.C., 1940
- Heliotropium peruvianum*  
Price, W.C., 1940
- Hesperis matronalis*  
Berkeley, G.H. and J.H. Tremain, 1954  
Pound, Glenn S. and J.C. Walker, 1948
- Hibiscus esculentus*  
Fulton, Robert W., 1941
- Hibiscus manihot*  
Price, W.C., 1940
- Holcus sorghum*  
Wellman, F.L., 1934, 1935
- Hyacinthus orientalis*  
Ainsworth, G.C., 1938
- Hyoscyamus niger*  
Govier, D.A., 1957  
Hoggan, Isme A., 1927  
Johnson, James, 1927

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Impatiens balsamina*  
Price, W. C., 1940
- Impatiens sultani* (or sometimes *Impatiens holstii*)  
Adsuar, Jose, 1955
- Ipomoea batata*  
Wellman, F. L., 1935
- Ipomoea purpurea*  
Pound, Glenn S. and J. C. Walker, 1948  
Wellman, F. L., 1935
- Lactuca sativa*  
Anderson, C. W., 1955  
Hollings, M., 1955  
Kassanis, B., 1947  
Price, W. C., 1940
- Lactuca scariola*  
Burnett, G., 1934
- Lagenaria vulgaris*  
Jagger, I. C., 1918  
Vasudeva, R. Sahai and T. B. Lal, 1943
- Lathyrus odoratus*  
Ainsworth, G. C., 1940  
Doolittle, S. P. and W. J. Zaumeyer, 1952, 1953
- Lavatera trimestris*  
Price, W. C., 1940
- Leonurus cardiaca*  
Faan, Hwei-Chung and James Johnson, 1951
- Ligustrum* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Lilium auratum*  
Brierley, Philip, 1940  
Guterman, C. E. F., 1928  
Wellman, F. L., 1935
- Lilium brownii*  
Brierley, Philip, 1940
- Lilium canadense*  
Brierley, Philip, 1940
- Lilium candidum*  
Brierley, Philip, 1940
- Lilium croceum*  
Brierley, Philip, 1940
- Lilium formosanum* \*  
Brierley, Philip, 1939  
Brierley, Philip and S. P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium harrisi* (*Lilium longiflorum* var. *eximium*)  
Ainsworth, G. C., 1938  
Ogilvie, L. and C. E. F. Guterman, 1929
- Lilium longiflorum*  
Brierley, Philip, 1939  
Brierley, Philip and S. P. Doolittle, 1940  
McWhorter, F. P. and H. H. Millsap, 1954  
Porter, Clark A., 1954  
Price, W. C., 1937  
Smith, Floyd F. and Philip Brierley, 1948  
Wellman, F. L., 1935
- Lilium longiflorum* var. *formosum*  
Ainsworth, G. C., 1938
- Lilium monadelphum*  
Brierley, Philip, 1940
- Lilium regale*  
Brierley, Philip, 1940
- Lilium sargentiae*  
Brierley, Philip, 1940
- Lilium speciosum*  
Brierley, Philip, 1940  
Brierley, Philip and S. P. Doolittle, 1940
- Lilium speciosum* var. *rubrum*  
McWhorter, F. P. and H. H. Millsap, 1954
- Lilium* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Lilium superbum*  
Brierley, Philip, 1940
- Lilium tigrinum*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium umbellatum*  
Brierley, Philip, 1940
- Lilium wallacei*  
Brierley, Philip, 1940
- Lobelia gracilis*  
Jagger, I. C., 1918

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Lobelia tenuior*  
Price, W. C., 1940
- Lobularia maritima*  
Pound, Glenn S. and J. C. Walker, 1948  
Price, W. C., 1940
- Luffa acutangula*  
Adsuar, Jose and A. Cruz Miret, 1950
- Luffa* spp.  
Jagger, I. C., 1918
- Lupinus angustifolius*  
Whipple, O. C. and J. C. Walker, 1941
- Lupinus hartwegii*  
Whipple, O. C. and J. C. Walker, 1941
- Lychnis alba*  
Faan, Hwei-Chung and James Johnson, 1951  
Price, W. C., 1940
- Lychnis chalconica*  
Price, W. C., 1940
- Lychnis viscaria*  
Wellman, F. L., 1935
- Lycopersicon esculentum*  
Ainsworth, G. C., 1940  
Anderson, C. W., 1951, 1955  
Berkeley, G. H., 1951, 1953  
Bhargava, K. S., 1951  
Bridgmon, G. H. and J. C. Walker, 1952  
Burnett, G., 1934  
Doolittle, S. P. and L. J. Alexander, 1936, 1951  
Doolittle, S. P. and W. J. Zaumeyer, 1953  
Fulton, Joseph P., 1950  
Fulton, Robert W., 1941  
Govier, D. A., 1957  
Harrison, B. D., 1958  
Harter, L. L., 1938  
Heuberger, J. W. and J. B. S. Norton, 1933  
Hoggan, Isme A., 1927, 1935  
Hollings, M., 1955  
Johnson, E. M., 1930  
Johnson, J., 1926, 1927  
Johnson, James and Edith M. Hein, 1948  
Larsh, Howard W. and J. R. Shay, 1945  
Magee, C. J. P., 1940  
Mogendorff, N., 1930  
Nariani, T. K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Pound, Glenn S. and J. C. Walker, 1948  
Price, W. C., 1934  
Selman, Ireson W., 1941  
Severin, Henry H. P., 1950  
Simons, John N., 1955  
Storey, I. F., 1939  
Valleau, W. D., 1932  
Valleau, W. D. and E. M. Johnson, 1930  
Wellman, F. L., 1934, 1935  
Whipple, O. C. and J. C. Walker, 1941
- Lycopersicon esculentum* var. *grandifolium*  
Mogendorff, N., 1930
- Lycopersicon lycopersicon* \*  
Adsuar, Jose and A. Cruz Miret, 1950
- Lythrum salicaria*  
Price, W. C., 1940
- Maranta arundinaceae*  
Celino, M. S. and Aureo L. Martinez, 1956
- Marrubium vulgare*  
Burnett, G., 1934
- Matthiola incana*  
Berkeley, G. H. and J. H. Tremaine, 1954
- Matthiola incana* var. *annua*  
Pound, Glenn S. and J. C. Walker, 1948
- Melilotus alba*  
Doolittle, S. P. and W. J. Zaumeyer, 1952, 1953
- Melilotus officinalis*  
Hagedorn, D. J., 1950  
Hagedorn, D. J. and J. C. Walker, 1954  
Whipple, O. C. and J. C. Walker, 1941
- Melothria guadalupensis*  
Adsuar, Jose and A. Cruz Miret, 1950
- Melothria scabra*  
Jagger, I. C., 1918
- Mertensia virginica*  
Nienow, Inez, 1948

- VIRUS
- V. CUCUMBER MOSAIC (cont.)
- Mesembryanthemum crystallinum*  
Wellman, F.L., 1935
- Mimulus moschatus*  
Price, W.C., 1940
- Mollugo verticillata*  
Faan, Hwei-Chung and James Johnson, 1951
- Momordica balsamina*  
Jagger, I.C., 1918
- Momordica chariata*  
Simons, John N., 1957  
Vasudeva, R. Sahai and T.B. Lal, 1943
- Musa banksii*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Musa cavendishii*  
Magee, C.J.P., 1940  
Wellman, F.L., 1934, 1935
- Musa ensete*  
Magee, C.J.P., 1940
- Musa paradisiaca* subsp. *sapientum*  
Castillo, Bernardo S., 1952  
Magee, C.J.P., 1940  
Wellman, F.L., 1934, 1935
- Musa textilis*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
Calinisan, Melanio R., 1938, 1940  
Celino, M.S. and Aureo L. Martinez, 1955, 1956  
Lawas, Orencio M. and William L. Fernandez, 1949  
Magee, C.J.P., 1940  
Ocfemia, G.O. and Martin S. Celino, 1938  
Ocfemia, G.O., Martin S. Celino and Feliciano J. Garcia, 1947
- Musa textilis* x *Musa balbisiana*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Musa textilis* x *Musa banksii*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Myosotis sylvatica*  
Price, W.C., 1940
- Nasturtium officinale* (*Rorippa nasturtium-aquaticum*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nemesia strumosa*  
Price, W.C., 1940
- Nicandra physalodes*  
Burnett, G., 1934  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Pound, Glenn S. and J.C. Walker, 1948  
Wellman, F.L., 1935
- Nicotiana affinis*  
Govier, D.A., 1957
- Nicotiana alata*  
Price, W.C., 1941
- Nicotiana bigelovii* var. *quadrivalvis* \*  
Price, W.C., 1940, 1941
- Nicotiana glauca*  
Hoggan, Isme A., 1927  
Johnson, J., 1926, 1927  
Nariani, T.K. and Nirmaljit Singh, 1952  
Price, W.C., 1941
- Nicotiana glutinosa*  
Adsuar, Jose and A. Cruz Miret, 1950  
Ainsworth, G.C., 1935, 1940  
Anderson, C.W., 1951, 1955  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951, 1953  
Berkeley, G.H. and J.H. Tremaine, 1954  
Bhargava, K.S., 1951  
Black, L.M. and W.C. Price, 1940  
Bridgmon, G.H. and J.C. Walker, 1952  
Costa, A.S., 1944  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Fulton, Robert W., 1941  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Hoggan, Isme A., 1927, 1935  
Johnson, J., 1926, 1927  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Nariani, T.K. and Nirmaljit Singh, 1952
- VIRUS
- V. CUCUMBER MOSAIC (cont.)
- Nicotiana glutinosa*  
Nienow, Inez, 1948  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1934, 1941  
Roberts, Daniel A., 1952  
Silberschmidt, K., 1955  
Sill, W.H., Jr. and J.C. Walker, 1952  
Simons, John N., 1955, 1957  
Smith, Kenneth M., 1935  
Storey, I.F., 1939  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- Nicotiana langsdorffii*  
Price, W.C., 1934  
Smith, Kenneth M., 1935
- Nicotiana paniculata*  
Govier, D.A., 1957
- Nicotiana repanda*  
Nienow, Inez, 1948
- Nicotiana rustica*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Govier, D.A., 1957  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Pound, Glenn S. and J.C. Walker, 1948
- Nicotiana sanderae*  
Wellman, F.L., 1935
- Nicotiana sylvestris*  
Govier, D.A., 1957  
Nienow, Inez, 1948  
Wellman, F.L., 1935
- Nicotiana tabacum*  
Adsuar, Jose and A. Cruz Miret, 1950  
Ainsworth, G.C., 1938, 1940  
Anderson, C.W., 1951, 1955  
Bennett, C.W., 1944  
Berkeley, G.H., 1951, 1953  
Berkeley, G.H. and J.H. Tremaine, 1954  
Bhargava, K.S., 1951  
Black, L.M. and W.C. Price, 1940  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip, 1939, 1940, 1951  
Brierley, Philip and S.P. Doolittle, 1940  
Burnett, G., 1934  
Costa, A.S., 1944  
Diachun, Stephen, 1952  
Doncaster, J.P. and B. Kassanis, 1946  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Dykstra, T.P., 1939  
Fulton, Joseph P., 1950  
Fulton, Robert W., 1941, 1953  
Govier, D.A., 1957  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Harter, L.L., 1936, 1938  
Hoggan, Isme A., 1927, 1930, 1933, 1934, 1935  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927, 1933  
Kassanis, B., 1947  
Larsh, Howard W. and J.R. Shay, 1945  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Magee, C.J.P., 1940  
McKinney, H.H., 1943  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Nolla, J.A.B., 1934  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1934, 1936, 1937, 1941  
Silberschmidt, K., 1955  
Sill, Webster H., Jr., 1951  
Sill, W.H., Jr. and J.C. Walker, 1952  
Simons, John N., 1955, 1957  
Smith, Floyd F. and Philip Brierley, 1944  
Smith, Kenneth M., 1935  
Valleau, W.D., 1935  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1938, 1941  
Wilkinson, R.E., 1953
- Nicotiana tabacum* x *Nicotiana glutinosa*  
Bridgmon, G.H. and J.C. Walker, 1952  
Sill, W.H., Jr. and J.C. Walker, 1952

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Passiflora alba*  
McKnight, T., 1953
- Passiflora caerulea*  
Natrass, R.M., 1944
- Passiflora edulis*  
McKnight, T., 1953  
Natrass, R.M., 1944
- Passiflora edulis f. flavicarpa* \*  
McKnight, T., 1953
- Passiflora foetida*  
McKnight, T., 1953
- Passiflora ligularis*  
Natrass, R.M., 1944
- Passiflora suberosa*  
McKnight, T., 1953
- Passiflora subpeltata*  
Natrass, R.M., 1944
- Pastinaca sativa*  
Wellman, F.L., 1935
- Pelargonium hortorum* (X P. zonale)  
Wellman, F.L., 1935
- Penstemon* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Petroselinum hortense*  
Wellman, F.L., 1935
- Petunia hybrida*  
Berkeley, G.H., 1953  
Berkeley, G.H. and J.H. Tremaine, 1954  
Burnett, G., 1934  
Dale, W.T., 1954  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Govier, D.A., 1957  
Harrison, B.D., 1958  
Harter, L.L., 1938  
Nariani, T.K. and Nirmaljit Singh, 1952  
Nienow, Inez, 1948  
Pound, Glenn S. and J.C. Walker, 1948  
Wellman, F.L., 1935
- Petunia violacea*  
Hoggan, Isme A., 1927  
Johnson, J., 1926, 1927
- Phacelia tanacetifolia*  
Wellman, F.L., 1935
- Phacelia whitlavia* (*Whitlavia grandiflora*)  
Wellman, F.L., 1934, 1935
- Phaseolus acutifolius* var. *latifolius*  
Doolittle, S.P. and W.J. Zaumeyer, 1953
- Phaseolus aureus*  
Price, W.C., 1940
- Phaseolus calcaratus*  
Doolittle, S.P. and W.J. Zaumeyer, 1953
- Phaseolus limensis*  
Anderson, C.W., 1955  
Harter, L.L., 1936  
Thomas, H. Rex, W.J. Zaumeyer and Hans Jorgensen, 1951
- Phaseolus lunatus*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Whipple, O.C. and J.C. Walker, 1941
- Phaseolus lunatus f. macrocarpus*  
Harter, L.L., 1938  
Pryor, Dean E. and Robert E. Wester, 1946
- Phaseolus vulgaris*  
Anderson, C.W., 1955  
Berkeley, G.H., 1951  
Bhargava, K.S., 1951  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Fulton, Joseph P., 1950  
Hagedorn, D.J., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, B.D., 1958  
Hollings, M., 1955  
Silberschmidt, K., 1955  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Whipple, O.C. and J.C. Walker, 1938, 1941
- Phlox drummondii*  
Faan, Hwei-Chung and James Johnson, 1951  
Govier, D.A., 1957  
Pound, Glenn S. and J.C. Walker, 1948  
Wellman, F.L., 1935
- Phlox paniculata*  
Faan, Hwei-Chung and James Johnson, 1951

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Physalis alkekengi*  
Wellman, F.L., 1935
- Physalis angulata*  
Adsuar, Jose and A. Cruz Miret, 1950  
Wellman, F.L., 1935
- Physalis floridana*  
Ross, A. Frank, 1950, 1953
- Physalis franchetti*  
Hoggan, Isme A., 1927
- Physalis heterophylla*  
Walker, M.N., 1925
- Physalis heterophylla* var. *nyctaginea*  
Johnson, E.M., 1930
- Physalis lagascae*  
Wellman, F.L., 1934, 1935
- Physalis peruviana*  
Govier, D.A., 1957  
Holmes, Francis O., 1942  
Simons, John N., 1957  
Wellman, F.L., 1935
- Physalis pubescens*  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927  
Pound, Glenn S. and J.C. Walker, 1948  
Walker, M.N., 1925, 1926  
Wellman, F.L., 1934, 1935
- Physalis* spp.  
Wellman, F.L., 1935
- Physalis subglabrata*  
Walker, M.N., 1925
- Phytolacca americana*  
Harter, L.L., 1938  
Wellman, F.L., 1935
- Phytolacca decandra*  
Diachun, Stephen, 1952  
Hoggan, Isme A., 1935  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927
- Phytolacca esculenta*  
Bhargava, K.S., 1951
- Phytolacca rigida*  
Wellman, F.L., 1935
- Pisum sativum*  
Ainsworth, G.C., 1940  
Anderson, C.W., 1955  
Berkeley, G.H., 1951  
Bhargava, K.S., 1951  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Fulton, Joseph P., 1950  
Hagedorn, D.J., 1950, 1952  
Hagedorn, D.J. and J.C. Walker, 1954  
Pound, Glenn S. and J.C. Walker, 1948  
Whipple, O.C. and J.C. Walker, 1938, 1941
- Polanisia trachysperma*  
Price, W.C., 1940
- Polemonium caeruleum*  
Faan, Hwei-Chung and James Johnson, 1951
- Portulaca grandiflora*  
Price, W.C., 1940
- Primula obconica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Govier, D.A., 1957  
Severin, Henry H.P. and C.M. Tompkins, 1950  
Smith, Kenneth M., 1935
- Primula sinensis*  
Govier, D.A., 1957  
Smith, Kenneth M., 1935
- Rubus idaeus*  
Harrison, B.D., 1958
- Raphanus sativus*  
Berkeley, G.H. and J.H. Tremaine, 1954
- Reseda odorata*  
Pound, Glenn S. and J.C. Walker, 1948
- Rheum rhaponticum*  
Price, W.C., 1940
- Rudbeckia* spp.  
Faan, Hwei-Chung and James Johnson, 1951
- Ruellia tuberosa*  
Adsuar, Jose and A. Cruz Miret, 1950
- Rumex crispus*  
Price, W.C., 1940

## VIRUS

- V. CUCUMBER MOSAIC (cont.)  
*Salpiglossis sinuata*  
 Price, W.C., 1940  
*Salvia patens*  
 Faan, Hwei-Chung and James Johnson, 1951  
*Salvia splendens*  
 Price, W.C., 1940  
*Scabiosa atropurpurea*  
 Wellman, F.L., 1935  
*Scabiosa japonica*  
 Price, W.C., 1940  
*Schizanthus wisetonensis*  
 Price, W.C., 1940  
*Secale cereale*  
 Wellman, F.L., 1934, 1935  
*Sicana odorifera*  
 Adsuar, Jose and A. Cruz Miret, 1950  
*Sisymbrium officinale*  
 Pound, Glenn S. and J.C. Walker, 1948  
*Solanum atropurpureum* \*  
 Hoggan, Isme A., 1927  
*Solanum aviculare*  
 Wellman, F.L., 1935  
*Solanum caribaeum*  
 Adsuar, Jose and A. Cruz Miret, 1950  
*Solanum carolinense*  
 Johnson, E.M., 1930  
*Solanum gracile* \*  
 Anderson, C.W., 1955  
 Simons, John N., 1957  
*Solanum integrifolium*  
 Pound, Glenn S. and J.C. Walker, 1948  
*Solanum laciniatum*  
 Hoggan, Isme A., 1927  
*Solanum melongena*  
 Adsuar, Jose and A. Cruz Miret, 1950  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Fulton, Robert W., 1941  
 Harter, L.L., 1938  
 Hoggan, Isme A., 1935  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Simons, John N., 1957  
 Wellman, F.L., 1935  
*Solanum melongena* var. *esculentum*  
 Johnson, E.M., 1930  
*Solanum miniatum*  
 Hoggan, Isme A., 1927  
*Solanum nigrum*  
 Burnett, G., 1934  
 Fulton, Robert W., 1941  
 Govier, D.A., 1957  
 Hoggan, Isme A., 1935  
 Johnson, J., 1926  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Wellman, F.L., 1935  
*Solanum nodiflorum*  
 Govier, D.A., 1957  
 Nariani, T.K. and Nirmaljit Singh, 1952  
 Price, W.C., 1940  
*Solanum torvum*  
 Adsuar, Jose and A. Cruz Miret, 1950  
*Solanum triflorum*  
 Pound, Glenn S. and J.C. Walker, 1948  
*Solanum tuberosum*  
 Johnson, James, 1927  
*Sparaxis* spp.  
 Smith, Floyd F. and Philip Brierley, 1944  
*Spinacia oleracea*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Cheo, Pen-Ching and Glenn S. Pound, 1952  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Fulton, Joseph P., 1950  
 Fulton, Robert W., 1941  
 Govier, D.A., 1957  
 Hoggan, I.A., 1930, 1933, 1935  
 Larsh, Howard W. and J.R. Shay, 1945  
 McClintock, J.A. and Loren B. Smith, 1918  
 Nienow, Inez, 1948  
 Pound, Glenn S. and Pen-Ching Cheo, 1952  
 Price, W.C., 1934  
 Wellman, F.L., 1935  
 Whipple, O.C. and J.C. Walker, 1941

## VIRUS

- V. CUCUMBER MOSAIC (cont.)  
*Stellaria media*  
 Burnett, G., 1934  
*Tacsonia* spp.  
 Natrass, R.M., 1944  
*Tagetes erecta*  
 Wellman, F.L., 1935  
*Tagetes patula*  
 Nienow, Inez, 1948  
 Wellman, F.L., 1934, 1935  
*Tetragonia expansa*  
 Hollings, M., 1955  
 Wellman, F.L., 1935  
*Thlaspi arvense*  
 Pound, Glenn S. and J.C. Walker, 1948  
*Tradescantia* spp.  
 Wellman, F.L., 1935  
*Trichosanthes anguina*  
 Jagger, I.C., 1918  
 Nariani, T.K. and Nirmaljit Singh, 1952  
*Trifolium hybridum*  
 Hagedorn, D.J., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
*Trifolium incarnatum*  
 Brierley, Philip and Floyd F. Smith, 1944  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Hagedorn, D.J., 1950, 1952  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Price, W.C., 1940  
*Trifolium pratense*  
 Hagedorn, D.J., 1950, 1952  
 Hagedorn, D.J. and J.C. Walker, 1954  
*Trifolium repens*  
 Hagedorn, D.J., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
*Trigonella foenum-graecum*  
 Hagedorn, D.J., 1952  
*Triticum aestivum*  
 Wellman, F.L., 1934, 1935  
*Tropaeolum majus*  
 Govier, D.A., 1957  
 Wellman, F.L., 1935  
*Tulipa gesneriana*  
 Ainsworth, G.C., 1938  
 Brierley, Philip, 1941  
 Brierley, Philip and S.P. Doolittle, 1940, 1944  
 Porter, Clark A., 1954  
 Smith, Floyd F. and Philip Brierley, 1944  
*Valeriana officinalis*  
 Faan, Hwei-Chung and James Johnson, 1951  
*Verbascum phoeniceum*  
 Price, W.C., 1940  
*Verbesina encelioides*  
 Brierley, Philip, 1951  
*Veronica longifolia*  
 Price, W.C., 1940  
*Vicia faba*  
 Anderson, C.W., 1955  
 Costa, A.S., 1944  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
 Hagedorn, D.J., 1950  
 Harter, L.L., 1938  
 Milbrath, J.A. and Roy A. Young, 1956  
 Porter, Clark A., 1954  
 Wellman, F.L., 1934, 1935  
 Whipple, O.C. and J.C. Walker, 1941  
*Vicia faba* var. *minor*  
 Hagedorn, D.J. and J.C. Walker, 1954  
*Vigna sesquipedalis*  
 Doolittle, S.P. and W.J. Zaumeyer, 1953  
*Vigna sinensis*  
 Anderson, C.W., 1955, 1957  
 Anderson, C.W. and M.K. Corbett, 1957  
 Bhargava, K.S., 1951  
 Bridgmon, G.H. and J.C. Walker, 1952  
 Costa, A.S., 1944  
 Diachun, Stephen, 1952  
 Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
 Fulton, Joseph P., 1950  
 Hagedorn, D.J., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Harter, L.L., 1938  
 Hollings, M., 1955

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Vigna sinensis*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Milbrath, J.A. and Roy A. Young, 1956  
Nienow, Inez, 1948  
Price, W.C., 1934, 1935  
Silberschmidt, K., 1955  
Sill, Webster H., Jr., 1951  
Sill, W.H., Jr. and J.C. Walker, 1952  
Sinclair, J.B. and J.C. Walker, 1954, 1955, 1956  
Smith, Kenneth M., 1935  
Whipple, O.C. and J.C. Walker, 1941
- Vigna unguiculata*  
Adsuar, Jose and A. Cruz Miret, 1950
- Vinca rosea*  
Anderson, C.W. and M.K. Corbett, 1957  
Fulton, Robert W., 1953  
Wellman, F.L., 1935
- Viola cornuta*  
Severin, Henry H.P., 1947
- Viola tricolor* var. *hortensis*  
Severin, Henry H.P., 1947
- Zaluzianskya villosa*  
Price, W.C., 1940
- Zea mays*  
Bhargava, K.S., 1951  
Bridgmon, G.H., 1951  
Bridgmon, G.H. and J.C. Walker, 1952  
Celino, M.S. and Aureo L. Martinez, 1955, 1956  
Celino, M.S. and G.O. Ocfemia, 1941  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Lawas, Orencio M. and William L. Fernandez, 1949  
McWhorter, F.P. and H.H. Millsap, 1954  
Price, W.C., 1935  
Wellman, F.L., 1934, 1935
- Zea mays* var. *everta*  
Harter, L.L., 1938
- Zea mays* var. *rugosa* \*  
Fulton, Joseph P., 1950  
Pound, Glenn S. and J.C. Walker, 1948
- Zebrina pendula*  
Wellman, F.L., 1935
- Zinnia elegans*  
Ainsworth, G.C., 1938  
Anderson, C.W., 1951, 1955  
Berkeley, G.H. and J.H. Tremaine, 1954  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip, 1951, 1952  
Burnett, G., 1934  
Doolittle, S.P. and W.J. Zaumeyer, 1952, 1953  
Fulton, Joseph P., 1950  
Fulton, Robert W., 1941  
Harter, L.L., 1938  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Nienow, Inez, 1948  
Pound, Glenn S. and J.C. Walker, 1948  
Price, W.C., 1935, 1937, 1939, 1941  
Simons, John N., 1957  
Sinclair, J.B. and J.C. Walker, 1956  
Smith, Floyd F. and Philip Brierley, 1944  
Wellman, F.L., 1934, 1935  
Whipple, O.C. and J.C. Walker, 1941
- Zinnia elegans* var. *dahliiflora* \*  
Govier, D.A., 1957

## V. (CUCUMBER O.S.C. ISOLATE 606 \*

- Cucumis sativus*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Echinocystis oregana*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Lilium longiflorum*  
Porter, Clark A. and Frank P. McWhorter, 1951

## V. CUCUMBER WESTERN MOSAIC \*

- Apium graveolens* var. *dulce*  
Severin, Henry H.P., 1950  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Beta vulgaris*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Beta vulgaris* var. *cicla*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Cucumis anguria*  
Severin, Henry H.P. and Julius H. Freitag, 1948

## VIRUS

## V. CUCUMBER WESTERN MOSAIC \* (cont.)

- Cucumis melo* var. *inodorus*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Cucumis sativus*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Cucurbita maxima*  
Freitag, J.H., 1941
- Delphinium cardinale*  
Severin, Henry H.P., 1942
- Delphinium formosum*  
Severin, Henry H.P., 1942
- Delphinium grandiflorum* var. *album*  
Severin, Henry H.P., 1942
- Delphinium hybrid*  
Severin, Henry H.P., 1942
- Delphinium spp.*  
Severin, Henry H.P., 1942
- Delphinium zailii*  
Severin, Henry H.P., 1942
- Lactuca sativa*  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Lycopersicon esculentum*  
Severin, Henry H.P., 1950  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Phlox drummondii*  
Severin, Henry H.P., 1943
- Primula obconica*  
Severin, Henry H.P. and C.M. Tompkins, 1950
- Spinacia oleracea*  
Severin, Henry H.P., 1948  
Severin, Henry H.P. and Julius H. Freitag, 1948
- Tetragonia expansa*  
Severin, Henry H.P., 1948
- Viola cornuta*  
Severin, Henry H.P., 1947
- Viola tricolor* var. *hortensis*  
Severin, Henry H.P., 1947
- V. CUCURBIT MOSAIC \*
- Amaranthus retroflexus*  
Doolittle, S.P., 1921  
Doolittle, S.P. and M.N. Walker, 1925
- Asclepias syriaca*  
Doolittle, S.P., 1921  
Doolittle, S.P. and M.N. Walker, 1922, 1924, 1925
- Benincasa cerifera*  
Doolittle, S.P. and M.N. Walker, 1925
- Benincasa hispida*  
Doolittle, S.P. and M.N. Walker, 1925
- Bryonopsis laciniosa*  
Doolittle, S.P. and M.N. Walker, 1925
- Capsicum frutescens* (*Capsicum annuum*)  
Doolittle, S.P., 1921  
Doolittle, S.P. and M.N. Walker, 1925
- Citrullus vulgaris*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis anguria*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis ficifolius*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis grossulariaeformis* \*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis melo*  
Doolittle, S.P. and M.N. Walker, 1925  
Kendrick, J.B., 1934
- Cucumis melo* var. *dudaim*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis melo* var. *glexuosus*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis melo* var. *utilissimus* \*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis metuliferus*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis odoratissimus*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucumis sativus*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucurbita maxima*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucurbita moschata*  
Doolittle, S.P. and M.N. Walker, 1925
- Cucurbita pepo*  
Doolittle, S.P. and M.N. Walker, 1925



- VIRUS
- V. CUCURBIT MOSAIC \* (cont.)
- Cucurbita pepo* var. *melopepo*  
Doolittle, S. P. and M. N. Walker, 1925  
Kendrick, J. B., 1934
- Cucurbita pepo* var. *ovifera*  
Doolittle, S. P. and M. N. Walker, 1925
- Ecballium elaterium*  
Doolittle, S. P. and M. N. Walker, 1925
- Echinocystis lobata*  
Doolittle, S. P., 1921  
Doolittle, S. P. and W. W. Gilbert, 1919  
Doolittle, S. P. and M. N. Walker, 1924, 1925
- Lagenaria siceraria* (*Lagenaria leucantha*)  
Doolittle, S. P. and M. N. Walker, 1925
- Lagenaria vulgaris*  
Doolittle, S. P. and M. N. Walker, 1925
- Luffa acutangula*  
Doolittle, S. P. and M. N. Walker, 1925
- Luffa aegyptiaca* (*Luffa cylindrica*)  
Doolittle, S. P. and M. N. Walker, 1925
- Martynia louisiana*  
Doolittle, S. P., 1921  
Doolittle, S. P. and M. N. Walker, 1925
- Momordica charantia*  
Doolittle, S. P. and M. N. Walker, 1925
- Momordica involucrata*  
Doolittle, S. P. and M. N. Walker, 1925
- Nepeta cataria*  
Doolittle, S. P. and M. N. Walker, 1925
- Physalis heterophylla*  
Walker, M. N., 1924
- Physalis pubescens*  
Walker, M. N., 1924
- Physalis* spp.  
Doolittle, S. P. and M. N. Walker, 1924
- Physalis subglabrata*  
Walker, M. N., 1924
- Phytolacca americana*  
Doolittle, S. P. and M. N. Walker, 1922
- Phytolacca decandra*  
Doolittle, S. P. and M. N. Walker, 1924, 1925
- Sicyos angulatus*  
Doolittle, S. P. and M. N. Walker, 1925
- Solanum tuberosum*  
Doolittle, S. P. and M. N. Walker, 1922
- Trichosanthes anguina*  
Doolittle, S. P. and M. N. Walker, 1925
- V. CUCURBIT RING MOSAIC \*
- Cucurbita maxima*  
Freitag, J. H., 1941
- V. CYNARUS CURLY DWARF
- Centaurea cyanus*  
Morton, Donald J., 1957
- Cynara cardunculus*  
Leach, L. D. and J. W. Oswald, 1950
- Cynara scolymus*  
Leach, L. D. and J. W. Oswald, 1950  
Morton, Donald J., 1957
- Silybum marianum*  
Leach, L. D. and J. W. Oswald, 1950
- Zinnia elegans*  
Leach, L. D. and J. W. Oswald, 1950  
Morton, Donald J., 1957
- V. DAHLIA MOSAIC Brierley 1933
- Coreopsis douglasii*  
Brierley, Philip and Floyd F. Smith, 1950
- Dahlia variabilis*  
Brierley, Philip, 1933, 1951  
Brierley, Philip and Floyd F. Smith, 1950
- Sanvitalia procumbens*  
Brierley, Philip and Floyd F. Smith, 1950
- Verbesina encelioides*  
Brierley, Philip, 1951  
Brierley, Philip and Floyd F. Smith, 1950
- Zinnia elegans*  
Brierley, Philip, 1951  
Brierley, Philip and Floyd F. Smith, 1950
- VIRUS
- V. DANDELION YELLOW MOSAIC Kassanis 1944
- Chenopodium amaranticolor*  
Hollings, M., 1956
- Lactuca sativa*  
Doncaster, J. P. and B. Kassanis, 1946  
Kassanis, B., 1947
- Lactuca serriola*  
Kassanis, B., 1947
- Lactuca virosa*  
Kassanis, B., 1947
- Taraxacum officinale*  
Kassanis, B., 1947
- V. DATURA DISTORTION MOSAIC Capoor and Varma 1952
- Capsicum frutescens* (*Capsicum annum*)  
Capoor, S. P. and P. M. Varma, 1952
- Datura chlorantha*  
Capoor, S. P. and P. M. Varma, 1952
- Datura innoxia*  
Capoor, S. P. and P. M. Varma, 1952
- Datura metel*  
Capoor, S. P. and P. M. Varma, 1952
- Datura metel* var. *fastuosa* \*  
Capoor, S. P. and P. M. Varma, 1952
- Datura stramonium*  
Capoor, S. P. and P. M. Varma, 1952
- Lycopersicon esculentum*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana glauca*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana glutinosa*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana rustica*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana sylvestris*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana tabacum*  
Capoor, S. P. and P. M. Varma, 1952
- Nicotiana tabacum* x *Nicotiana glutinosa*  
Capoor, S. P. and P. M. Varma, 1952
- Petunia hybrida*  
Capoor, S. P. and P. M. Varma, 1952
- Tetragonia expansa*  
Capoor, S. P. and P. M. Varma, 1952
- V. DATURA RUGOSE LEAF CURL Grylls 1954; K. M. Smith 1957
- Crotalaria* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Datura stramonium*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Datura stramonium* var. *tatula*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Daucus carota* var. *sativa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Lycopersicon esculentum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Malva parviflora*  
Grylls, N. E., 1955
- Medicago lupulina*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Medicago sativa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Nicandra physalodes*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Pastinaca sativa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Physalis floridana*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Polygonum aviculare*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Sanguisorba minor*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Sonchus oleraceus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Trifolium pratense*  
Grylls, N. E., 1955
- Trifolium repens*  
Grylls, N. E., 1955
- Urtica urens*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## VIRUS

## V. DELPHINIUM DISEASE \*

*Nicotiana tabacum*  
Valleau, W. D., 1932

## V. DELPHINIUM RING SPOT Severin and Dickson 1942

*Beta vulgaris*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Cucumis sativus*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Datura stramonium*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Delphinium hybrid*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Gossypium hirsutum*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Nicotiana alata* var. *grandiflora*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Nicotiana glutinosa*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Nicotiana rustica* var. *humilis* \*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Nicotiana tabacum*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Petunia hybrida*  
Severin, Henry H. P. and R. C. Dickson, 1942  
*Ranunculus asiaticus*  
Severin, Henry H. P. and R. C. Dickson, 1942

## V. DOCK MOSAIC Grainger and Cockerham 1930

*Chenopodium amaranticolor*  
Hollings, M., 1956  
*Rumex lanceolatus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Rumex obtusifolius*  
Fernow, Karl Hermann, 1925  
*Rumex sanguineus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. DODDER LATENT MOSAIC Bennett 1944

*Apium graveolens*  
Bennett, C. W., 1944, 1949  
*Beta vulgaris*  
Bennett, C. W., 1944, 1949  
*Brassica adpressa*  
Bennett, C. W., 1949  
*Brassica incana* \*  
Bennett, C. W., 1944  
*Chenopodium album*  
Bennett, C. W., 1944  
*Chenopodium murale*  
Bennett, C. W., 1944  
*Cucumis melo*  
Bennett, C. W., 1949  
*Cucumis melo* var. *rockyford*  
Bennett, C. W., 1944  
*Cuscuta californica*  
Bennett, C. W., 1944, 1949  
*Cuscuta campestris*  
Bennett, C. W., 1944, 1949  
*Cuscuta subinclusa*  
Bennett, C. W., 1944  
*Fagopyrum esculentum*  
Bennett, C. W., 1944  
*Lycopersicon esculentum*  
Bennett, C. W., 1944, 1949  
*Nicotiana glauca*  
Bennett, C. W., 1944, 1949  
*Nicotiana glutinosa*  
Bennett, C. W., 1949  
*Nicotiana palmeri*  
Bennett, C. W., 1944  
*Nicotiana rustica*  
Bennett, C. W., 1944, 1949  
*Nicotiana rustica* var. *jamaicensis* \*  
Bennett, C. W., 1944  
*Nicotiana rustica* var. *pumila* \*  
Bennett, C. W., 1944  
*Nicotiana tabacum*  
Bennett, C. W., 1944, 1949  
*Phytolacca americana*  
Bennett, C. W., 1944, 1949  
*Plantago major*  
Bennett, C. W., 1944

## VIRUS

## V. DODDER LATENT MOSAIC (cont.)

*Polygonum pennsylvanicum*  
Bennett, C. W., 1944  
*Samolus floribundus*  
Bennett, C. W., 1944  
*Solanum tuberosum*  
Bennett, C. W., 1944, 1949

## V. EGGPLANT MOSAIC Ferguson 1951

*Capsicum frutescens* (*Capsicum annuum*)  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Chenopodium hybridum*  
Dale, W. T., 1954  
*Cucumis sativus*  
Dale, W. T., 1954  
*Lycopersicon esculentum*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Lycopersicon pimpinellifolium*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Nicotiana glutinosa*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Nicotiana tabacum*  
Dale, W. T., 1954  
*Petunia hybrida*  
Dale, W. T., 1954  
*Physalis floridana*  
Dale, W. T., 1954  
*Solanum melongena*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Solanum tuberosum*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Vigna unguiculata*  
Dale, W. T., 1954

## V. ELM MOSAIC Swingle et al. 1941

*Cucumis sativus*  
Varney, E. H. and J. Duain Moore, 1952  
*Nepeta cataria*  
Varney, E. H. and J. Duain Moore, 1952  
*Nicotiana tabacum*  
Moore, J. Duain and E. H. Varney, 1954  
Varney, E. H. and J. Duain Moore, 1952  
*Phaseolus vulgaris*  
Varney, E. H. and J. Duain Moore, 1952  
*Physalis heterophylla*  
Varney, E. H. and J. Duain Moore, 1952  
*Pisum sativum*  
Varney, E. H. and J. Duain Moore, 1952  
*Prunus avium*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus besseyi*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus cerasus*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus domestica*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus mahaleb*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus pensylvanica*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Prunus persica*  
Moore, J. Duain and E. H. Varney, 1954  
*Prunus serotina*  
Callahan, Kemper L. and J. Duain Moore, 1957  
*Ulmus americana*  
Bretz, T. W., 1950  
Callahan, Kemper L., 1957  
Moore, J. Duain and E. H. Varney, 1954  
Swingle, R. U., P. E. Tilford and Charles F. Irish, 1941, 1943  
Varney, E. H. and J. Duain Moore, 1952  
*Vigna sinensis*  
Varney, E. H. and J. Duain Moore, 1952

## V. ELM PHLOEM NECROSIS Swingle 1938

*Ulmus americana*  
McLean, D. M., 1944

- VIRUS
- V. ELM PHLOEM NECROSIS (cont.)  
*Ulmus americana*  
 Swingle, Roger U., 1938, 1940  
 Swingle, Roger U., B.S. Meyer and Curtis May, 1945  
*Ulmus fulva* x *Ulmus pumila*  
 Swingle, Roger U., B.S. Meyer and Curtis May, 1945
- V. ELM ZONATE CANCKER Swingle and Bretz 1950  
*Ulmus americana*  
 Swingle, Roger U. and T.W. Bretz, 1950
- V. ERYNGIUM CHLOROSIS \*  
*Nicotiana tabacum*  
 Johnson, James, 1946
- V. ERYNGIUM YELLOW MOSAIC \*  
*Eryngium aquaticum*  
 Johnson, James, 1946  
 Johnson, James and Edith M. Hein, 1948  
*Nicotiana tabacum*  
 Johnson, James and Edith M. Hein, 1948
- V. EUONYMUS INFECTIOUS VARIEGATION Brierley  
*Euonymus fortunei* var. *radicans* 1944  
 Woods, M.W. and H.G. DuBuy, 1943
- V. EUPHORBIA MOSAIC Costa and Bennett 1950  
*Datura stramonium*  
 Costa, A.S. and C.W. Bennett, 1950  
*Euphorbia prunifolia*  
 Costa, A.S. and C.W. Bennett, 1950  
*Fagopyrum esculentum*  
 Costa, A.S. and C.W. Bennett, 1950  
*Nicandra physalodes*  
 Costa, A.S. and C.W. Bennett, 1950  
*Oxalis* spp.  
 Costa, A.S. and C.W. Bennett, 1950  
*Phyllanthus corcovadensis*  
 Costa, A.S. and C.W. Bennett, 1950
- V. FIG MOSAIC Condit and Horne 1933  
*Ficus altissima*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Ficus carica*  
 Condit, I.J. and W.T. Horne, 1933, 1941, 1943  
 Flock, R.A. and J.M. Wallace, 1955  
*Ficus carica* var. *sylvestris* \*  
 Condit, Ira J. and W.T. Horne, 1943  
*Ficus krishna*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Ficus pseudocarica*  
 Condit, I.J. and W.T. Horne, 1933  
*Ficus tsida* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. FILAREE RED LEAF Frazier 1951  
*Erodium botrys*  
 Frazier, Norman W., 1951  
*Erodium chamaedryoides* var. *roseum* \*  
 Anderson, Chris W., 1952  
*Erodium cicutarium*  
 Anderson, Chris W., 1951  
 Frazier, Norman W., 1951  
*Erodium moschatum*  
 Anderson, Chris W., 1951  
 Frazier, Norman W., 1951  
*Fragaria bracteata*  
 Anderson, Chris W., 1952  
*Geranium dissectum*  
 Frazier, Norman W., 1951  
*Geranium molle*  
 Anderson, Chris W., 1952  
*Pelargonium domesticum*  
 Anderson, Chris W., 1952  
*Trifolium incarnatum*  
 Anderson, Chris W., 1952  
*Zea mays*  
 Anderson, Chris W., 1952
- VIRUS
- V. (FLOWERING) CHERRY ROUGH BARK Milbrath and  
*Prunus avium* Zeller 1942  
 Nichols, Carl W. and R.L. McClain, 1957  
*Prunus persica*  
 Nichols, Carl W. and R.L. McClain, 1957  
*Prunus serrulata*  
 Milbrath, J.A. and S.M. Zeller, 1942  
 Nichols, Carl W. and R.L. McClain, 1957
- V. FREESIA MOSAIC Woodward in K.M. Smith 1957  
*Freesia* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. GLADIOLUS \*  
*Gladiolus hortulanus*  
 Snow, Gordon F., 1955  
*Phaseolus vulgaris*  
 Snow, Gordon F., 1955  
*Trifolium hybridum*  
 Snow, Gordon F., 1955  
*Trifolium subterraneum*  
 Snow, Gordon F., 1955  
*Vicia faba*  
 Snow, Gordon F., 1955
- V. GOOSEBERRY VEINBANDING Posnette 1952  
*Ribes grossularia*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. GRASS NATAL MOSAIC \*  
*Saccharum officinarum*  
 Storey, H.H., 1929  
*Setaria sulcata*  
 Storey, H.H., 1929  
*Sorghum arundinaceum*  
 Storey, H.H., 1929  
*Zea mays*  
 Storey, H.H., 1929
- V. GRASS ORCHARD MOSAIC \*  
*Avena sativa*  
 McKinney, H.H., 1956  
*Dactylis glomerata*  
 McKinney, H.H., 1956
- V. GROUNDNUT MOSAIC Thung 1947  
*Arachis hypogaea*  
 Cooper, W.E., 1950
- V. GROUNDNUT ROSETTE Storey and Bottomley 1928  
*Arachis hypogaea*  
 Evans, A.C., 1954  
 McKinney, H.H., 1929  
 Storey, H.H. and A.M. Bottomley, 1928  
 Storey, H.H. and A.K. Ryland, 1955, 1957  
*Brachystegia burttii*  
 Evans, A.C., 1954  
*Cajanus cajan*  
 Evans, A.C., 1954  
*Cassia absus*  
 Evans, A.C., 1954  
*Crotalaria fwamboensis*  
 Evans, A.C., 1954  
*Crotalaria intermedia*  
 Evans, A.C., 1954  
*Crotalaria kirkii*  
 Evans, A.C., 1954  
*Dalbergia melanoxylon*  
 Evans, A.C., 1954  
*Dichrostachys nyassana*  
 Evans, A.C., 1954  
*Dolichos fulcatus* \*  
 Evans, A.C., 1954  
*Dolichos malosanus*  
 Evans, A.C., 1954  
*Indigofera rhynchocarpa*  
 Evans, A.C., 1954  
*Milletia makondensis*  
 Evans, A.C., 1954  
*Rhynchosia resinosa*  
 Evans, A.C., 1954

## VIRUS

- V. GROUNDNUT ROSETTE (cont.)  
*Strychnos subifera*  
 Evans, A.C., 1954  
*Talinum cafferum*  
 Evans, A.C., 1954  
*Vigna reticulata*  
 Evans, A.C., 1954  
*Vigna triloba*  
 Evans, A.C., 1954  
*Vigna unguiculata*  
 Evans, A.C., 1954
- V. GROUNDNUT WITCHES' BROOM Thung 1947  
*Arachis hypogaea*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. HENBANE MOSAIC K.M. Smith 1957  
*Atropa belladonna*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Chenopodium amaranticolor*  
 Hollings, M., 1956  
*Datura stramonium*  
 Bradley, R.H.E., 1952  
 Hamilton, Marion A., 1932  
*Hyoscyamus niger*  
 Hamilton, Marion A., 1932  
 Watson (Hamilton), Marion A., 1937  
*Lycopersicon esculentum*  
 Hamilton, Marion A., 1932  
*Nicotiana glauca*  
 Hamilton, Marion A., 1932  
*Nicotiana glutinosa*  
 Hamilton, Marion A., 1932  
 Hollings, M., 1955  
*Nicotiana rustica*  
 Bradley, R.H.E., 1952  
*Nicotiana tabacum*  
 Bawden, F.C., Brenda M.G. Hamlyn and Marion  
 A. Watson, 1954  
 Bradley, R.H.E., 1952  
 Doncaster, J.P. and B. Kassanis, 1946  
 Hamilton, Marion A., 1932  
 Sheffield, F.M.L., 1936, 1938  
 Watson (Hamilton), Marion A., 1937  
*Petunia* spp.  
 Hamilton, Marion A., 1932
- V. HIBISCUS RING SPOT \*  
*Hibiscus rosa-sinensis*  
 Jensen, D.D., 1949
- V. HIBISCUS YELLOW VEIN MOSAIC Capoor and Varma  
 1950  
*Althaea rosea*  
 Capoor, S.P. and P.M. Varma, 1950  
*Hibiscus abelmoschus*  
 Capoor, S.P. and P.M. Varma, 1950  
*Hibiscus cannabinus*  
 Capoor, S.P. and P.M. Varma, 1950  
*Hibiscus esculentus*  
 Capoor, S.P. and P.M. Varma, 1950  
 Varma, P.M., 1952  
*Hibiscus palustris* (*Hibiscus moscheutos*)  
 Capoor, S.P. and P.M. Varma, 1950  
*Hibiscus sabdariffa*  
 Capoor, S.P. and P.M. Varma, 1950  
*Hibiscus tetraphyllus*  
 Capoor, S.P. and P.M. Varma, 1950
- V. HIBISCUS YELLOWS \*  
*Hibiscus abelmoschus*  
 Hendrix, J. Walter, 1950  
*Hibiscus arnottianus*  
 Hendrix, J. Walter, 1950  
*Hibiscus rosa-sinensis*  
 Hendrix, J. Walter, 1950
- V. HOLLYHOCK MOSAIC K.M. Smith 1957  
*Althaea rosea*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Malva* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## VIRUS

- V. HOLODISCUS WITCHES' BROOM K.M. Smith 1957  
*Holodiscus discolor*  
 Zeller, S.M., 1931
- V. (HONEYSUCKLE) MOTTLE \*  
*Lonicera brachypoda* var. *foliis aureo-reticulatis* \*  
 Corp, V.H., 1949  
*Lonicera japonica*  
 Corp, V.H., 1949
- V. HOP CHLOROTIC DISEASE Salmon and Ware 1930  
*Humulus lupulus*  
 Salmon, E.S. and W.M. Ware, 1930, 1932, 1935
- V. HOP MOSAIC Salmon 1923  
*Humulus lupulus*  
 Cheal, W.F., 1929  
 Mackenzie, D., E.S. Salmon, W.M. Ware and R.  
 Williams, 1929  
 Salmon, E.S. and W.M. Ware, 1928, 1932  
 Thrupp, T.C., 1927
- V. HOP NETTLE HEAD ((Duffield 1925)) Salmon and  
 Ware 1930  
*Humulus lupulus*  
 Blattny, C. and V. Vukolov  
 Keyworth, W.G. and D.L.G. Davies, 1946
- V. HOP SPLIT LEAF BLOTCH Keyworth 1951  
*Humulus lupulus*  
 Keyworth, W.G., 1951
- V. HYDRANGAEA \*  
*Hydrangea macrophylla*  
 Brierley, Philip, 1954
- V. HYDRANGAEA DIE BACK \*  
*Hydrangea macrophylla*  
 Brierley, Philip and Floyd F. Smith, 1952
- V. HYDRANGAEA RING SPOT Brierley and Smith 1952  
*Amaranthus retroflexus*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*Antirrhinum majus*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*Beta vulgaris*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*Callistephus chinensis*  
 Brierley, Philip and Floyd F. Smith, 1952  
*Chenopodium album*  
 Brierley, Philip and Paul Lorentz, 1957  
*Chenopodium amaranticolor*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 Hollings, M., 1957  
*Cucumis sativus*  
 Brierley, Philip and Paul Lorentz, 1957  
 Brierley, Philip and Floyd F. Smith, 1952  
*Dianthus barbatus*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*Gomphrena globosa*  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
*Hydrangea macrophylla*  
 Brierley, Philip, 1957  
 Brierley, Philip and Paul Lorentz, 1956, 1957  
 Brierley, Philip and Floyd F. Smith, 1952  
*Nicotiana tabacum*  
 Brierley, Philip and Floyd F. Smith, 1952  
*Zinnia elegans*  
 Brierley, Philip and Floyd F. Smith, 1952
- V. (IPOMOEAE) MOSAIC \*  
*Ipomoea nil*  
 Cook, Melville T., 1931
- V. IRIS BEARDED MOSAIC \*  
*Belamcanda chinensis*  
 Brierley, Philip and Floyd F. Smith, 1948  
 Travis, R.V., 1957  
*Gladiolus hortulanus*  
 Brierley, Philip and Floyd F. Smith, 1948
- V. IRIS BEARDLESS MOSAIC \*  
*Belamcanda chinensis*  
 Travis, R.V., 1957

- VIRUS
- V. IRIS FULVA MOSAIC \*  
*Belamcanda chinensis*  
 Travis, R. V., 1957
- V. IRIS MOSAIC Brierley and McWhorter 1936  
*Chenopodium amaranticolor*  
 Hollings, M., 1956  
*Gladiolus hortulanus*  
 Brierley, Philip and Floyd F. Smith, 1948  
*Iris filifolia*  
 Brierley, Philip and Frank P. McWhorter, 1936  
*Iris ricardi* \*  
 Brierley, Philip and Frank P. McWhorter, 1936  
*Iris tingitana*  
 Brierley, Philip and Frank P. McWhorter, 1936  
*Iris unguicularis* var. *alba*  
 Brierley, Philip and Frank P. McWhorter, 1936  
*Iris xiphioides*  
 Brierley, P. and F. P. McWhorter, 1934  
*Iris xiphium*  
 Brierley, Philip and Frank P. McWhorter, 1936  
*Iris xiphium praecox* \*  
 Brierley, Philip and Frank P. McWhorter, 1936
- V. IRIS RING SPOT \*  
*Amaranthus retroflexus*  
 Travis, R. V., 1957  
*Chenopodium amaranticolor*  
 Travis, R. V., 1957  
*Cyamopsis tetragonoloba*  
 Travis, R. V., 1957  
*Gomphrena globosa*  
 Travis, R. V., 1957  
*Nicotiana tabacum*  
 Travis, R. V., 1957  
*Phaseolus vulgaris*  
 Travis, R. V., 1957  
*Physalis angulata*  
 Travis, R. V., 1957
- V. IRIS SPURIA MOSAIC \*  
*Belamcanda chinensis*  
 Brierley, Philip and Floyd F. Smith, 1948  
*Iris aurea*  
 Brierley, Philip and Floyd F. Smith, 1948  
*Iris spuria*  
 Brierley, Philip and Floyd F. Smith, 1948
- V. IXIA MOSAIC Smith and Brierley 1944  
*Ixia* spp.  
 Smith, Floyd F. and Philip Brierley, 1944  
*Tritonia crocata*  
 Smith, Floyd F. and Philip Brierley, 1944
- V. JATROPHA MOSAIC \*  
*Jatropha gossypifolia*  
 Bird, Julio, 1957  
*Jatropha multifida*  
 Bird, Julio, 1957  
*Nicotiana tabacum*  
 Bird, Julio, 1957
- V. JIMSONWEED MOSAIC \*  
*Datura meteloides*  
 Fernow, Karl Hermann, 1925  
*Datura stramonium*  
 Fernow, Karl Hermann, 1925
- V. KAIMI CLOVER DISEASE \*  
*Crotalaria* spp.  
 Murakishi, Harry H., 1952  
*Desmodium canum*  
 Murakishi, Harry H., 1952  
*Glycine max*  
 Murakishi, Harry H., 1952  
*Phaseolus lunatus*  
 Murakishi, Harry H., 1952  
*Phaseolus vulgaris*  
 Murakishi, Harry H., 1952  
*Trifolium subterraneum*  
 Murakishi, Harry H., 1952  
*Vigna sinensis*  
 Murakishi, Harry H., 1952
- VIRUS
- V. LABURNUM INFECTIOUS VARIEGATION Brierley  
*Laburnum anagyroides* 1944  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Laburnum vosii* \*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Laburnum vulgare*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Lespedeza formosa*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. LABURNUM VEIN MOSAIC \*  
*Gladiolus hortulanus*  
 Brierley, Philip and Floyd F. Smith, 1954  
*Laburnum alpinum*  
 Brierley, Philip and Floyd F. Smith, 1954  
*Laburnum watereri*  
 Brierley, Philip and Floyd F. Smith, 1954  
*Nicotiana tabacum*  
 Brierley, Philip and Floyd F. Smith, 1954  
*Phaseolus vulgaris*  
 Brierley, Philip and Floyd F. Smith, 1954
- V. (LEGUME) LITTLE LEAF DISEASE \*  
*Aeschynomene falcata*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Astragalus glycyphyllos*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Cajanus cajan*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria goreensis*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria grahamiana*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria intermedia*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria juncea*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria orixensis*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria pumila*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria retusa*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Crotalaria sericea*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Datura stramonium*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Daucus carota*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Desmodium batocaulon*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Desmodium canum*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Desmodium gangeticum*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Desmodium scorpiurus*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Desmodium uncinatum*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Dolichos striatus*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Indigofera endecaphylla*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Indigofera retroflexa*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Indigofera* spp.  
 Hutton, E. M. and N. E. Grylls, 1956  
*Indigofera subulata*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Indigofera tettensis*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Lathyrus sylvestris*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Lotononis bainesii*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Lycopersicon esculentum*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Malva parviflora*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Medicago sativa*  
 Hutton, E. M. and N. E. Grylls, 1956  
*Rhynchosia hagenbeckii*  
 Hutton, E. M. and N. E. Grylls, 1956

## VIRUS

## V. (LEGUME) LITTLE LEAF DISEASE \* (cont.)

- Rhynchosia minima*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes bojeri*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes erecta*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes gracilis*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes guianensis*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes leiocarpa*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes montevidensis*  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes* spp.  
Hutton, E. M. and N. E. Grylls, 1956
- Stylosanthes sundaica*  
Hutton, E. M. and N. E. Grylls, 1956
- Tephrosia* spp.  
Hutton, E. M. and N. E. Grylls, 1956
- Trifolium pratense*  
Hutton, E. M. and N. E. Grylls, 1956
- Trifolium repens*  
Hutton, E. M. and N. E. Grylls, 1956
- Trifolium subterraneum*  
Hutton, E. M. and N. E. Grylls, 1956
- V. (LEGUME) WESTERN RING SPOT \*  
*Pisum sativum*  
McWhorter, Frank P., 1954
- V. LEMON WOOD POCKET \*  
*Citrus limon*  
Fawcett, H. S. and E. C. Calavan, 1947
- V. LETTUCE BIG VEIN Jagger and Chandler 1934  
*Lactuca sativa*  
Allen, M. W., 1948  
Doolittle, S. P. and Ross C. Thompson, 1945  
Pryor, Dean E., 1946  
Thompson, Ross C., S. P. Doolittle and Floyd F. Smith, 1944
- V. LETTUCE MOSAIC Jagger 1921 Ainsworth and  
Chenopodium amaranticolor Ogilvie 1939  
Hollings, M., 1957  
*Chenopodium urticum*  
Wilkinson, R. E. and Ursula Hirsch, 1952  
*Cichorium intybus*  
Grogan, R. G., J. E. Welch and Roy Bardin, 1952  
*Gomphrena globosa*  
Couch, Houston B., 1954, 1955  
Wilkinson, R. E. and Ursula Hirsch, 1952  
*Lactuca sativa*  
Ainsworth, G. C. and L. Ogilvie, 1939  
Broadbent, L., T. W. Tinsley, W. Buddin and E. T. Roberts, 1951  
Couch, Houston B., 1954, 1955  
Doncaster, J. P. and B. Kassanis, 1946  
Grogan, R. G., J. E. Welch and Roy Bardin, 1952  
Jagger, Ivan C., 1920-21  
Jones, Leon K., 1944  
Kassanis, B., 1947  
Newhall, A. G., 1923  
Selman, Ireson W., 1945  
Sylvester, Edward S., 1954, 1955  
*Lactuca sativa* var. *capitata*  
Ainsworth, G. C., 1940  
Ainsworth, G. C. and L. Ogilvie, 1939  
*Lactuca sativa* var. *romana*  
Ainsworth, G. C. and L. Ogilvie, 1939  
*Lactuca serriola*  
Grogan, R. G., J. E. Welch and Roy Bardin, 1952  
Kassanis, B., 1947  
*Lactuca virosa*  
Kassanis, B., 1947  
*Lathyrus odoratus*  
Ainsworth, G. C., 1940  
Ainsworth, G. C. and L. Ogilvie, 1939  
*Pisum sativum*  
Ainsworth, G. C., 1940  
Ainsworth, G. C. and L. Ogilvie, 1939

## VIRUS

## V. LETTUCE MOSAIC (cont.)

- Rumex britannica*  
Newhall, A. G., 1923  
*Senecio vulgaris*  
Ainsworth, G. C. and L. Ogilvie, 1939  
*Sonchus asper*  
Ainsworth, G. C. and L. Ogilvie, 1939  
*Tagetes erecta*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Zinnia elegans*  
Grogan, R. G., J. E. Welch and Roy Bardin, 1952
- V. LILAC RING MOSAIC Protsenko et al. 1950  
*Syringa vulgaris*  
Beale, J. H. and Helen Purdy Beale, 1952
- V. LILAC WITCHES' BROOM Lorentz and Brierley 1953  
*Ligustrum obtusifolium* var. *regelianum*  
Lorentz, Paul and Philip Brierley, 1953  
*Syringa japonica*  
Brierley, Philip, 1955  
Lorentz, Paul and Philip Brierley, 1953  
*Syringa vulgaris*  
Brierley, Philip, 1955  
Lorentz, Paul and Philip Brierley, 1953  
*Vinca rosea*  
Brierley, Philip, 1955
- V. LILY COLOR ADDING \*  
*Lilium henryi* x *Lilium myriophyllum* var. *superbum* \*  
McWhorter, Frank P., 1956  
*Narcissus poeticus*  
McWhorter, F. P., 1932
- V. LILY COLOR REMOVING \*  
*Lilium henryi* x *Lilium myriophyllum* var. *superbum* \*  
McWhorter, Frank P., 1956  
*Narcissus poeticus*  
McWhorter, F. P., 1932
- V. LILY RING SPOT Smith 1950 ((May be V. cucumber  
*Lilium regale* mosaic (str.))  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Lilium tigrinum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. LILY ROSETTE Ogilvie 1928  
*Lilium batemaniae*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Lilium brownii* var. *leucanthemum*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium dauricum*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium davidi*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium davidi* var. *willmottiae* \*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium elegans*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium formosanum* \*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium harrisi*  
Ogilvie, Lawrence, 1928  
*Lilium henryi*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium longiflorum*  
Brierley, Philip and Floyd F. Smith, 1944, 1945,  
1954  
Smith, Floyd F. and Philip Brierley, 1948  
*Lilium longiflorum* var. *takeshima*  
Ogilvie, Lawrence, 1928  
*Lilium myriophyllum* var. *superbum* \*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium regale*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium sargentiae*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium speciosum*  
Brierley, Philip and Floyd F. Smith, 1945  
*Lilium umbellatum*  
Brierley, Philip and Floyd F. Smith, 1945

## VIRUS

- V. LILY SYMPTOMLESS Brierley and Smith 1944  
*Lilium formosanum*  
 Brierley, Philip, 1940  
*Lilium longiflorum*  
 Brierley, Philip, 1940  
 Brierley, Philip and S.P. Doolittle, 1940, 1944  
 Porter, Clark A., 1954  
*Tulipa gesneriana*  
 Brierley, Philip, 1940, 1941
- V. LOVAGE MOSAIC Smith and Markham 1944  
*Arabis hirsuta*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Capsicum frutescens* (*Capsicum annuum*)  
 Smith, Kenneth M. and Roy Markham, 1944  
*Cucumis sativus*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Datura stramonium*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Lavatera trimestris*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Ligusticum scoticum*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Lycopersicon esculentum*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana glutinosa*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana langsdorffii*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana rustica*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana sylvestris*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana tabacum*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Phaseolus vulgaris*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Pisum sativum*  
 Smith, Kenneth M. and Roy Markham, 1944
- V. LUCERNE DWARF
- Acacia longifolia*  
 Freitag, J.H., 1951  
*Amsinckia douglasiana*  
 Freitag, J.H., 1951  
*Artemisia vulgaris* var. *heterophylla*  
 Freitag, J.H., 1951  
*Avena fatua*  
 Freitag, J.H., 1951  
*Baccharis pilularis*  
 Freitag, J.H., 1951  
*Bromus catharticus*  
 Freitag, J.H., 1951  
*Bromus rigidus*  
 Freitag, J.H., 1951  
*Bromus* spp.  
 Freitag, J.H., 1951  
*Callistephus chinensis*  
 Freitag, J.H., 1951  
*Canna* spp.  
 Freitag, J.H., 1951  
*Chenopodium ambrosioides*  
 Freitag, J.H., 1951  
*Coprosma baueri*  
 Freitag, J.H., 1951  
*Cotoneaster rotundifolia* var. *lanata*  
 Freitag, J.H., 1951  
*Crotalaria intermedia*  
 Price, W.C., 1940  
*Cynodon dactylon*  
 Freitag, J.H., 1951  
*Cyperus esculentus*  
 Freitag, J.H., 1951  
*Cytisus scoparius*  
 Freitag, J.H., 1951  
*Daucus carota* var. *saucina*  
 Freitag, J.H., 1951  
*Digitaria sanguinalis*  
 Freitag, J.H., 1951  
*Echinochloa crus-galli*  
 Freitag, J.H., 1951  
*Epilobium californicum*  
 Freitag, J.H., 1951

## VIRUS

- V. LUCERNE DWARF (cont.)  
*Epilobium paniculatum*  
 Freitag, J.H., 1951  
*Eragrostis diffusa*  
 Freitag, J.H., 1951  
*Erodium cicutarium*  
 Freitag, J.H., 1951  
*Escallonia montevidensis*  
 Freitag, J.H., 1951  
*Eugenia myrtifolia*  
 Freitag, J.H., 1951  
*Festuca megalura*  
 Freitag, J.H., 1951  
*Franseria acanthicarpa*  
 Freitag, J.H., 1951  
*Fraxinus dipetala*  
 Freitag, J.H., 1951  
*Fuchsia magellanica*  
 Freitag, J.H., 1951  
*Godetia grandiflora*  
 Freitag, J.H., 1951  
*Hedera helix*  
 Freitag, J.H., 1951  
*Holcus halepensis*  
 Freitag, J.H., 1951  
*Holcus sudanensis*  
 Freitag, J.H., 1951  
*Hordeum murinum*  
 Freitag, J.H., 1951  
*Hordeum vulgare*  
 Freitag, J.H., 1951  
*Hydrangea paniculata*  
 Freitag, J.H., 1951  
*Lactuca scariola*  
 Freitag, J.H., 1951  
*Lathyrus cicera*  
 Freitag, J.H., 1951  
*Lathyrus clymenum*  
 Freitag, J.H., 1951  
*Lathyrus sativus*  
 Freitag, J.H., 1951  
*Lolium multiflorum*  
 Freitag, J.H., 1951  
*Lolium temulentum*  
 Freitag, J.H., 1951  
*Lonicera japonica*  
 Freitag, J.H., 1951  
*Majorana hortensis*  
 Freitag, J.H., 1951  
*Medicago falcata*  
 Houston, Byron R. and Ernest H. Stanford, 1954  
*Medicago glutinosa*  
 Houston, Byron R. and Ernest H. Stanford, 1954  
*Medicago hispida*  
 Freitag, J.H., 1951  
*Medicago sativa*  
 Frazier, Norman W. and J.H. Freitag, 1946  
 Freitag, J.H., 1951  
 Freitag, J.H. and Norman W. Frazier, 1954  
 Freitag, J.H., N.W. Frazier and R.A. Flock, 1952  
 Hewitt, Wm. B., Byron R. Houston, Norman W. Frazier and J.H. Freitag, 1946  
 Houston, Byron R., Katherine Esau and Wm. B. Hewitt, 1946  
 Houston, Byron R., N.W. Frazier and Wm. B. Hewitt, 1942  
 Houston, Byron R. and Ernest H. Stanford, 1954  
 Severin, Henry H.P., 1949  
 Stoner, Warren N., 1953  
 Weimer, J.L., 1936  
*Melilotus alba*  
 Freitag, J.H., 1951  
*Melilotus alba* var. *annua*  
 Freitag, J.H., 1951  
*Melilotus indica*  
 Freitag, J.H., 1951  
*Melilotus officinalis*  
 Freitag, J.H., 1951  
*Melissa officinalis*  
 Freitag, J.H., 1951  
*Mentha* spp.  
 Freitag, J.H., 1951

## VIRUS

## V. LUCERNE DWARF (cont.)

- Oenanthe sarmentosa*  
Freitag, J.H., 1951
- Oenothera hookeri*  
Freitag, J.H., 1951
- Parthenocissus tricuspidata*  
Freitag, J.H., 1951
- Paspalum dilatatum*  
Freitag, J.H., 1951
- Pelargonium hortorum*  
Freitag, J.H., 1951
- Pennisetum clandestinum*  
Freitag, J.H., 1951
- Phalaris minor*  
Freitag, J.H., 1951
- Phalaris paradoxa*  
Freitag, J.H., 1951
- Phleum pratense*  
Freitag, J.H., 1951
- Photinia arbutifolia*  
Freitag, J.H., 1951
- Pittosporum crassifolium*  
Freitag, J.H., 1951
- Poa annua*  
Freitag, J.H., 1951
- Polygonum convolvulus*  
Freitag, J.H., 1951
- Polygonum persicaria*  
Freitag, J.H., 1951
- Reseda odorata*  
Freitag, J.H., 1951
- Rheum rhaponticum*  
Freitag, J.H., 1951
- Rhus diversiloba*  
Freitag, J.H., 1951
- Rosa californica*  
Freitag, J.H., 1951
- Rosmarinus officinalis*  
Freitag, J.H., 1951
- Rubus ursinus* var. *vitifolius*  
Freitag, J.H., 1951
- Rumex crispus*  
Freitag, J.H., 1951
- Salix* spp.  
Freitag, J.H., 1951
- Sambucus caerulea*  
Freitag, J.H., 1951
- Setaria lutescens*  
Freitag, J.H., 1951
- Sonchus asper*  
Freitag, J.H., 1951
- Symphoricarpos albus*  
Freitag, J.H., 1951
- Syringa vulgaris*  
Freitag, J.H., 1951
- Trifolium fragiferum*  
Freitag, J.H., 1951
- Trifolium hybridum*  
Freitag, J.H., 1951
- Trifolium incarnatum*  
Freitag, J.H., 1951
- Trifolium pratense*  
Freitag, J.H., 1951
- Trifolium repens*  
Freitag, J.H., 1951
- Trifolium repens* var. *latum* \*  
Freitag, J.H., 1951
- Urtica gracilis* var. *holosericea*  
Freitag, J.H., 1951
- Veronica* spp.  
Freitag, J.H., 1951
- Vicia monantha*  
Freitag, J.H., 1951
- Vinca major*  
Freitag, J.H., 1951
- Vitis californica*  
Freitag, J.H., 1951  
Severin, Henry H.P., 1949
- Vitis vinifera*  
Crall, J.M. and L.H. Stover, 1957  
Frazier, Norman W. and J.H. Freitag, 1946  
Freitag, J.H., 1951  
Freitag, J.H. and Norman W. Frazier, 1954

## VIRUS

## V. LUCERNE DWARF (cont.)

- Vitis vinifera*  
Freitag, J.H., N.W. Frazier and R.A. Flock, 1952  
Hewitt, Wm. B., 1939  
Hewitt, Wm. B., N.W. Frazier and Byron R. Houston, 1942  
Hewitt, Wm. B., Byron R. Houston, Norman W. Frazier and J.H. Freitag, 1946  
Houston, Byron R., Katherine Esau and Wm. B. Hewitt, 1946  
Severin, Henry H.P., 1949  
Stoner, Warren N., 1953
- Xanthium canadense*  
Freitag, J.H., 1951
- V. LUCERNE MOSAIC
- Amaranthus caudatus*  
Price, W.C., 1940
- Anthriscus cerefolium*  
Price, W.C., 1940
- Antirrhinum majus*  
Berkeley, G.H., 1947  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Price, W.C., 1940  
Zaumeyer, W.J., 1953
- Apium graveolens*  
Berkeley, G.H., 1947  
Houston, Byron R. and John W. Oswald, 1953  
Richardson, D.E. and T.W. Tinsley, 1956  
Snyder, William C. and Saul Rich, 1942
- Apium graveolens* var. *dulce*  
Houston, Byron R. and John W. Oswald, 1951  
Oswald, John W., 1950  
Severin, Henry H.P., 1950  
Severin, H.H.P. and J.H. Freitag, 1935  
Swenson, K.G., 1952
- Aquilegia caerulea*  
Price, W.C., 1940
- Beta vulgaris*  
Price, W.C., 1940  
Richardson, D.E. and T.W. Tinsley, 1956  
Severin, Henry H.P., 1948
- Calendula officinalis*  
Richardson, D.E. and T.W. Tinsley, 1956
- Capsicum frutescens* (*Capsicum annuum*)  
Berkeley, G.H., 1947  
Dykstra, T.P., 1939  
Houston, Byron R. and John W. Oswald, 1953  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Oswald, John W., 1948, 1950  
Porter, D.R., 1935  
Price, W.C., 1940  
Swenson, K.G., 1952
- Celosia argentea* var. *cristata*  
Kreitlow, K.W. and W.C. Price, 1949
- Chenopodium amaranticolor*  
Hollings, M., 1957
- Chrysanthemum* spp.  
Price, W.C., 1940
- Cicer arietinum*  
Zaumeyer, W.J., 1938
- Cichorium endivia*  
Price, W.C., 1940
- Cleome spinosa*  
Price, W.C., 1940
- Coleus blumei*  
Price, W.C., 1940
- Crotalaria spectabilis*  
Thomas, H. Rex, 1951
- Cucumis sativus*  
Berkeley, G.H., 1947  
Black, L.M. and W.C. Price, 1940  
Johnson, E.M., 1946  
Oswald, John W., 1950  
Richardson, D.E. and T.W. Tinsley, 1956  
Severin, Henry H.P., 1942  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938
- Cyamopsis tetragonoloba*  
Thomas, H. Rex, 1951
- Cymbalaria muralis*  
Price, W.C., 1940



## VIRUS

- V. LUCERNE MOSAIC (cont.)  
*Cynoglossum amabile*  
 Price, W.C., 1940  
*Daphne odora*  
 Milbrath, J.A. and Roy A. Young, 1956  
*Datura stramonium*  
 Berkeley, G.H., 1947  
 Oswald, John W., 1950  
 Porter, D.R., 1935  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Thomas, H. Rex, 1951, 1953  
 Zaumeyer, W.J., 1938, 1953  
*Daucus carota* var. *sativa*  
 Price, W.C., 1940  
*Delphinium cultorum*  
 Price, W.C., 1940  
*Delphinium formosum*  
 Severin, Henry H.P., 1942  
*Delphinium grandiflorum* var. *album*  
 Severin, Henry H.P., 1942  
*Delphinium hybrid*  
 Severin, Henry H.P., 1942  
*Delphinium parryi* var. *maritimum*  
 Severin, Henry H.P., 1942  
*Delphinium* spp.  
 Severin, Henry H.P., 1942  
*Delphinium zalil*  
 Severin, Henry H.P., 1942  
*Dolichos lablab*  
 Pierce, W.H., 1934  
 Zaumeyer, W.J., 1953  
*Eschscholtzia californica*  
 Price, W.C., 1940  
*Gilia liniflora*  
 Price, W.C., 1940  
*Glycine max*  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Pierce, W.H., 1934  
 Snyder, William C. and Saul Rich, 1942  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
*Godetia amoena*  
 Price, W.C., 1940  
*Gomphrena globosa*  
 Richardson, D.E. and T.W. Tinsley, 1956  
 Thomas, H. Rex, 1951  
*Hyoscyamus albus*  
 Price, W.C., 1940  
*Hyoscyamus niger*  
 Price, W.C., 1940  
*Impatiens balsamina*  
 Price, W.C., 1940  
*Impatiens sultani* (or sometimes *Impatiens holstii*)  
 Kreitlow, K.W. and W.C. Price, 1949  
 Zaumeyer, W.J., 1953  
*Lathyrus odoratus*  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1949  
 Snyder, William C. and Saul Rich, 1942  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Lavatera trimestris*  
 Price, W.C., 1940  
*Lens esculenta*  
 Zaumeyer, W.J., 1938  
*Lespedeza striata*  
 Zaumeyer, W.J., 1938  
*Limonium sinuatum*  
 Price, W.C., 1940  
*Linaria macedonica*  
 Price, W.C., 1940  
*Lobelia tenuior*  
 Price, W.C., 1940  
*Lupinus albus*  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
*Lupinus luteus*  
 Zaumeyer, W.J., 1938  
*Lycopersicon esculentum*  
 Berkeley, G.H., 1947  
 Johnson, E.M., 1946  
 Milbrath, J.A. and F.P. McWhorter, 1953

## VIRUS

- V. LUCERNE MOSAIC (cont.)  
*Lycopersicon esculentum*  
 Porter, D.R., 1935  
 Severin, Henry H.P., 1942, 1950  
*Medicago arabica*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Medicago hispida*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Medicago obscura*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Medicago orbicularis*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Medicago sativa*  
 Diachun, Stephen and Lawrence Henson, 1957  
 Henson, Lawrence and Stephen Diachun, 1957  
 Houston, Byron R. and John W. Oswald, 1951, 1953  
 Johnson, E.M., 1946  
 McWhorter, Frank P., 1949  
 Oswald, John W., 1950  
 Pierce, W.H., 1934, 1937  
 Snyder, William C. and Saul Rich, 1942  
 Swenson, K.G., 1952  
 Thomas, H. Rex, 1951  
 Weimer, J.L., 1931, 1934  
 Zaumeyer, W.J., 1938, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Melilotus alba*  
 Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
 Kreitlow, K.W. and W.C. Price, 1949  
 Pierce, W.H., 1934, 1937  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Melilotus indica*  
 Hagedorn, D.J. and E.W. Hanson, 1953  
 Kreitlow, K.W. and W.C. Price, 1949  
 Snyder, William C. and Saul Rich, 1942  
*Melilotus officinalis*  
 Hagedorn, D.J. and E.W. Hanson, 1957  
 Kreitlow, K.W. and W.C. Price, 1949  
*Melilotus* spp.  
 Kreitlow, K.W. and W.C. Price, 1948  
*Melilotus suaveolens*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Mimulus moschatus*  
 Price, W.C., 1940  
*Mirabilis jalapa*  
 Price, W.C., 1940  
*Nemesia strumosa*  
 Price, W.C., 1940  
*Nemophila menziesii* subsp. *insignis*  
 Price, W.C., 1940  
*Nicandra physalodes*  
 Price, W.C., 1940  
*Nicotiana alata*  
 Price, W.C., 1940  
*Nicotiana glutinosa*  
 Berkeley, G.H., 1947  
 Black, L.M. and W.C. Price, 1940  
 Dykstra, T.P., 1939  
 Houston, Byron R. and John W. Oswald, 1953  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Oswald, John W., 1950  
 Pierce, W.H., 1934  
 Severin, Henry H.P., 1942  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1953  
*Nicotiana langsdorffii*  
 Price, W.C., 1940  
 Severin, Henry H.P., 1942  
*Nicotiana longiflora*  
 Price, W.C., 1940  
*Nicotiana palmeri*  
 Price, W.C., 1940  
*Nicotiana paniculata*  
 Price, W.C., 1940  
*Nicotiana rustica*  
 Berkeley, G.H., 1947  
 Kreitlow, K.W. and W.C. Price, 1948, 1949  
 Oswald, John W., 1950  
 Price, W.C., 1940  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1953

## VIRUS

## V. LUCERNE MOSAIC (cont.)

- Nicotiana sanderae*  
Price, W.C., 1940
- Nicotiana sylvestris*  
Dykstra, T.P., 1939  
Price, W.C., 1940
- Nicotiana tabacum*  
Berkeley, G.H., 1947  
Black, L.M. and W.C. Price, 1940  
Houston, Byron R. and John W. Oswald, 1951, 1953  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Oswald, John W., 1950  
Pierce, W.H., 1934  
Richardson, D.E. and T.W. Tinsley, 1956  
Severin, Henry H.P., 1942  
Swenson, K.G., 1952  
Thomas, H. Rex, 1951, 1953  
Thomas, H. Rex and W.J. Zaumeyer, 1950  
Zaumeyer, W.J., 1938, 1953
- Pentstemon* spp.  
Price, W.C., 1940
- Petunia hybrida*  
Berkeley, G.H., 1947  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Pierce, W.H., 1934  
Richardson, D.E. and T.W. Tinsley, 1956  
Severin, Henry H.P., 1942  
Snyder, William C. and Saul Rich, 1942  
Zaumeyer, W.J., 1938
- Petunia* spp.  
Porter, D.R., 1935
- Phacelia campanularia*  
Price, W.C., 1940
- Phaseolus aconitifolius*  
Thomas, H. Rex, 1951
- Phaseolus acutifolius* var. *latifolius*  
Thomas, H.R., 1953  
Zaumeyer, W.J., 1953
- Phaseolus angularis*  
Pierce, W.H., 1934  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus aureus*  
Pierce, W.H., 1934  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus calcaratus*  
Pierce, W.H., 1934  
Thomas, H. Rex, 1951  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus coccineus*  
Thomas, H. Rex, 1951
- Phaseolus lunatus*  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938, 1953
- Phaseolus mungo*  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus vulgaris*  
Berkeley, G.H., 1947  
Black, L.M. and W.C. Price, 1940  
Houston, Byron R. and John W. Oswald, 1951, 1953  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
McWhorter, Frank P., 1949  
Milbrath, J.A., 1952  
Oswald, John W., 1950  
Pierce, W.H., 1934, 1937  
Richardson, D.E. and T.W. Tinsley, 1956  
Thomas, H. Rex, 1951, 1953  
Zaumeyer, W.J., 1938, 1952, 1953  
Zaumeyer, W.J. and B.L. Wade, 1933, 1935
- Phlox drummondii*  
Price, W.C., 1940
- Physalis peruviana*  
Price, W.C., 1940
- Phytolacca americana*  
Johnson, E.M., 1946

## VIRUS

## V. LUCERNE MOSAIC (cont.)

- Phytolacca decandra*  
Price, W.C., 1940
- Pisum sativum*  
Berkeley, G.H., 1947  
Hanson, E.W. and D.J. Hagedorn, 1954  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1948, 1949  
McWhorter, Frank P., 1949, 1954  
Oswald, John W., 1950  
Pierce, W.H., 1934  
Richardson, D.E. and T.W. Tinsley, 1956  
Thomas, H. Rex, 1951, 1953  
Zaumeyer, W.J., 1937, 1938, 1953  
Zaumeyer, W.J. and B.L. Wade, 1936
- Primula obconica*  
Price, W.C., 1940  
Severin, Henry H.P. and C.M. Tompkins, 1950
- Rheum rhaponticum*  
Price, W.C., 1940
- Rumex crispus*  
Price, W.C., 1940
- Salpiglossis sinuata*  
Price, W.C., 1940
- Sesbania* spp.  
Thomas, H. Rex, 1951
- Sinningia speciosa*  
Price, W.C., 1940
- Solanum melongena*  
Berkeley, G.H., 1947  
Porter, D.R., 1935
- Solanum nodiflorum*  
Price, W.C., 1940
- Solanum tuberosum*  
Black, L.M. and W.C. Price, 1940  
Dykstra, T.P., 1939  
Folsom, Donald, 1953  
Hoggan, Isme A., 1927  
Houston, Byron R. and John W. Oswald, 1951, 1953  
McKay, M.B. and T.P. Dykstra, 1932  
Milbrath, J.A., 1952  
Oswald, John W., 1950  
Poster, D.R., 1931, 1935  
Richardson, D.E. and T.W. Tinsley, 1956
- Spinacia oleracea*  
Price, W.C., 1940  
Severin, Henry H.P., 1948
- Tetragonia expansa*  
Price, W.C., 1940
- Thunbergia alata*  
Price, W.C., 1940
- Trifolium alexandrinum*  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium dubium*  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium fragiferum*  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium giganteum* \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Trifolium glomeratum*  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium hirtum*  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium hybridum*  
Hagedorn, D.J. and E.W. Hanson, 1953, 1957  
Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
Kreitlow, K.W. and W.C. Price, 1949
- Trifolium incarnatum*  
Black, L.M. and W.C. Price, 1940  
Hagedorn, D.J. and E.W. Hanson, 1953, 1957  
Hanson, E.W. and D.J. Hagedorn, 1954, 1956  
Kreitlow, K.W. and W.C. Price, 1949  
Pierce, W.H., 1934  
Thomas, H. Rex, 1951  
Zaumeyer, W.J., 1938, 1953
- Trifolium pratense*  
Berkeley, G.H., 1947  
Black, L.M. and W.C. Price, 1940  
Hagedorn, D.J. and E.W. Hanson, 1953, 1957  
Hanson, E.W. and D.J. Hagedorn, 1952, 1954, 1956  
Johnson, E.M., 1946  
Kreitlow, K.W. and W.C. Price, 1949  
Pierce, W.H., 1934, 1937

- VIRUS
- V. LUCERNE MOSAIC (cont.)
- Trifolium pratense*  
 Thomas, H. Rex, 1951  
 Zaumeyer, W. J., 1938  
 Zaumeyer, W. J. and B. L. Wade, 1935
- Trifolium repens*  
 Black, L. M. and W. C. Price, 1940  
 Houston, Byron R. and John W. Oswald, 1953  
 Johnson, E. M., 1946  
 Kreitlow, K. W., O. J. Hunt and H. L. Wilkins, 1957  
 Kreitlow, K. W. and W. C. Price, 1949  
 Pierce, W. H., 1934  
 Roberts, D. A., 1956  
 Snyder, William C. and Saul Rich, 1942  
 Zaumeyer, W. J., 1938, 1953
- Trifolium repens* var. *giganteum* \*  
 Kreitlow, K. W. and W. C. Price, 1948  
 Thomas, H. Rex, 1951
- Trifolium repens* var. *latum* \*  
 Houston, Byron R. and John W. Oswald, 1951
- Trifolium resupinatum*  
 Kreitlow, K. W. and W. C. Price, 1949
- Trifolium* spp.  
 Kreitlow, K. W. and W. C. Price, 1948
- Trifolium subterraneum*  
 Kreitlow, K. W. and W. C. Price, 1949
- Verbascum phoeniceum*  
 Price, W. C., 1940
- Veronica longifolia*  
 Price, W. C., 1940
- Vicia americana*  
 Zaumeyer, W. J. and B. L. Wade, 1935
- Vicia faba*  
 Berkeley, G. H., 1947  
 Black, L. M. and W. C. Price, 1940  
 Houston, Byron R. and John W. Oswald, 1953  
 Richardson, D. E. and T. W. Tinsley, 1956  
 Snyder, William C. and Saul Rich, 1942  
 Swenson, K. G., 1952  
 Thomas, H. Rex, 1951  
 Zaumeyer, W. J., 1938, 1953  
 Zaumeyer, W. J. and B. L. Wade, 1935
- Vicia faba* var. *minor*  
 Pierce, W. H., 1934, 1938
- Vicia sativa*  
 Pierce, W. H., 1934  
 Zaumeyer, W. J., 1938
- Vicia villosa*  
 Zaumeyer, W. J., 1938
- Vigna sesquipedalis*  
 Pierce, W. H., 1934  
 Snyder, William C. and Saul Rich, 1942  
 Zaumeyer, W. J., 1938
- Vigna sinensis*  
 Black, L. M. and W. C. Price, 1940  
 Kreitlow, K. W. and W. C. Price, 1949  
 Milbrath, J. A. and F. P. McWhorter, 1954  
 Oswald, John W., 1950  
 Snyder, William C. and Saul Rich, 1942  
 Thomas, H. Rex, 1951, 1953  
 Zaumeyer, W. J., 1938, 1953
- Vinca rosea*  
 Kreitlow, K. W. and W. C. Price, 1948, 1949  
 Price, W. C., 1940
- Viola cornuta*  
 Severin, Henry H. P., 1947
- Viola tricolor* var. *hortensis*  
 Severin, Henry H. P., 1947
- Zaluzianskya villosa*  
 Price, W. C., 1940
- Zinnia elegans*  
 Berkeley, G. H., 1947  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
 Johnson, E. M., 1946  
 Kreitlow, K. W. and W. C. Price, 1948, 1949  
 Richardson, D. E. and T. W. Tinsley, 1956  
 Swenson, K. G., 1952  
 Thomas, H. Rex, 1951, 1953  
 Zaumeyer, W. J., 1938, 1953
- VIRUS
- V. LUCERNE WITCHES' BROOM Edwards 1936
- Astragalus chinensis*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Astragalus falcatus*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Astragalus mortoni*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Calendula officinalis*  
 Helms, Katie, 1957
- Crotalaria goreensis*  
 Helms, Katie, 1957
- Datura stramonium*  
 Helms, Katie, 1957
- Datura stramonium* var. *tatula*  
 Helms, Katie, 1957
- Daucus carota*  
 Helms, Katie, 1957
- Daucus carota* var. *sativa*  
 Kunkel, L. O., 1952
- Hedysarum coronarium*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Lactuca sativa*  
 Helms, Katie, 1957
- Lathyrus latifolius*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Lotus corniculatus*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Lycopersicon esculentum*  
 Helms, Katie, 1957  
 Kunkel, L. O., 1952
- Medicago falcata*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Medicago hispida*  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
 Menzies, J. D., 1944, 1946
- Medicago lupulina*  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
 Menzies, J. D., 1944, 1946
- Medicago ruthenica*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Medicago sativa*  
 Helms, Katie, 1957  
 Kunkel, L. O., 1952  
 Menzies, J. D., 1944, 1946  
 Menzies, J. D. and F. D. Heald, 1942
- Melilotus alba*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Nicotiana glutinosa*  
 Helms, Katie, 1957
- Nicotiana rustica*  
 Helms, Katie, 1957
- Nicotiana tabacum*  
 Helms, Katie, 1957
- Nicotiana tabacum* var. *atropurpurea* \*  
 Helms, Katie, 1957
- Petunia* spp.  
 Helms, Katie, 1957
- Solanum tuberosum*  
 Helms, Katie, 1957  
 Kunkel, L. O., 1952
- Trifolium pratense*  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
 Menzies, J. D., 1946
- Trifolium repens*  
 Klostermeyer, E. C. and J. D. Menzies, 1951  
 Menzies, J. D., 1946
- Trifolium subterraneum*  
 Klostermeyer, E. C. and J. D. Menzies, 1951
- Vinca rosea*  
 Kunkel, L. O., 1952
- Vinca rosea* var. *alba*  
 Helms, Katie, 1957
- Vinca rosea* var. *oculata* \*  
 Helms, Katie, 1957
- V. LUPINE DISEASE \*
- Capsicum frutescens* (*Capsicum annuum*)  
 Weimer, J. L., 1950
- Cucumis sativus*  
 Weimer, J. L., 1950
- Lupinus angustifolius*  
 Weimer, J. L., 1950

## VIRUS

## V. MAIZE LEAF FLECK Stoner 1952

*Phalaris tuberosa* var. *stenoptera*

Stoner, Warren N., 1952

*Zea mays*

Stoner, Warren N., 1952

## V. MAIZE MOSAIC Kunkel 1923

*Musa textilis*

Juliano, Jorge P., 1951

*Saccharum officinarum*

Brandes, E.W., 1920

*Zea mays*

Brandes, E.W., 1920

Kunkel, L.O., 1927

## V. MAIZE STREAK Storey 1925

*Avena sativa*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Chloris virgata*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Digitaria horizontalis*

Storey, H.H. and A.P.D. McClean, 1930

*Eleusine indica*

Storey, H.H. and A.P.D. McClean, 1930

*Eragrostis abyssinica*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Eragrostis aspera*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Eragrostis curvula*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Euchlaena mexicana*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Hordeum vulgare*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Lolium subulatum*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Saccharum officinarum*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Saccharum* spp.

Storey, H.H. and A.P.D. McClean, 1930

*Secale cereale*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Triticum aestivum*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Urochloa panicoides*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

*Zea mays*

Finley, A.M., 1954

McKinney, H.H., 1929

Storey, H.H., 1925, 1928, 1932, 1937

Storey, H.H. and A.P.D. McClean, 1930

## V. MAIZE STUNT Kunkel 1946

*Zea mays*

Hildebrand, E.M., 1949

Maramorosch, Karl, 1951, 1955, 1956, 1957

Niederhauser, John S. and Javier Cervantes, 1950

## V. MAIZE WALLABY EAR Schindler 1942

*Zea mays*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. MALVA YELLOW VEIN MOSAIC \*

*Lavatera assurgentiflora*

Costa, A.S. and James E. Duffus, 1957

*Malva parviflora*

Costa, A.S. and James E. Duffus, 1957

*Malva rotundifolia*

Costa, A.S. and James E. Duffus, 1957

*Malva sylvestris*

Costa, A.S. and James E. Duffus, 1957

## V. MILKWEED MOSAIC \*

*Asclepias syriaca*

Newhall, A.G., 1923

## V. MOUNTAIN ASH INFECTIOUS VARIEGATION

*Sorbus aucuparia*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. MUSKMELON MOSAIC Rader et al. 1947

*Citrullus vulgaris*

Anderson, C.W., 1954

## VIRUS

## V. MUSKMELON MOSAIC (cont.)

*Citrullus vulgaris*

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

*Citrullus vulgaris* var. *citroides*

Anderson, C.W., 1954

*Cucumis anguria*

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis melo*

Anderson, C.W., 1954

Freitag, J.H., 1952

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

*Cucumis melo* var. *chito*

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis melo* var. *conomon* \*

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis melo* var. *flexuosus*

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis melo* var. *inodorus*

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis melo* var. *reticulatus*

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucumis sativus*

Anderson, C.W., 1954

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucurbita maxima*

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucurbita moschata*

Anderson, C.W., 1954

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucurbita okeechobeensis*

Anderson, C.W., 1954

*Cucurbita pepo*

Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

Rader, Wm. E., Hugh F. Fitzpatrick and E.M.

Hildebrand, 1947

*Cucurbita pepo* var. *medullosa* \*

Anderson, C.W., 1954

*Cucurbita pepo* var. *melo pepo*

Anderson, C.W., 1954

*Cyclanthera pedata*

Anderson, C.W., 1954

*Lagenaria siceraria* (*Lagenaria leucantha*)

Anderson, C.W., 1954

*Luffa aegyptiaca* (*Luffa cylindrica*)

Anderson, C.W., 1954

*Melothria pendula*

Anderson, C.W., 1954

*Momordica charantia*

Anderson, C.W., 1954

## V. MUSKMELON VEIN NECROSIS Freitag 1952

*Cucumis melo*

Freitag, J.H., 1952

## V. MUSTARD (BLACK) RING SPOT \*

*Brassica* spp.

(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. NARCISSUS MOSAIC McWhorter and Weiss 1932;

*Narcissus pseudo-narcissus*

Haasis 1939

Haasis, Frank A., 1939

*Narcissus* spp.

Blanton, F.S. and F.A. Haasis, 1942

Haasis, Frank A., 1939

McWhorter, Frank P. and Freeman Weiss, 1932

## V. NARCISSUS STRIPE \*

*Chenopodium amaranticolor*

Hollings, M., 1957

## VIRUS

- V. NARCISSUS STRIPE \* (cont.)  
*Narcissus pallida praecox* \*  
 Caldwell, John and Ian W. Prentice, 1943  
*Narcissus* spp.  
 Caldwell, John and Ian W. Prentice, 1943  
 Hawker, Lilian E., 1943  
*Narcissus triandrus*  
 Caldwell, John and Ian W. Prentice, 1943
- V. NICOTIANA GLAUCA LIGHT GREEN MOSAIC \*  
*Nicotiana glauca*  
 McKinney, H.H., 1929  
*Nicotiana tabacum*  
 McKinney, H.H., 1929
- V. NICOTIANA GLAUCA MILD DARK GREEN MOSAIC \*  
*Nicotiana tabacum*  
 McKinney, H.H., 1929
- V. NICOTIANA GLAUCA YELLOW MOSAIC \*  
*Nicotiana tabacum*  
 McKinney, H.H., 1929
- V. NICOTIANA GLUTINOSA MOSAIC \*  
*Datura fastuosa*  
 Allard, H.A., 1916  
*Lycopersicon esculentum*  
 Walker, M.N., 1925  
*Nicotiana glutinosa*  
 Allard, H.A., 1916  
 Fernow, Karl Hermann, 1925  
*Nicotiana tabacum*  
 Walker, M.N., 1925  
*Nicotiana tabacum* x *Nicotiana glutinosa*  
 Allard, H.A., 1916
- V. NICOTIANA GLUTINOSA ROOT NECROSIS \*  
*Nicotiana glutinosa*  
 Cetas, Robert C. and A. Frank Ross, 1952  
*Nicotiana repanda*  
 Cetas, Robert C. and A. Frank Ross, 1952  
*Physalis floridana*  
 Cetas, Robert C. and A. Frank Ross, 1952  
*Physalis peruviana*  
 Cetas, Robert C. and A. Frank Ross, 1952
- V. NOTHOSCORDERUM MOSAIC McKinney 1950  
*Nothoscordum fragrans*  
 McKinney, H.H., 1950
- V. (OAT) BLUE DWARF \*  
*Avena sativa*  
 Moore, M.B., 1952
- V. OAT PSEUDO-ROSETTE Grebennikov 1941  
*Agropyron repens*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Avena byzantina*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Avena festuca* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Avena sativa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Avena sterilis*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Avena strigosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Bromus inermis*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Echinochloa crus-galli*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Hordeum vulgare*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Oryza sativa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Panicum miliaceum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Secale cereale*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Setaria viridis*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Triticum aestivum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## VIRUS

- V. OAT PSEUDO-ROSETTE (cont.)  
*Zea mays*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. ONION MOSAIC Vovk 1944  
*Allium canadense*  
 McKinney, H.H., 1928  
*Allium cepa*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Allium neopolitanum*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Allium sativum*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Allium vineale*  
 Brierley, Philip and Floyd F. Smith, 1944
- V. ONION YELLOW DWARF Melhus et al. 1929; Drake, Harris, and Tate 1932  
*Allium ascalonicum*  
 Henderson, D.M., 1953  
 Henderson, W.J., 1935  
*Allium cepa*  
 Brierley, Philip and Floyd F. Smith, 1946  
 Henderson, D.M., 1953  
 Henderson, W.J., 1932, 1935  
 Melhus, I.E. and W.J. Henderson, 1929  
 Melhus, I.E., C.S. Reddy, W.J. Henderson and E. Vestal, 1929  
*Allium cepa* var. *solaninum*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Allium cepa* var. *viviparum*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Allium porrum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Allium sativum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Allium vineale*  
 Brierley, Philip and Floyd F. Smith, 1944  
*Narcissus jonquilla*  
 Henderson, W.J., 1935  
*Narcissus tazetta*  
 Henderson, W.J., 1935
- V. ORCHID \*  
*Spathoglottis* spp.  
 Murakishi, H. and M. Ishii, 1954
- V. ORCHID (CATTLEYA) MOSAIC Jensen 1949  
*Cattleya mossiae*  
 Jensen, D.D., 1949  
*Cattleya* spp.  
 Murakishi, Harry H., 1952  
*Cattleya trianae*  
 Jensen, D.D., 1949
- V. ORCHID (CYMBIDIUM) MOSAIC Jensen 1950  
*Angraecum eburneum*  
 Jensen, D.D. and A.H. Gold, 1955  
*Brassocattleya dietrichiana* \*  
 Jensen, D.D. and A.H. Gold, 1955  
*Cattleya* spp.  
 Murakishi, H. and M. Ishii, 1954  
*Cattleya trianae*  
 Jensen, D.D. and A.H. Gold, 1955  
*Cattleya waltersiana* \*  
 Jensen, D.D. and A.H. Gold, 1955  
*Chenopodium amaranticolor*  
 Hollings, M., 1956  
*Cymbidium insigne*  
 Jensen, D.D., 1951  
*Cymbidium lowianum*  
 Jensen, D.D., 1951  
*Cymbidium* spp.  
 Jensen, D.D., 1950  
 Jensen, D.D. and A.H. Gold, 1955  
 Murakishi, H. and M. Ishii, 1954  
 White, N.H. and D.J. Goodchild, 1955  
*Datura stramonium*  
 Jensen, D.D. and A.H. Gold, 1955  
 White, N.H. and D.J. Goodchild, 1955  
*Epidendrum* spp.  
 Jensen, D.D. and A.H. Gold, 1955

## VIRUS

- V. ORCHID (CYMBIDIUM) MOSAIC (cont.)  
*Laelia anceps*  
 Jensen, D. D. and A. H. Gold, 1955  
*Laeliocattleya lustre plumosa* \*  
 Jensen, D. D. and A. H. Gold, 1955  
*Laeliocattleya pasadena* \*  
 Jensen, D. D. and A. H. Gold, 1955  
*Laeliocattleya proca* \*  
 Jensen, D. D. and A. H. Gold, 1955  
*Laeliocattleya sargon* \*  
 Jensen, D. D. and A. H. Gold, 1955  
*Laeliocattleya shoshone* \*  
 Jensen, D. D. and A. H. Gold, 1955  
*Oncidium* spp.  
 Jensen, D. D. and A. H. Gold, 1955  
*Zygopetalum* spp.  
 Jensen, D. D. and A. H. Gold, 1955
- V. ORCHID (DENDROBIUM) MOSAIC \*  
*Dendrobium superbum*  
 Murakishi, Harry H., 1952  
 Murakishi, H. and M. Ishii, 1954
- V. ORCHID (LAELIA ANCEPS) \*  
*Cymbidium* spp.  
 Jensen, D. D. and A. Herbert Gold, 1952  
*Laelia anceps*  
 Jensen, D. D. and A. Herbert Gold, 1952
- V. ORCHID (ODONTOGLOSSUM) RING SPOT Jensen and Gold 1951  
*Cattleya* spp.  
 Jensen, D. D. and A. Herbert Gold, 1952  
*Cymbidium* spp.  
 Jensen, D. D. and A. Herbert Gold, 1952  
*Odontoglossum grande*  
 Jensen, D. D. and A. Herbert Gold, 1951, 1952  
*Zinnia elegans*  
 Jensen, D. D. and A. Herbert Gold, 1952
- V. ORCHID (ONCIDIUM ROGERS) \*  
*Cymbidium* spp.  
 Jensen, D. D. and A. Herbert Gold, 1952  
*Oncidium rogers* \*  
 Jensen, D. D. and A. Herbert Gold, 1952
- V. ORCHID (VANDA) MOSAIC Murakishi 1950  
*Aranda* spp.  
 Murakishi, Harry H., 1952  
*Vanda boschii* \*  
 Murakishi, Harry H., 1952  
*Vanda cooperii* \*  
 Murakishi, Harry H., 1952  
*Vanda* spp.  
 Murakishi, Harry H., 1952  
 Murakishi, H. and M. Ishii, 1954
- V. ORNITHOGALUM MOSAIC Smith and Brierley 1944  
*Eucomis* spp.  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Ornithogalum thyrsoides*  
 Smith, Floyd F. and Philip Brierley, 1944
- V. PANAX RING SPOT Aragaki et al. 1953  
*Nothopanax guilfoylei*  
 Aragaki, M. and H. Murakishi, and J. W. Hendrix, 1953
- V. PANICUM MOSAIC \*  
*Digitaria sanguinalis*  
 Sill, W. H., Jr., 1957  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Echinochloa crus-galli*  
 Sill, W. H., Jr., 1957  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Panicum capillare*  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Panicum hallii*  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Panicum miliaceum*  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Panicum scribnerianum*  
 Sill, W. H., Jr. and R. C. Pickett, 1957

## VIRUS

- V. PANICUM MOSAIC \* (cont.)  
*Panicum virgatum*  
 Sill, W. H., Jr., 1957  
 Sill, W. H., Jr. and R. C. Pickett, 1957  
*Setaria italica*  
 Sill, W. H., Jr., 1957  
 Sill, W. H., Jr. and R. C. Pickett, 1957
- V. PAPA W BUNCHY TOP Bird and Adsuar 1952  
*Carica papaya*  
 Bird, Julio and Jose Adsuar, 1952
- V. PAPA W MOSAIC Capoor and Varma 1948  
*Carica papaya*  
 Adsuar, Jose, 1946, 1947  
*Melothria guadalupensis*  
 Adsuar, Jose, 1950
- V. PAPA W RING SPOT Jensen 1947  
*Carica papaya*  
 Holmes, F. O., J. W. Hendrix, W. Ikeda, D. D. Jensen, R. C. Lindner and W. B. Storey, 1948  
 Jensen, D. D., 1949
- V. PASSIFLORA FOETIDA MOSAIC \*  
*Passiflora foetida*  
 Jensen, D. D., 1949
- V. PASSIFLORA PFORDTI MOSAIC \*  
*Passiflora pfordtii*  
 Jensen, D. D., 1949
- V. PEA DIE BACK \*  
*Cucumis sativus*  
 Zaumeyer, W. J., 1939  
*Nicotiana tabacum*  
 Zaumeyer, W. J., 1939  
*Petunia hybrida*  
 Zaumeyer, W. J., 1939  
*Phaseolus lunatus*  
 Zaumeyer, W. J., 1939  
*Pisum sativum*  
 Zaumeyer, W. J., 1939  
*Vicia faba*  
 Zaumeyer, W. J., 1939
- V. PEA ENATION MOSAIC Pierce 1935  
*Astragalus rubyi*  
 Hagedorn, D. J., 1957  
*Cicer arietinum*  
 Hagedorn, D. J., 1957  
*Glycine max*  
 Chaudhuri, R. P., 1950  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1954  
 Pierce, W. H., 1935  
 Simons, John N., 1954  
 Stubbs, M. W., 1936, 1937  
*Lathyrus cicera*  
 Hagedorn, D. J., 1957  
*Lathyrus hirsutus*  
 McEwen, F. L. and W. T. Schroeder, 1956  
*Lathyrus latifolius*  
 Johnson, Folke and Leon K. Jones, 1937  
*Lathyrus odoratus*  
 Ainsworth, G. C., 1940  
 Chaudhuri, R. P., 1950  
 Hagedorn, D. J. and J. C. Walker, 1954  
 Johnson, Folke and Leon K. Jones, 1937  
 Osborn, H. T., 1938  
 Simons, John N., 1954  
 Stubbs, M. W., 1936, 1937  
*Lathyrus tingitanus*  
 Hagedorn, D. J., 1957  
*Lupinus albus*  
 Hagedorn, D. J., 1957  
*Lupinus angustifolius*  
 Hagedorn, D. J., 1957  
*Medicago arabica*  
 Simons, John N., 1954  
*Medicago hispida*  
 Simons, John N., 1954

## VIRUS

## V. PEA ENATION MOSAIC (cont.)

- Medicago sativa*  
Johnson, Folke and Leon K. Jones, 1937  
McEwen, F. L. and W. T. Schroeder, 1956
- Melilotus alba*  
McEwen, F. L. and W. T. Schroeder, 1956
- Melilotus officinalis*  
Hagedorn, D. J. and J. C. Walker, 1954  
McEwen, F. L. and W. T. Schroeder, 1956  
Stubbs, M. W., 1936, 1937
- Phaseolus vulgaris*  
Johnson, Folke and Leon K. Jones, 1937
- Pisum sativum*  
Ainsworth, G. C., 1940  
Chaudhuri, R. P., 1950  
Hagedorn, D. J., 1952  
Hagedorn, D. J. and J. C. Walker, 1954  
Johnson, Folke and Leon K. Jones, 1937  
McEwen, F. L. and W. T. Schroeder, 1956  
McWhorter, Frank P., 1954  
Osborn, H. T., 1938  
Pierce, W. H., 1935, 1937  
Simons, John N., 1954  
Stubbs, M. W., 1936, 1937
- Pisum sativum* var. *arvense*  
Osborn, H. T., 1938
- Pisum sativum* var. *saccharatum*  
Pierce, W. H., 1935
- Trifolium glomeratum*  
Hagedorn, D. J., 1957
- Trifolium hybridum*  
Johnson, Folke and Leon K. Jones, 1937
- Trifolium incarnatum*  
Chaudhuri, R. P., 1950  
Hagedorn, D. J., 1952  
Hagedorn, D. J. and J. C. Walker, 1954  
McEwen, F. L. and W. T. Schroeder, 1956  
Osborn, H. T., 1938  
Simons, John N., 1954  
Stubbs, M. W., 1937
- Trifolium pratense*  
Hagedorn, D. J., 1952
- Trifolium repens*  
McEwen, F. L. and W. T. Schroeder, 1956
- Trifolium resupinatum*  
Hagedorn, D. J., 1957
- Trifolium subterraneum*  
Hagedorn, D. J., 1957
- Trigonella foenum-graecum*  
Hagedorn, D. J., 1952
- Vicia dasycarpa*  
Hagedorn, D. J., 1957
- Vicia faba*  
Ainsworth, G. C., 1940  
McEwen, F. L. and W. T. Schroeder, 1956  
Osborn, H. T., 1934, 1935, 1938  
Stubbs, M. W., 1936
- Vicia faba* var. *minor*  
Hagedorn, D. J. and J. C. Walker, 1954  
Pierce, W. H., 1935  
Stubbs, M. W., 1937
- Vicia pannonica*  
Hagedorn, D. J., 1957
- Vicia sativa*  
McEwen, F. L. and W. T. Schroeder, 1956
- Vicia villosa*  
McEwen, F. L. and W. T. Schroeder, 1956
- V. PEA LEAF ROLL Quantz and Volk 1954
- Medicago sativa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Pisum sativum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. PEA MOSAIC Doolittle and Jones 1925; Chamberlain  
*Chenopodium amaranticolor* 1936, 1937  
Hollings, M., 1957
- Cicer arietinum*  
Murphy, D. M. and W. H. Pierce, 1937  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Desmodium canadense*  
Murphy, D. M. and W. H. Pierce, 1937

## VIRUS

## V. PEA MOSAIC (cont.)

- Lathyrus hirsutus*  
Hagedorn, D. J., 1948
- Lathyrus odoratus*  
Ainsworth, G. C., 1940  
Chaudhuri, R. P., 1950  
Doolittle, S. P. and F. R. Jones, 1925  
Hagedorn, D. J. and J. C. Walker, 1954  
Murphy, D. M. and W. H. Pierce, 1937  
Osborn, H. T., 1934, 1935  
Stubbs, M. W., 1936, 1937
- Lathyrus sativus*  
Murphy, D. M. and W. H. Pierce, 1937
- Lupinus albus*  
Hagedorn, D. J. and J. C. Walker, 1954  
Murphy, D. M. and W. H. Pierce, 1937  
Pierce, W. H., 1937  
Stubbs, M. W., 1936, 1937
- Lupinus angustifolius*  
Murphy, D. M. and W. H. Pierce, 1937
- Lupinus densiflorus*  
Murphy, D. M. and W. H. Pierce, 1937
- Lupinus hartwegii*  
Murphy, D. M. and W. H. Pierce, 1937
- Lupinus luteus*  
Steveninck, R. F. M. Van, 1957
- Lupinus nanus*  
Murphy, D. M. and W. H. Pierce, 1937
- Medicago arabica*  
Murphy, D. M. and W. H. Pierce, 1937
- Medicago hispida*  
Murphy, D. M. and W. H. Pierce, 1937
- Medicago sativa*  
Johnson, F. and L. K. Jones, 1936
- Melilotus alba*  
Hagedorn, D. J., 1948  
Murphy, D. M. and W. H. Pierce, 1937  
Osborn, H. T., 1937  
Pierce, W. H., 1937  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Melilotus alba* var. *annua*  
Murphy, D. M. and W. H. Pierce, 1937
- Melilotus indica*  
Murphy, D. M. and W. H. Pierce, 1937
- Melilotus officinalis*  
Hagedorn, D. J., 1948  
Hagedorn, D. J. and J. C. Walker, 1954  
Murphy, D. M. and W. H. Pierce, 1937  
Pierce, W. H., 1935  
Stubbs, M. W., 1936, 1937
- Phaseolus acutifolius* var. *latifolius*  
Murphy, D. M. and W. H. Pierce, 1937
- Phaseolus vulgaris*  
Hagedorn, D. J., 1948  
Johnson, F. and L. K. Jones, 1936  
Osborn, H. T., 1937  
Zaunmeyer, W. J., 1933  
Zaunmeyer, W. J. and B. L. Wade, 1933
- Pisum sativum*  
Ainsworth, G. C., 1940  
Chaudhuri, R. P., 1950  
Doolittle, S. P. and F. R. Jones, 1925  
Hagedorn, D. J., 1948  
Hagedorn, D. J. and J. C. Walker, 1954  
Johnson, F. and L. K. Jones, 1936  
Murphy, D. M. and W. H. Pierce, 1937  
Osborn, H. T., 1934, 1935  
Oshima, Nagayoshi and M. F. Kernkamp, 1957  
Pierce, W. H., 1935, 1937  
Snyder, W. C., 1934  
Stubbs, M. W., 1936, 1937  
Yen, D. E. and P. R. Fry, 1956  
Zaunmeyer, W. J. and B. L. Wade, 1936
- Pisum sativum* var. *arvense*  
Hagedorn, D. J., 1948  
Murphy, D. M. and W. H. Pierce, 1937  
Osborn, H. T., 1934, 1935
- Pisum sativum* var. *saccharatum*  
Pierce, W. H., 1935
- Trifolium agrarium*  
Murphy, D. M. and W. H. Pierce, 1937
- Trifolium carolinianum*  
Murphy, D. M. and W. H. Pierce, 1937

## VIRUS

## V. PEA MOSAIC (cont.)

- Trifolium dubium*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium glomeratum*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium hybridum*  
Johnson, F. and L.K. Jones, 1936  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1937
- Trifolium incarnatum*  
Chaudhuri, R.P., 1950  
Hagedorn, D.J., 1948  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1935, 1937  
Stubbs, M.W., 1936, 1937
- Trifolium pratense*  
Doolittle, S.P. and F.R. Jones, 1925  
Hagedorn, D.J., 1948  
Hanson, E.W. and D.J. Hagedorn, 1952  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1937  
Oshima, Nagayoshi and M.F. Kernkamp, 1957  
Pierce, W.H., 1935, 1937
- Trifolium procumbens*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium reflexum*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium suaveolens*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium subterranean*  
Chaudhuri, R.P., 1950
- Trigonella foenum-graecum*  
Hagedorn, D.J., 1948
- Vicia faba*  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J., 1948  
Johnson, F. and L.K. Jones, 1936  
Osborn, H.T., 1937  
Stubbs, M.W., 1936
- Vicia faba var. major* \*  
Murphy, D.M. and W.H. Pierce, 1937
- Vicia faba var. minor*  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1937
- Vicia sativa*  
Chaudhuri, R.P., 1950  
Murphy, D.M. and W.H. Pierce, 1937
- V. PEA MOTTLE F. Johnson 1942
- Antirrhinum majus*  
Johnson, Folke, 1942
- Cucumis sativus*  
Johnson, Folke, 1942
- Lathyrus latifolius*  
Johnson, Folke and Leon K. Jones, 1937
- Lathyrus odoratus*  
Johnson, Folke, 1942  
Johnson, Folke and Leon K. Jones, 1937
- Lens culinaris*  
Johnson, F. and L.K. Jones, 1936
- Lens esculenta*  
Johnson, Folke, 1942  
Johnson, Folke and Leon K. Jones, 1937
- Lupinus albus*  
Johnson, Folke, 1942
- Lupinus hirsutus*  
Johnson, Folke, 1942
- Medicago lupulina*  
Johnson, Folke, 1942  
Johnson, Folke and Leon K. Jones, 1937
- Medicago sativa*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Melilotus alba*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936
- Melilotus officinalis*  
Johnson, Folke and Leon K. Jones, 1937

## VIRUS

## V. PEA MOTTLE (cont.)

- Pisum sativum*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Phaseolus aureus*  
Johnson, Folke, 1942
- Phaseolus vulgaris*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Spinacia oleracea*  
Johnson, Folke, 1942
- Stellaria media*  
Johnson, Folke, 1942
- Trifolium hybridum*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Trifolium incarnatum*  
Johnson, Folke, 1942
- Trifolium pratense*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Trifolium repens*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937  
Zaumeier, W.J. and B.L. Wade, 1935
- Vicia faba*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- Vicia sativa*  
Johnson, Folke, 1942  
Johnson, F. and L.K. Jones, 1936, 1937
- V. PEA STEM STREAK \*
- Cucumis sativus*  
Zaumeier, W.J., 1939
- Nicotiana tabacum*  
Zaumeier, W.J., 1939
- Petunia hybrida*  
Zaumeier, W.J., 1939
- Phaseolus lunatus*  
Zaumeier, W.J., 1939
- Pisum sativum*  
Zaumeier, W.J., 1939
- Vicia faba*  
Zaumeier, W.J., 1939
- V. PEA STREAK Zaumeier and Wade 1938
- Cicer arietinum*  
Zaumeier, W.J., 1938
- Glycine max*  
Kim, Woon S. and D.J. Hagedorn, 1957  
Zaumeier, W.J., 1938
- Lathyrus hirsutus*  
Hagedorn, D.J., 1948
- Lens esculenta*  
Zaumeier, W.J., 1938
- Medicago sativa*  
Zaumeier, W.J., 1938
- Melilotus alba*  
Hagedorn, D.J., 1948  
Zaumeier, W.J., 1938
- Nicotiana tabacum*  
Kim, Woon S. and D.J. Hagedorn, 1957
- Phaseolus vulgaris*  
Kim, Woon S. and D.J. Hagedorn, 1957
- Pisum sativum*  
Kim, Woon S. and D.J. Hagedorn, 1957  
Linford, M.B., 1931  
Oshima, Nagayoshi and M.F. Kernkamp, 1957  
Zaumeier, W.J., 1937, 1938  
Zaumeier, W.J. and B.L. Wade, 1937
- Trifolium hybridum*  
Hagedorn, D.J., 1948
- Trifolium incarnatum*  
Hagedorn, D.J., 1948  
Zaumeier, W.J., 1938
- Trifolium pratense*  
Hagedorn, D.J., 1948  
Oshima, Nagayoshi and M.F. Kernkamp, 1957  
Zaumeier, W.J., 1938
- Trifolium repens*  
Zaumeier, W.J., 1938



- VIRUS
- V. PEA STREAK (cont.)
- Vicia faba*  
Zaumeier, W.J., 1938
- Vicia faba* var. *minor*  
Zaumeier, W.J., 1938
- Vicia sativa*  
Zaumeier, W.J., 1938
- Vigna sinensis*  
Kim, Woon S. and D.J. Hagedorn, 1957
- Zinnia elegans*  
Kim, Woon S. and D.J. Hagedorn, 1957
- V. PEA WILT F. Johnson 1942
- Glycine max*  
Pierce, W.H., 1935
- Lathyrus odoratus*  
Johnson, Folke, 1942
- Lens esculenta*  
Johnson, Folke, 1942
- Lupinus albus*  
Johnson, Folke, 1942
- Medicago lupulina*  
Johnson, Folke, 1942
- Melilotus alba*  
Johnson, Folke, 1942
- Phaseolus aureus*  
Johnson, Folke, 1942
- Phaseolus vulgaris*  
Johnson, Folke, 1942
- Pisum sativum*  
Johnson, Folke, 1942  
Pierce, W.H., 1935
- Pisum sativum* var. *saccharatum*  
Pierce, W.H., 1935
- Trifolium hybridum*  
Johnson, Folke, 1942
- Trifolium incarnatum*  
Johnson, Folke, 1942
- Trifolium pratense*  
Johnson, Folke, 1942
- Trifolium repens*  
Johnson, Folke, 1942
- Vicia faba*  
Johnson, Folke, 1942
- Vicia faba* var. *minor*  
Pierce, W.H., 1935
- Vicia sativa*  
Johnson, Folke, 1942
- Vigna sinensis*  
Johnson, Folke, 1942
- V. PEA YELLOW MOSAIC \*
- Lathyrus odoratus*  
Ainsworth, G.C., 1940
- Pisum sativum*  
Ainsworth, G.C., 1940
- Trifolium pratense*  
Ainsworth, G.C., 1940
- Vicia faba*  
Ainsworth, G.C., 1940
- V. PEACH ASTEROID SPOT Cochran and C.O. Smith 1938
- Prunus amygdalus*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus armeniaca*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus avium*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus domestica*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus mume*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus persica*  
Clayton, C.N., 1949  
Cochran, L.C. and Clayton O. Smith, 1938  
Richards, B.L. and L.C. Cochran, 1956
- Prunus persica* var. *nectarina*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus salicina*  
Richards, B.L. and L.C. Cochran, 1956
- VIRUS
- V. PEACH BLOTCH Willison 1946
- Prunus persica*  
Willison, R.S., 1946
- V. PEACH CALICO Blodgett 1942
- Prunus calico*  
Blodgett, Earle C., 1944
- V. PEACH LITTLE PEACH E.F. Smith 1891 ((This virus is related to the longer known V. Peach yellows (q.v.))
- Prunus armeniaca*  
Manns, T.F., 1942
- Prunus cerasifera*  
Manns, T.F., 1942
- Prunus cerasifera* var. *pissardii*  
Manns, T.F., 1942
- Prunus communis*  
Manns, T.F., 1942
- Prunus domestica*  
Manns, T.F., 1942
- Prunus insititia*  
Manns, T.F., 1942
- Prunus munsoniana*  
Manns, T.F., 1942
- Prunus munsoniana* x *Prunus salicina*  
Manns, T.F., 1942
- Prunus persica*  
Cook, M.T., 1922  
Kunkel, L.O., 1936, 1938  
Manns, T.F., 1936, 1942
- Prunus salicina*  
Manns, T.F., 1936, 1942
- Prunus simonii*  
Manns, T.F., 1942
- V. PEACH MOSAIC Hutchins 1932
- Prunus americana*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus amygdalus*  
Cochran, L.C. and L.M. Hutchins, 1937, 1938
- Prunus angustifolia*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus armeniaca*  
Bodine, E.W. and L.W. Durrell, 1941  
Cochran, L.C. and L.M. Hutchins, 1937, 1938  
Thomas, H. Earl and T.E. Rawlins, 1939
- Prunus avium* x *Prunus cerasus*  
Bodine, E.W. and L.W. Durrell, 1941
- Prunus besseyi*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus cerasifera*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus communis*  
Bodine, E.W. and L.W. Durrell, 1941
- Prunus davidiana* (*Amygdalus davidiana*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus domestica*  
Bodine, E.W., 1937  
Bodine, E.W. and L.W. Durrell, 1941  
Cochran, L.C. and L.M. Hutchins, 1937, 1938
- Prunus insititia*  
Bodine, E.W. and L.W. Durrell, 1941
- Prunus mexicana*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus mume*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus munsoniana*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus persica*  
Bennett, C.W., 1944  
Bodine, E.W., 1937, 1942  
Bodine, E.W. and L.W. Durrell, 1941  
Cation, D., 1934  
Cochran, L.C. and L.M. Hutchins, 1937, 1938  
Cochran, L.C. and John L. Rue, 1944, 1946  
Hutchins, L.M., 1933  
Hutchins, Lee M. and L.C. Cochran, 1940  
Kunkel, L.O., 1938  
Richards, B.L. and L.C. Cochran, 1956  
Stout, Gilbert L., 1939  
Wilson, Norton S., Laurence S. Jones and L.C. Cochran, 1955

## VIRUS

## V. PEACH MOSAIC (cont.)

- Prunus persica* var. *nectarina*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus salicina*  
Bodine, E.W. and L.W. Durrell, 1941  
Richards, B.L. and L.C. Cochran, 1956
- Prunus salicina* x *Prunus simonii*  
Bodine, E.W. and L.W. Durrell, 1941
- Prunus tangutica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus tomentosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. PEACH MOTTLE Blodgett 1941

- Prunus avium*  
Blodgett, Earle C., 1941
- Prunus cerasus*  
Blodgett, Earle C., 1941
- Prunus persica*  
Blodgett, Earle C., 1941

## V. PEACH NECROTIC LEAF SPOT Cation 1942

- Prunus avium*  
Cation, Donald, 1942  
Richards, B.L. and L.C. Cochran, 1956
- Prunus besseyi*  
Fridlund, Paul R., 1954
- Prunus besseyi* x *Prunus hortulana*  
Fridlund, Paul R., 1954
- Prunus besseyi* x *Prunus salicina*  
Fridlund, Paul R., 1954
- Prunus cerasus*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus persica*  
Cation, Donald, 1942  
Richards, B.L. and L.C. Cochran, 1956
- Prunus persica* var. *nectarina*  
Richards, B.L. and L.C. Cochran, 1956
- Rosa* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. PEACH RED SUTURE Bennett 1926 ((This virus is related to the longer known V. Peach yellows (q.v.).))

- Prunus persica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. PEACH RING SPOT Cochran and Hutchins 1941

- Cucumis sativus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1949  
Fulton, Robert W., 1956  
Gilmer, R.M., 1955  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Hobbs, Gordon A., 1951  
Milbrath, J.A., 1953  
Tomlinson, N., 1955  
Willison, R.S., 1951
- Cucurbita maxima*  
Milbrath, J.A., 1957
- Cucurbita pepo*  
Hobbs, Gordon A., 1951
- Cyamopsis tetragonaloba*  
Fulton, Robert W., 1956
- Malus sylvestris*  
Cochran, L.C., 1950
- Phaseolus vulgaris*  
Yarwood, C.E., 1957
- Prunus alabamensis*  
Gilmer, R.M., 1955
- Prunus alleghaniensis*  
Gilmer, R.M., 1955
- Prunus americana*  
Gilmer, R.M., 1954, 1955  
Moore, J. Duain and G.W. Keitt, 1946
- Prunus amygdalus*  
Cochran, L.C. and Lee M. Hutchins, 1941
- Prunus andersoni*  
Gilmer, R.M., 1955
- Prunus angustifolia*  
Gilmer, R.M., 1955
- Prunus apetala*  
Gilmer, R.M., 1954, 1955
- Prunus armeniaca*  
Gilmer, R.M., 1954, 1955

## VIRUS

## V. PEACH RING SPOT (cont.)

- Prunus armeniaca*  
Posnette, A.F., 1954  
Yarwood, C.E., 1957
- Prunus armeniaca* var. *mandshurica*  
Gilmer, R.M., 1955
- Prunus avium*  
Cation, Donald, 1952  
Cochran, L.C. and Lee M. Hutchins, 1941  
Gilmer, R.M., 1954, 1955  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Hildebrand, E.M., 1944  
Milbrath, J.A., 1950  
Millikan, D.F., 1953, 1955  
Posnette, A.F., 1954  
Posnette, A.F. and R. Cropley, 1956  
Tomlinson, N., 1955  
Willison, R.S. and G.H. Berkeley, 1946
- Prunus besseyi*  
Gilmer, R.M., 1954, 1955  
Moore, J. Duain and G.W. Keitt, 1946
- Prunus blirieana*  
Gilmer, R.M., 1954, 1955
- Prunus bokhariensis*  
Gilmer, R.M., 1955
- Prunus bucharica*  
Gilmer, R.M., 1955
- Prunus campanulata*  
Gilmer, R.M., 1955
- Prunus canescens*  
Gilmer, R.M., 1954, 1955
- Prunus caroliniana*  
Gilmer, R.M., 1954, 1955
- Prunus cerasifera*  
Cochran, L.C. and Lee M. Hutchins, 1941  
Gilmer, R.M., 1954, 1955  
Posnette, A.F., 1954  
Willison, R.S. and G.H. Berkeley, 1946
- Prunus cerasifera* var. *pissardii*  
Gilmer, R.M., 1954
- Prunus cerasoides*  
Gilmer, R.M., 1955
- Prunus cerasus*  
Berkeley, G.H. and R.S. Willison, 1948  
Cation, Donald, 1949, 1952  
Fink, Harry C., 1950, 1955  
Fulton, Robert W., 1956  
Gilmer, R.M., 1954, 1955  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Hildebrand, E.M., 1944  
Milbrath, J.A., 1950, 1952, 1957  
Millikan, D.F. and A.D. Hibbard, 1952  
Moore, J. Duain and G.W. Keitt, 1944, 1946  
Moore, J. Duain and D.A. Slack, 1952  
Nyland, George, 1952  
Parker, K.G. and L.C. Cochran, 1951  
Posnette, A.F., 1954  
Willison, R.S. and G.H. Berkeley, 1946
- Prunus cistena* \*  
Gilmer, R.M., 1954, 1955  
Young, H.C., Jr., 1951
- Prunus communis*  
Gilmer, R.M., 1954, 1955
- Prunus conradinae*  
Gilmer, R.M., 1955
- Prunus cyclamina*  
Gilmer, R.M., 1955
- Prunus dasycarpa*  
Gilmer, R.M., 1955
- Prunus davidiana* (*Amygdalus davidiana*)  
Gilmer, R.M., 1955
- Prunus demissa*  
Gilmer, R.M., 1955
- Prunus dielsiana* \*  
Gilmer, R.M., 1955
- Prunus domestica*  
Berkeley, G.H., 1947  
Berkeley, G.H. and R.S. Willison, 1948  
Gilmer, R.M., 1954, 1955  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Moore, J. Duain, 1951  
Willison, R.S. and G.H. Berkeley, 1946

## VIRUS

## V. PEACH RING SPOT (cont.)

- Prunus dropmoreana* \*  
Gilmer, R.M., 1954, 1955
- Prunus dunbarii*  
Gilmer, R.M., 1954, 1955
- Prunus effusa* \*  
Gilmer, R.M., 1955
- Prunus emarginata*  
Gilmer, R.M., 1955
- Prunus fasciculata*  
Gilmer, R.M., 1955
- Prunus fenziiana*  
Gilmer, R.M., 1955
- Prunus fontanesiana*  
Gilmer, R.M., 1955
- Prunus fremonti*  
Gilmer, R.M., 1955
- Prunus fruticosa*  
Gilmer, R.M., 1954, 1955
- Prunus gigantea* \*  
Gilmer, R.M., 1955
- Prunus glandulifolia*  
Gilmer, R.M., 1955
- Prunus glandulosa*  
Gilmer, R.M., 1954, 1955
- Prunus gracilis*  
Gilmer, R.M., 1955
- Prunus gravesii*  
Gilmer, R.M., 1955
- Prunus grayana*  
Gilmer, R.M., 1955
- Prunus hillieri* \*  
Gilmer, R.M., 1955
- Prunus hortulana*  
Gilmer, R.M., 1955
- Prunus ilicifolia*  
Gilmer, R.M., 1954, 1955
- Prunus incana*  
Gilmer, R.M., 1955
- Prunus incisa*  
Gilmer, R.M., 1955
- Prunus insititia*  
Gilmer, R.M., 1955
- Prunus jacquemontii*  
Gilmer, R.M., 1955
- Prunus japonica*  
Gilmer, R.M., 1954, 1955
- Prunus juddii*  
Gilmer, R.M., 1955
- Prunus kansuensis*  
Gilmer, R.M., 1955
- Prunus lanata*  
Gilmer, R.M., 1955
- Prunus lannesiana*  
Gilmer, R.M., 1955
- Prunus laucheana*  
Gilmer, R.M., 1955
- Prunus laurocerasus*  
Gilmer, R.M., 1954, 1955
- Prunus lobulata*  
Gilmer, R.M., 1955
- Prunus lusitanica*  
Gilmer, R.M., 1955
- Prunus lycioides*  
Gilmer, R.M., 1955
- Prunus lyoni*  
Gilmer, R.M., 1954, 1955
- Prunus maackii*  
Gilmer, R.M., 1954, 1955
- Prunus mahaleb*  
Berkeley, G.H. and R.S. Willison, 1948  
Cation, Donald, 1949, 1952  
Cochran, L.C. and Lee M. Hutchins, 1941  
Fink, Harry C., 1950, 1955  
Gilmer, R.M., 1954, 1955  
Milbrath, J.A., 1957  
Posnette, A.F., 1954  
Willison, R.S. and G.H. Berkeley, 1946
- Prunus maritima*  
Gilmer, R.M., 1954, 1955
- Prunus maximowiczii*  
Gilmer, R.M., 1955

## VIRUS

## V. PEACH RING SPOT (cont.)

- Prunus mexicana*  
Gilmer, R.M., 1955
- Prunus meyeri*  
Gilmer, R.M., 1955
- Prunus mira*  
Gilmer, R.M., 1955
- Prunus monticola*  
Gilmer, R.M., 1955
- Prunus mugus*  
Gilmer, R.M., 1955
- Prunus munbe*  
Gilmer, R.M., 1955
- Prunus munsoniana*  
Gilmer, R.M., 1955
- Prunus nana*  
Gilmer, R.M., 1954, 1955
- Prunus newporti*  
Gilmer, R.M., 1954, 1955
- Prunus nigra*  
Gilmer, R.M., 1955
- Prunus nipponica*  
Gilmer, R.M., 1955
- Prunus nipponica* var. *kurilensis*  
Gilmer, R.M., 1955
- Prunus padus*  
Gilmer, R.M., 1954, 1955
- Prunus padus* var. *cornuta*  
Gilmer, R.M., 1955
- Prunus pensylvanica*  
Gilmer, R.M., 1954, 1955
- Prunus persica*  
Berkeley, G.H., 1947  
Berkeley, G.H. and R.S. Willison, 1948  
Cation, Donald, 1949  
Cochran, L.C., 1950, 1952  
Cochran, L.C. and Lee M. Hutchins, 1941  
Cochran, L.C. and R.L. McClain, 1951  
Fink, Harry C., 1950, 1955  
Gilmer, R.M., 1954, 1955, 1956  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Hildebrand, E.M., 1944  
Moore, J. Duain and G.W. Keitt, 1944  
Posnette, A.F., 1954  
Willison, R.S. and G.H. Berkeley, 1946  
Yarwood, C.E., 1957  
Young, H.C., Jr., 1951
- Prunus petunnikowi*  
Gilmer, R.M., 1955
- Prunus pilosiuscula*  
Gilmer, R.M., 1955
- Prunus pleiocerasus*  
Gilmer, R.M., 1955
- Prunus potanini* \*  
Gilmer, R.M., 1955
- Prunus pumila*  
Gilmer, R.M., 1955  
Moore, J. Duain and G.W. Keitt, 1946
- Prunus reverchoni*  
Gilmer, R.M., 1955
- Prunus rufa*  
Gilmer, R.M., 1955
- Prunus salicina*  
Gilmer, R.M., 1953, 1954, 1955  
Willison, R.S. and G.H. Berkeley, 1946
- Prunus sargentii*  
Gilmer, R.M., 1955
- Prunus scopulorum*  
Gilmer, R.M., 1955
- Prunus serotina*  
Fink, Harry C., 1950, 1955  
Gilmer, R.M., 1954, 1955
- Prunus serrula*  
Gilmer, R.M., 1955
- Prunus serrulata*  
Gilmer, R.M., 1954, 1955  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Milbrath, J.A., 1952  
Tomlinson, N., 1955
- Prunus setulosa*  
Gilmer, R.M., 1955
- Prunus sibirica*  
Gilmer, R.M., 1955

## VIRUS

## V. PEACH RING SPOT (cont.)

- Prunus sieboldii*  
Gilmer, R. M., 1954, 1955
- Prunus simonii*  
Gilmer, R. M., 1955
- Prunus skinneri*  
Gilmer, R. M., 1955
- Prunus slavini*  
Gilmer, R. M., 1955
- Prunus spinosa*  
Gilmer, R. M., 1955
- Prunus ssiiori*  
Gilmer, R. M., 1955
- Prunus subcordata*  
Gilmer, R. M., 1955
- Prunus subhirtella*  
Gilmer, R. M., 1955
- Prunus sultana*  
Gilmer, R. M., 1955
- Prunus tenella* (*Amygdalus nana*)  
Gilmer, R. M., 1954, 1955
- Prunus tomentosa*  
Fink, Harry C., 1950, 1955  
Gilmer, R. M., 1954, 1955, 1956  
Gilmer, R. M., K. D. Brase and K. G. Parker, 1957  
Young, H. C., Jr., 1951
- Prunus triloba*  
Gilmer, R. M., 1954, 1955
- Prunus umbellata*  
Gilmer, R. M., 1955
- Prunus ursina*  
Gilmer, R. M., 1955
- Prunus ussuriensis*  
Gilmer, R. M., 1955
- Prunus venulosa*  
Gilmer, R. M., 1955
- Prunus virginiana*  
Gilmer, R. M., 1955  
Moore, J. Duain and G. W. Keitt, 1946
- Prunus virginiana* var. *demissa*  
Gilmer, R. M., 1954
- Prunus yedoensis*  
Gilmer, R. M., 1955
- Rosa multiflora*  
Gilmer, R. M., 1956
- Rosa* spp.  
Cochran, L. C., 1950
- Vigna sinensis*  
Milbrath, J. A., 1953  
Thornberry, H. H., 1957
- V. PEACH ROSETTE ((E. F. Smith 1891)) McClintock  
*Prunus amygdalus* 1923  
McClintock, J. A., 1923
- Prunus angustifolia*  
McClintock, J. A., 1923
- Prunus armeniaca*  
McClintock, J. A., 1923
- Prunus avium*  
McClintock, J. A., 1923
- Prunus domestica*  
McClintock, J. A., 1923, 1931
- Prunus persica*  
KenKnight, Glenn, 1957  
Kunkel, L. O., 1936, 1938  
McClintock, J. A., 1923, 1931
- Prunus pumila*  
McClintock, J. A., 1931
- V. PEACH ROSETTE MOSAIC Cation 1933  
*Prunus cerasus*  
Fink, Harry C., 1955
- Prunus domestica*  
Cation, Donald, 1942
- Prunus insititia*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Prunus persica*  
Cation, Donald, 1942  
Hildebrand, E. M., 1941
- Prunus salicina*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Prunus tomentosa*  
Fink, Harry C., 1955

## VIRUS

## V. PEACH STUNT \*

- Cucurbita maxima*  
Milbrath, J. A., 1956
- Prunus cerasus*  
Milbrath, J. A., 1957
- V. PEACH WART Blodgett 1943  
*Prunus avium*  
Zeller, S. M. and J. A. Milbrath, 1945
- Prunus persica*  
Blodgett, Earle C., 1941, 1943, 1946  
Zeller, S. M. and J. A. Milbrath, 1945
- V. PEACH WESTERN X DISEASE Reeves and Hutchins  
*Apium graveolens* var. *dulce* 1941  
Jensen, D. D., 1955, 1957
- Daucus carota* var. *sativa*  
Weathers, Lewis G. and George W. Cochran, 1950
- Petroselinum crispum*  
Weathers, Lewis G. and George W. Cochran, 1950
- Prunus americana* var. *mollis*  
Schneider, Henry, 1945
- Prunus armeniaca*  
Rawlins, T. E. and H. Earl Thomas, 1941
- Prunus avium*  
Jensen, D. D. and H. Earl Thomas, 1954, 1955  
Kaloostian, George H., 1951  
Kaloostian, George H., Mervin W. Nielson and L. S. Jones, 1951  
Lott, T. B., 1950  
Rawlins, T. E., 1939  
Rawlins, T. E. and W. T. Horne, 1931  
Rawlins, T. E. and K. G. Parker, 1934  
Rawlins, T. E. and H. Earl Thomas, 1941  
Richards, B. L., L. M. Hutchins and E. L. Reeves, 1949  
Richards, B. L., E. L. Reeves and Lee M. Hutchins, 1946  
Schneider, Henry, 1945  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T. E. Rawlins, 1941  
Wadley, Bryce N., 1952  
Wilks, Jack M. and J. A. Milbrath, 1956  
Zeller, S. M. and J. A. Milbrath, 1948, 1950
- Prunus avium* on *Prunus avium*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus avium* on *Prunus mahaleb*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus besseyi*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus cerasus*  
Kaloostian, George H., 1951  
Nielson, Mervin W. and Laurence S. Jones, 1954  
Rawlins, T. E. and K. G. Parker, 1934  
Rawlins, T. E. and H. Earl Thomas, 1941  
Richards, B. L., L. M. Hutchins and E. L. Reeves, 1949  
Richards, B. L., E. L. Reeves and Lee M. Hutchins, 1946  
Schneider, Henry, 1945  
Wilks, Jack M. and J. A. Milbrath, 1956  
Zeller, S. M. and J. A. Milbrath, 1948, 1950
- Prunus cerasus* on *Prunus avium*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus cerasus* on *Prunus mahaleb*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus communis*  
Rawlins, T. E. and H. Earl Thomas, 1941
- Prunus communis* x *Prunus fenzliana*  
Rawlins, T. E. and H. Earl Thomas, 1941
- Prunus davidiana* (*Amygdalus davidiana*)  
Rawlins, T. E. and H. Earl Thomas, 1941
- Prunus davidiana* x *Prunus communis*  
Rawlins, T. E. and H. Earl Thomas, 1941
- Prunus demissa*  
Richards, B. L. and Lee M. Hutchins, 1941  
Richards, B. L., L. M. Hutchins and E. L. Reeves, 1949  
Wilks, Jack M. and J. A. Milbrath, 1956  
Zeller, S. M. and J. A. Milbrath, 1950
- Prunus fenzliana*  
Rawlins, T. E. and H. Earl Thomas, 1941

## VIRUS

## V. PEACH WESTERN X DISEASE (cont.)

- Prunus mahaleb*  
Rawlins, T.E. and H. Earl Thomas, 1941  
Schneider, Henry, 1945
- Prunus mira*  
Rawlins, T.E. and H. Earl Thomas, 1941
- Prunus mira x Prunus persica*  
Rawlins, T.E. and H. Earl Thomas, 1941
- Prunus persica*  
Jensen, D.D., 1953, 1955, 1957  
Jensen, D.D. and H. Earl Thomas, 1954, 1955  
Kaloostian, George H., 1951  
Keener, Paul D., 1953  
Nielson, Mervin W. and Laurence S. Jones, 1954  
Nyland, George, 1955  
Nyland, George and Archie Schlocker, 1951  
Rawlins, T.E. and H. Earl Thomas, 1941  
Richards, B.L. and L.C. Cochran, 1956  
Richards, B.L. and Lee M. Hutchins, 1941  
Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949  
Schneider, Henry, 1945  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T.E. Rawlins, 1941  
Thomas, H. Earl, T.E. Rawlins and K.G. Parker, 1940  
Wadley, Bryce N., 1952  
Weathers, Lewis G. and George W. Cochran, 1950  
Wilks, Jack M. and J.A. Milbrath, 1956  
Wolfe, H.R., 1955  
Wolfe, H.R., E.W. Anthon and L.S. Jones, 1950  
Zeller, S.M. and J.A. Milbrath, 1948, 1950
- Prunus persica* var. *nectarina*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus tomentosa*  
Richards, B.L. and L.C. Cochran, 1956
- Prunus virginiana*  
Rawlins, T.E. and H. Earl Thomas, 1941  
Richards, B.L. and L.C. Cochran, 1956  
Richards, B.L., L.M. Hutchins and E.L. Reeves, 1949  
Richards, B.L., E.L. Reeves and Lee M. Hutchins, 1946  
Zeller, S.M. and J.A. Milbrath, 1948
- Prunus virginiana* var. *demissa*  
Kaloostian, George H., 1951  
Richards, B.L. and L.C. Cochran, 1956
- Vinca minor*  
Weathers, Lewis G. and George W. Cochran, 1950
- V. PEACH X DISEASE Stoddard 1938
- Datura stramonium*  
Slack, Derald A., 1952
- Daucus carota* var. *sativa*  
Kunkel, L.O., 1944  
Slack, Derald A., 1952
- Fragaria vesca*  
Slack, Derald A., 1952
- Lycopersicon esculentum*  
Hildebrand, E.M., 1953  
Kunkel, L.O., 1944
- Petroselinum crispum*  
Kunkel, L.O., 1944  
Slack, Derald A., 1952
- Prunus americana*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1953
- Prunus amygdalus*  
Palmiter, D.H. and E.M. Hildebrand, 1943
- Prunus armeniaca*  
Palmiter, D.H. and E.M. Hildebrand, 1943
- Prunus armeniaca* var. *mandshurica*  
Hildebrand, E.M., 1953
- Prunus avium*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus besseyi*  
Fridlund, Paul R., 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1943, 1953

## VIRUS

## V. PEACH X DISEASE (cont.)

- Prunus cerasus*  
Fridlund, Paul R., 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1953  
Palmiter, D.H. and K.G. Parker, 1948  
Parker, K.G. and D.H. Palmiter, 1948
- Prunus communis*  
Hildebrand, E.M., 1953
- Prunus demissa* var. *melanocarpa*  
Hildebrand, E.M., 1953
- Prunus domestica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus dunbarii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus glandulosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus hortulana*  
Hildebrand, E.M., 1953
- Prunus japonica*  
Fridlund, Paul R., 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1953
- Prunus lannesiana*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus maackii*  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus mahaleb*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus makii* \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus maritima*  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus munsoniana*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus newporti*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus padus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus pensylvanica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus persica*  
Fridlund, Paul R., 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1943, 1953  
Hildebrand, E.M. and D.H. Palmiter, 1940  
Kunkel, L.O., 1944  
Palmiter, D.H. and E.M. Hildebrand, 1943  
Palmiter, D.H. and K.G. Parker, 1948  
Parker, K.G. and D.H. Palmiter, 1948  
Slack, Derald A., 1952  
Stoddard, E.M., 1938, 1947  
Thornberry, H.H., 1954
- Prunus persica* var. *nectarina*  
Palmiter, D.H. and E.M. Hildebrand, 1943
- Prunus persica* var. *nucipersica*  
Hildebrand, E.M., 1953

## VIRUS

- V. PEACH X DISEASE (cont.)
- Prunus pumila*  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Slack, Derald A., 1952
- Prunus salicina*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus serotina*  
Hildebrand, E.M., 1953
- Prunus serrulata*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus sieboldi*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus spinosa*  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus tomentosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gilmer, R.M., 1951  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- Prunus virginiana*  
Fridlund, Paul R., 1954  
Gilmer, R.M., 1951, 1954  
Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954  
Hildebrand, E.M., 1953  
Hildebrand, E.M. and D.H. Palmiter, 1940  
Palmiter, D.H. and E.M. Hildebrand, 1943  
Palmiter, D.H. and K.G. Parker, 1948  
Parker, K.G. and D.H. Palmiter, 1948  
Stoddard, E.M., 1947  
Thornberry, H.H., 1946, 1954
- Vinca minor*  
Kunkel, L.O., 1944  
Slack, Derald A., 1952
- Vinca rosea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. PEACH YELLOW BUD MOSAIC Thomas et al. 1944
- Cucumis sativus*  
Yarwood, C.E., 1956
- Cyamopsis tetragonoloba*  
Yarwood, C.E., 1956
- Erodium cicutarium*  
Karle, Harry P., 1957
- Kerria japonica*  
Thomas, H. Earl and T.E. Rawlins, 1939
- Lactuca virosa*  
Karle, Harry P., 1957
- Nicotiana tabacum*  
Karle, Harry P., 1957  
Yarwood, C.E., 1956
- Phaseolus vulgaris*  
Karle, Harry P., 1957  
Yarwood, C.E., 1956  
Yarwood, C.E. and H.E. Thomas, 1954
- Prunus amygdalus*  
Thomas, H. Earl, 1940  
Thomas, H. Earl, C. Emlen Scott, E.E. Wilson and J.H. Freitag, 1944
- Prunus andersoni*  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T.E. Rawlins, 1939
- Prunus armeniaca*  
Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957  
Thomas, H. Earl and T.E. Rawlins, 1939  
Thomas, H. Earl, C. Emlen Scott, E.E. Wilson and J.H. Freitag, 1944
- Prunus avium*  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T.E. Rawlins, 1939
- Prunus communis*  
Thomas, H. Earl and T.E. Rawlins, 1939
- Prunus lusitanica*  
Thomas, H. Earl, 1940
- Prunus mume*  
Thomas, H. Earl and T.E. Rawlins, 1939

## VIRUS

- V. PEACH YELLOW BUD MOSAIC (cont.)
- Prunus persica*  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955  
Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957  
Thomas, H. Earl, 1940  
Thomas, H. Earl and T.E. Rawlins, 1939  
Thomas, H. Earl, C. Emlen Scott, E.E. Wilson and J.H. Freitag, 1944  
Wagon, H. Keith and James R. Breece, 1955  
Yarwood, C.E., 1956, 1957  
Yarwood, C.E. and H.E. Thomas, 1954
- Prunus salicina x Prunus simonii*  
Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957
- Prunus tomentosa*  
Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957
- Rosa odorata*  
Thomas, H. Earl and L.M. Massey, 1939
- Rosa spp.*  
Thomas, H. Earl and L.M. Massey, 1939  
Thomas, H. Earl and T.E. Rawlins, 1939
- Rubus idaeus*  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- Rubus procerus*  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- Rubus spp.*  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- Rubus ursinus*  
Alcorn, Stanley M., Stephen Wilhelm and H. Earl Thomas, 1955
- Stellaria media*  
Karle, Harry P., 1957
- Vigna sinensis*  
Karle, Harry P., 1957  
Yarwood, C.E., 1956, 1957  
Yarwood, C.E. and H.E. Thomas, 1954
- V. PEACH YELLOWS ((E.F. Smith 1888)) Kunkel 1933
- Prunus armeniaca*  
Manns, T.F., 1942
- Prunus cerasifera*  
Manns, T.F., 1942
- Prunus cerasifera var. pissardii*  
Manns, T.F., 1942
- Prunus communis*  
Manns, T.F., 1942
- Prunus domestica*  
Manns, T.F., 1942
- Prunus insititia*  
Manns, T.F., 1942
- Prunus munsoniana*  
Manns, T.F., 1942
- Prunus munsoniana x Prunus salicina*  
Manns, T.F., 1942
- Prunus persica*  
Blake, M.A., Mel. T. Cook and C.H. Connors, 1921  
Cook, M.T., 1922  
Kunkel, L.O., 1936, 1938  
Manns, T.F., 1936, 1942
- Prunus persica var. nectarina*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus salicina*  
Manns, T.F., 1936, 1942
- Prunus simonii*  
Manns, T.F., 1942
- V. PEAR MOSAIC Khristov 1935
- Cydonia oblonga*  
Posnette, A.F., 1957
- Pyrus communis*  
Posnette, A.F., 1957
- V. PEAR RED MOTTLE \*
- Cydonia oblonga*  
Posnette, A.F., 1957
- Pyrus communis*  
Posnette, A.F., 1957

- VIRUS
- V. PEAR STONY PIT Kienholz 1939  
*Pyrus communis*  
 Kienholz, J.R., 1939
- V. PEAR VEIN YELLOWS \*  
*Pyrus communis*  
 Posnette, A.F., 1957
- V. (PECAN) BUNCH \*  
*Carya illinoensis*  
 Cole, J.R., 1937  
*(Hicoria) aquatica*  
 Cole, J.R., 1937
- V. PELARGONIUM LEAF CURL Pape 1927  
*Antirrhinum majus*  
 McWhorter, Frank P., 1957  
*Chenopodium amaranticolor*  
 Hollings, M., 1956  
*Pelargonium hederaceum* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Pelargonium hortorum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Jones, L.K., 1938, 1940  
*Pelargonium* spp.  
 McWhorter, Frank P., 1957
- V. PELARGONIUM MOSAIC Jones 1940  
*Pelargonium hortorum*  
 Jones, L.K., 1938, 1940
- V. PELARGONIUM RING SPOT \*  
*Pelargonium hortorum*  
 Hollings, M., 1957  
*Pelargonium peltatum*  
 Hollings, M., 1957
- V. PEONY LEAF CURL \*  
*Paeonia officinalis*  
 Brierley, Philip and Paul Lorentz, 1957
- V. PEONY RING SPOT Dufrenoy 1934; Green 1935  
*Paeonia* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. PETUNIA MOSAIC Johnson 1926  
*Lycopersicon esculentum*  
 Johnson, J., 1926, 1927  
*Nicotiana glauca*  
 Johnson, J., 1926, 1927  
*Nicotiana glutinosa*  
 Johnson, J., 1926, 1927  
*Nicotiana rustica*  
 Johnson, J., 1926, 1927  
*Nicotiana tabacum*  
 Johnson, J., 1926, 1927  
*Petunia violacea*  
 Johnson, J., 1926, 1927  
*Physalis pubescens*  
 Johnson, J., 1926, 1927  
*Phytolacca decandra*  
 Johnson, J., 1926, 1927  
*Solanum nigrum*  
 Johnson, J., 1926
- V. PHORMIUM YELLOW LEAF Boyce et al. 1951  
*Phormium tenax*  
 Boyce, W.R., 1958
- V. PHYSALIS FLORIDANA YELLOW NET Webb 1955  
*Datura stramonium*  
 Webb, R.E., 1955  
*Physalis angulata*  
 Webb, R.E., 1955  
*Physalis floridana*  
 Webb, R.E., 1955
- V. PHYSALIS HETEROPHYLLA MOSAIC \*  
*Physalis heterophylla*  
 Walker, M.N., 1925  
*Physalis pubescens*  
 Walker, M.N., 1925
- VIRUS
- V. (PHYSALIS LONGIFOLIA) MOSAIC \*  
*Physalis longifolia*  
 Melhus, I.E., 1922
- V. (PHYSALIS) MOSAIC \*  
*Capsicum frutescens* (*Capsicum annuum*)  
 Melhus, I.E., 1922  
*Cucumis sativus*  
 Walker, M.N., 1925, 1926  
*Lycopersicon esculentum*  
 Melhus, I.E., 1922  
 Walker, M.N., 1926  
*Nicandra physalodes*  
 Fernow, K.H., 1923  
*Petunia hybrida*  
 Melhus, I.E., 1922  
*Physalis pubescens*  
 Walker, M.N., 1926  
*Solanum melongena*  
 Melhus, I.E., 1922  
*Solanum tuberosum*  
 Melhus, I.E., 1922
- V. PHYSALIS PUBESCENS MOSAIC \*  
*Nicotiana glutinosa*  
 Walker, M.N., 1925
- V. PHYSALIS SUBGLABRATA MOSAIC \*  
*Cucumis sativus*  
 Walker, M.N., 1925  
*Physalis pubescens*  
 Walker, M.N., 1925  
*Physalis subglabrata*  
 Walker, M.N., 1925
- V. PIGEON PEA STERILITY MOSAIC Capoor 1952  
*Cajanus cajan*  
 Capoor, S.P., 1952
- V. PLANTAGO MOSAIC Gol'din 1953 ((Distinct from  
 V. Tobacco mosaic.))  
*Nicotiana tabacum*  
 McKinney, H.H., 1943
- V. PLUM BARK SPLIT Posnette 1953  
*Prunus cerasifera*  
 Posnette, A.F. and Christina E. Ellenberger, 1957  
*Prunus domestica*  
 Posnette, A.F. and Christina E. Ellenberger, 1957
- V. PLUM FRUIT CRINKLE \*  
*Prunus* spp.  
 Chamberlain, E.E., J.D. Atkinson and J.A.  
 Hunter, 1959
- V. PLUM LINE PATTERN Cation 1941 ((May be identi-  
 cal with V. Apple mosaic Gilmer 1956.))  
*Prunus armeniaca*  
 Bodine, E.W. and L.W. Durrell, 1941  
 Willison, R.S., 1945  
*Prunus avium*  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1945  
 Zeller, S.M. and J.A. Milbrath, 1942  
*Prunus cerasifera*  
 Cochran, L.C. and L.M. Hutchins, 1937  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Richards, B.L. and L.C. Cochran, 1956  
 Thomas, H. Earl and T.E. Rawlins, 1939  
 Willison, R.S., 1945  
*Prunus cerasus*  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1945  
*Prunus domestica*  
 Bodine, E.W. and L.W. Durrell, 1941  
 Cochran, L.C. and L.M. Hutchins, 1937, 1938  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Moore, J. Duain and H.R. Cameron, 1956  
 Willison, R.S., 1945  
*Prunus hybrid*  
 Richards, B.L. and L.C. Cochran, 1956

## VIRUS

## V. PLUM LINE PATTERN (cont.)

- Prunus mahaleb*  
Cation, Donald, 1941  
Willison, R.S., 1945
- Prunus persica* (*Amygdalus persica*)  
Cation, Donald, 1941  
Cochran, L.C. and L.M. Hutchins, 1937, 1938  
Richards, B.L. and L.C. Cochran, 1956  
Willison, R.S., 1945
- Prunus salicina*  
Bodine, E.W. and L.W. Durrell, 1941  
Cation, Donald, 1941  
Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
Willison, R.S., 1945
- Prunus serrulata*  
Richards, B.L. and L.C. Cochran, 1956  
Zeller, S.M. and J.A. Milbrath, 1942
- V. PLUM WHITE SPOT Thomas and Rawlins 1951
- Prunus americana* x *Prunus salicina*  
Valleau, W.D., 1932
- Prunus domestica*  
Valleau, W.D., 1932
- Prunus persica*  
Thomas, H. Earl and T.E. Rawlins, 1939  
Valleau, W.D., 1932
- Prunus salicina*  
Thomas, H. Earl and T.E. Rawlins, 1939  
Valleau, W.D., 1932
- V. POISON HEMLOCK RING SPOT Freitag and Severin
- Anethum graveolens* 1945  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Anthriscus cerefolium*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Apium graveolens* var. *dulce*  
Freitag, Julius H. and Henry H.P. Severin, 1939, 1945
- Apium graveolens* var. *rapaceum*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Conium maculatum*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Coriandrum sativum*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Daucus carota* var. *sativa*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Pastinaca sativa*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Petroselinum crispum*  
Freitag, Julius H. and Henry H.P. Severin, 1939, 1945
- Petroselinum crispum* var. *latifolium* \*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- Petroselinum hortense* var. *radicosum* \*  
Freitag, Julius H. and Henry H.P. Severin, 1945
- V. POKEWEED MOSAIC \*  
*Physalis pubescens*  
Walker, M.N., 1924, 1925
- Phytolacca decandra*  
Allard, H.A., 1918  
Fernow, Karl Hermann, 1925
- V. PHONY PEACH ((Neal 1921)) Hutchins 1930
- Prunus amygdalus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus angustifolia*  
Bruer, H.L. and C.E. Shepard, 1952  
Bruer, H.L., C.E. Shepard and T.D. Persons, 1951  
Cochran, L.C., J.H. Weinberger and W.F. Turner, 1951  
Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953  
Hutchins, Lee M. and John L. Rue, 1949  
KenKnight, Glenn, H.L. Bruer and C.E. Shepard, 1951
- Prunus armeniaca*  
Hutchins, Lee M. and John L. Rue, 1949
- Prunus davidiana* (*Amygdalus davidiana*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus hortulana*  
Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953

## VIRUS

## V. PHONY PEACH (cont.)

- Prunus hortulana*  
Hutchins, Lee M. and John L. Rue, 1949
- Prunus mexicana*  
Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953  
Hutchins, Lee M. and John L. Rue, 1949
- Prunus mume*  
Hutchins, Lee M. and John L. Rue, 1949
- Prunus munsoniana*  
Bruer, H.L. and C.E. Shepard, 1952
- Prunus persica*  
Hutchins, L.M., 1929, 1939  
Hutchins, Lee M., L.C. Cochran, W.F. Turner and J.H. Weinberger, 1953  
Hutchins, Lee M. and John L. Rue, 1949  
KenKnight, Glenn, 1957
- Prunus persica* var. *nectarina*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Prunus umbellata*  
Bruer, H.L. and C.E. Shepard, 1952  
Bruer, H.L., C.E. Shepard and T.D. Persons, 1951
- Prunus umbellata* var. *injucunda*  
Bruer, H.L. and C.E. Shepard, 1952  
Bruer, H.L., C.E. Shepard and T.D. Persons, 1951
- V. POTATO A Murphy and McKay 1932
- Lycium barbarum*  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Lycium halimifolium*  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Lycium rhombifolium*  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Lycopersicon esculentum*  
Doolittle, S.P., 1928  
Jarrett, Phyllis H., 1930  
Krantz, F.A. and G.R. Bisby, 1921  
Quanjer, H.M., 1920  
Schultz, E.S. and Donald Folsom, 1923  
Smith, J. Henderson, 1928  
Stover, W.G., 1928
- Lycopersicon pimpinellifolium*  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Nicandra physalodes*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Nicotiana glutinosa*  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- Nicotiana sylvestris*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Dykstra, T.P., 1939  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Nicotiana tabacum*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bawden, F.C., 1936  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Dykstra, T.P., 1936, 1939  
Dykstra, T.P. and W.C. Whitaker, 1938  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- Petunia hybrida*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Solanum demissum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953



## VIRUS

## V. POTATO A (cont.)

- Solanum demissum* x *Solanum tuberosum* var. *aquila* \*  
Raymer, W.B. and J.A. Milbrath, 1957
- Solanum nigrum*  
Schultz, E.S. and Donald Folsom, 1923
- Solanum tuberosum*  
Abbott, E.V., 1929  
Bawden, F.C., 1936  
Cockerham, George, 1943  
Dykstra, T.P., 1935, 1936, 1939  
Dykstra, T.P. and W.C. Whitaker, 1938  
Goss, R.W., 1929  
Hoggan, Isme A., 1927  
Johnson, James, 1929  
Koch, Karl and James Johnson, 1935  
MacLachlan, D.S. and R.H. Larson, 1953  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
McKay, M.B. and T.P. Dykstra, 1932  
Peterson, Paul D. and H.H. McKinney, 1938  
Porter, D.R., 1935  
Schultz, E.S., C.F. Clark, R. Bonde, W.P. Raleigh and F.J. Stevenson, 1934  
Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
Schultz, E.S., C.F. Clark and F.J. Stevenson, 1940  
Schultz, E.S. and Donald Folsom, 1923, 1925  
Schultz, E.S. and W.P. Raleigh, 1936  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946  
Young, P.A., 1930  
Young, P.A. and H.E. Morris, 1930

## V. POTATO ANECROTIC MOSAIC \*

- Solanum tuberosum*  
Quanjer, H.M., 1931

## V. POTATO AUCUBA MOSAIC Quanjer 1931

- Capsicum frutescens* (*Capsicum annuum*)  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Dennis, R.W.G., 1939
- Chenopodium amaranticolor*  
Hollings, M., 1927
- Datura stramonium*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Dennis, R.W.G., 1939
- Datura stramonium* var. *tatula*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Black, L.M. and W.C. Price, 1940  
Dykstra, T.P., 1939
- Nicotiana sylvestris*  
Dykstra, T.P., 1939
- Nicotiana tabacum*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Black, L.M. and W.C. Price, 1940  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1939
- Petunia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Physalis peruviana*  
Holmes, Francis O., 1942
- Solanum nodiflorum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum tuberosum*  
Atanasoff, D., 1926  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1939  
Quanjer, H.M., 1931
- V. POTATO BUNCH TOP DISEASE \*  
*Lycopersicon esculentum*  
Menzies, J.D., 1950

## VIRUS

## V. (POTATO) GIANT HILL \*

- Solanum tuberosum*  
Porter, D.R., 1935
- V. POTATO LEAF ROLL Appell 1907
- Amaranthus graecizans*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Amaranthus retroflexus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Capsicum frutescens* (*Capsicum annuum*)  
Dykstra, T.P., 1930
- Celosia argentea* var. *cristata*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura aegyptiaca*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Datura chlorantha*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Datura fastuosa*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Datura metel*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Datura stramonium*  
Dykstra, T.P., 1930, 1933  
Kassanis, B., 1952  
Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
Webb, R.E., 1956  
Williams, W. Llewelyn and A. Frank Ross, 1957
- Datura stramonium* var. *tatula*  
Dykstra, T.P., 1930, 1933  
Kassanis, B., 1952  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Gomphrena globosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycopersicon esculentum*  
Burnett, Grover and Leon K. Jones, 1931  
Dykstra, T.P., 1930, 1933  
MacCarthy, H.R., 1954  
Natti, John J., 1953  
Stover, W.G., 1928
- Lycopersicon pimpinellifolium*  
MacCarthy, H.R., 1954
- Nicandra physalodes*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Nicotiana glutinosa*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Nicotiana rustica*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Nicotiana tabacum*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Nolana lanceolata*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Petunia hybrida*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Physalis angulata*  
Hovey, Charles and Reiner Bonde, 1948  
Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
Klostermeyer, E.C., 1953  
MacCarthy, H.R., 1954  
Webb, R.E., R.H. Larson and J.C. Walker, 1952  
Williams, W. Llewelyn and A. Frank Ross, 1957
- Physalis floridana*  
Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
Klostermeyer, E.C., 1953  
MacCarthy, H.R., 1954  
Webb, R.E. and R.H. Larson, 1952  
Webb, R.E., R.H. Larson and J.C. Walker, 1952  
Webb, R.E. and E.S. Schultz, 1954  
Williams, W. Llewelyn and A. Frank Ross, 1957
- Physalis philadelphica*  
MacCarthy, H.R., 1954
- Solanum dulcamara*  
Dykstra, T.P., 1930, 1933
- Solanum nigrum*  
Dykstra, T.P., 1930  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Solanum nigrum* var. *villosum*  
Dykstra, T.P., 1933
- Solanum tuberosum*  
Abbott, E.V., 1929  
Artschwager, Ernest F., 1918  
Atanasoff, D., 1924  
Bald, J.G. and E.M. Hutton, 1950  
Barton-Wright, Eustace and Alan McBain, 1933

## VIRUS

## V. POTATO LEAF ROLL (cont.)

*Solanum tuberosum*

- Bawden, F. C. and B. Kassanis, 1946  
 Broadbent, L., 1946  
 Broadbent, L., R. P. Chaudhuri and L. Kapica, 1950  
 Broadbent, L. and T. W. Tinsley, 1951  
 Davidson, T. R., 1955  
 Davidson, T. R. and G. B. Sanford, 1955  
 Dennis, R. W. G., 1939  
 Dykstra, T. P., 1933  
 Dykstra, T. P. and W. C. Whitaker, 1938  
 Elze, D. L., 1931  
 Folsom, Donald, 1921  
 Gardner, Max W. and James B. Kendrick, 1924  
 Gilbert, Alfred H., 1923, 1928  
 Gilbert, G. H., 1929  
 Goss, R. W., 1929  
 Hoggan, Isme A., 1927  
 Jones, Leon K., 1944  
 Kassanis, B., 1952  
 Kendrick, James B., Sr., 1952  
 Kirkpatrick, Hugh C. and A. Frank Ross, 1952  
 Klostermeyer, E. C., 1953  
 Koch, Karl and James Johnson, 1935  
 Link, G. K. K., 1923  
 Locke, Seth Barton, 1947  
 MacCarthy, H. R., 1954  
 McKay, M. B. and T. P. Dykstra, 1932  
 Porter, D. R., 1935  
 Quanjer, H. M., 1920, 1931  
 Quanjer, H. M. and D. L. Elze, 1930  
 Rich, Avery E., 1949, 1951  
 Schultz, E. S. and R. Bonde, 1929  
 Schultz, E. S., C. F. Clark, R. Bonde, W. P. Raleigh and F. J. Stevenson, 1934  
 Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937  
 Schultz, E. S. and Donald Folsom, 1921, 1923, 1925  
 Sheffield, F. M. L., 1943  
 Smith, Kenneth M., 1929, 1931  
 Stewart, F. C. and Hugh Glasgow, 1930, 1931  
 Webb, R. E., 1956  
 Webb, R. E., R. H. Larson and J. C. Walker, 1952  
 Webb, R. E. and E. S. Schultz, 1954  
 Whitehead, T., 1924, 1931  
 Whitehead, T. and J. F. Currie, 1931  
 Whitehead, T., J. F. Currie and W. Maldwyn Davies, 1932  
 Young, P. A., 1930  
 Young, P. A. and H. E. Morris, 1930
- Vicia faba*  
 (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. POTATO LEAF ROLLING MOSAIC ((Schultz and Folsom 1923)) Folsom 1926; J. Johnson 1929

*Amaranthus caudatus*

(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

*Solanum tuberosum*

- Dykstra, T. P., 1935, 1936  
 Dykstra, T. P. and W. C. Whitaker, 1938  
 Hoggan, Isme A., 1927  
 Johnson, James, 1929  
 McKay, M. B. and T. P. Dykstra, 1932  
 Porter, D. R., 1935  
 Schultz, E. S. and Donald Folsom, 1923, 1925  
 Young, P. A., 1930  
 Young, P. A. and H. E. Morris, 1930

## V. POTATO M \*

*Browallia elata*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Chenopodium album*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Cyamopsis tetragonoloba*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Datura bernhardii*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

## VIRUS

## V. POTATO M \* (cont.)

*Datura metel*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Lycopersicon esculentum*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Nicotiana debneyi*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Physalis philadelphica*

Bagnall, R. H. and R. H. Larson, 1957

*Physalis pubescens*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Saracha umbellata* \*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Solanum melongena*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Solanum nigrum* var. *villosum*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Solanum rostratum*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Solanum sisymbriifolium*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Solanum tuberosum*

Bagnall, R. H. and R. H. Larson, 1957

*Vigna sinensis*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

## V. POTATO NECROTIC \*

*Datura stramonium*

Schultz, E. S. and W. P. Raleigh, 1933

*Lycopersicon esculentum*

Schultz, E. S. and W. P. Raleigh, 1933

*Nicotiana tabacum*

Schultz, E. S. and W. P. Raleigh, 1933

*Solanum tuberosum*

Schultz, E. S. and W. P. Raleigh, 1933

## V. POTATO PARACRINKLE Salaman and LePelley 1930

*Beta vulgaris*

Kassanis, B., 1955

*Browallia elata*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Chenopodium album*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Chenopodium amaranticolor*

Hollings, M., 1956

*Cyamopsis tetragonoloba*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

Yarwood, C. E. and A. H. Gold, 1955

*Datura bernhardii*

Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Datura metel*

Bagnall, R. H. and R. H. Larson, 1957  
 Bagnall, R. H., R. H. Larson and J. C. Walker, 1956

*Dianthus barbatus*

Kassanis, B., 1955

*Dianthus caryophyllus*

Kassanis, B., 1955

*Lycopersicon esculentum*

Dykstra, T. P., 1939

- VIRUS
- V. POTATO PARACRINKLE (cont.)
- Nicotiana debneyi*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Physalis philadelphica*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Physalis pubescens*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Saracha umbellata* \*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Solanum nigrum* var. *villosum*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Solanum rostratum*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Solanum sisymbriifolium*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Solanum tuberosum*  
Alfieri, S.A. and R.F. Stouffer, 1957  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Barton-Wright, Eustace and Alan McBain, 1933  
Dykstra, T.P., 1936, 1939  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Kassanis, B., 1955  
Whitehead, T., 1937
- Vigna sinensis*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- V. POTATO ROSETTE Hutton and Oldaker  
*Lycopersicon esculentum*  
Hutton, E.M. and C.E.W. Oldaker, 1949  
*Nicotiana tabacum*  
Hutton, E.M. and C.E.W. Oldaker, 1949  
*Solanum tuberosum*  
Hutton, E.M. and C.E.W. Oldaker, 1949
- V. POTATO SPINDLE TUBER K.M. Smith 1957  
*Lycopersicon esculentum*  
Stover, W.G., 1928  
*Solanum tuberosum*  
Abbott, E.V., 1929  
Bald, J.G., D.O. Norris and B.T. Dickson, 1941  
Fernow, K.H., 1923  
Folsom, Donald, 1923  
Folsom Donald and E.S. Schultz, 1924  
Goss, R.W., 1926, 1928, 1929, 1930, 1931  
McKay, M.B. and T.P. Dykstra, 1932  
Porter, D.R., 1935  
Schultz, E.S., C.F. Clark, R. Bonde, W.P. Raleigh and F.J. Stevenson, 1934  
Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
Schultz, E.S. and D. Folsom, 1922, 1923, 1925  
Werner, H.O., 1926  
Young, P.A., 1930  
Young, P.A. and H.E. Morris, 1930
- V. POTATO STEM MOTTLE Rozendaal 1947  
*Callistephus chinensis*  
Van der Want, J.P.H., 1955  
*Cuscuta campestris* ✓  
Van der Want, J.P.H., 1955  
*Nicotiana glauca*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana otophora*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
Harrison, B.D., 1957
- VIRUS
- V. POTATO STEM MOTTLE (cont.)  
*Nicotiana tabacum*  
Van der Want, J.P.H., 1955  
*Nicotiana tomentosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tomentosiformis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Solanum tuberosum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. (POTATO) STEM-END BROWNING \*  
*Solanum tuberosum*  
Ross, A. Frank, 1946
- V. POTATO STUNT Cockerham and McGhee 1953  
*Capsicum frutescens* (*Capsicum annuum*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana rustica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Physalis floridana*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Solanum demissum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Solanum nodiflorum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Solanum tuberosum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. POTATO WITCHES' BROOM Hungerford and Dana 1924  
*Lycopersicon esculentum*  
Young, P.A. and H.E. Morris, 1928  
*Nicotiana tabacum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Young, P.A., 1929  
*Solanum tuberosum*  
Kunkel, L.O., 1952  
McKay, M.B. and T.P. Dykstra, 1932  
Porter, D.R., 1935  
Young, P.A., 1930  
Young, P.A. and H.E. Morris, 1928, 1930
- V. POTATO X K.M. Smith 1931  
*Amaranthus gangeticus*  
Hutton, E.M., 1949  
*Amaranthus retroflexus*  
Dykstra, T.P., 1939  
Larson, R.H., 1944  
*Atropa belladonna*  
Larson, R.H., 1944  
*Beta vulgaris*  
Johnson, E.M., 1930  
*Browallia speciosa*  
Dennis, R.W.G., 1939  
*Capsicum frutescens* (*Capsicum annuum*)  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Blodgett, F.M., 1927  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
Hoggan, Isme A., 1927  
Hoyman, Wm. G., 1951  
Johnson, E.M., 1930  
Johnson, James, 1925, 1927  
Larson, R.H., 1947  
Smith, J. Henderson, 1928  
Vasudeva, R. Sahai and T.B. Lal, 1944  
*Chenopodium album*  
Thompson, A.D., 1956  
*Chenopodium amaranticolor*  
Hollings, M., 1956  
*Chenopodium* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Cucumis sativus*  
Matthews, R.E.F., 1949  
*Cyphomandra betacea*  
Larson, R.H., 1947  
Matthews, R.E.F., 1949  
Thompson, A.D., 1956

## VIRUS

## V. POTATO X (cont.)

- Datura metel*  
Larson, R. H., 1947
- Datura meteloides*  
Fernow, Karl Hermann, 1925
- Datura stramonium*  
Ainsworth, G. C., 1933, 1934  
Ainsworth, G. C., G. H. Berkeley and J. Caldwell, 1934  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Bawden, F. C., 1936  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1933, 1939  
Fernow, Karl Hermann, 1925  
Folsom, Donald and Reiner Bonde, 1937  
Goss, R. W., 1931  
Hutton, E. M., 1949  
Jarrett, Phyllis H., 1930  
Johnson, E. M., 1930  
Johnson, James, 1925  
Roberts, F. M., 1948  
Samson, R. W., 1930  
Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937  
Schultz, E. S. and W. P. Raleigh, 1936  
Smith, J. Henderson, 1928  
Thompson, A. D., 1956  
Vasudeva, R. Sahai and T. B. Lal, 1944
- Datura stramonium* var. *tatala*  
Dykstra, T. P., 1933  
Larson, R. H., 1947  
Matthews, R. E. F., 1949  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955
- Digitalis lanata*  
Larson, R. H., 1944
- Gomphrena globosa*  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Hoyman, Wm. G., 1951  
Roberts, Daniel A., 1952  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Wilkinson, R. E. and F. M. Blodgett, 1948  
Wilkinson, R. E. and A. Frank Ross, 1949
- Hyoscyamus niger*  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Smith, J. Henderson, 1928
- Lamium hybridum*  
Larson, R. H., 1947
- Lamium purpureum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Lycium barbarum*  
Dennis, R. W. G., 1939
- Lycopersicon esculentum*  
Ainsworth, G. C., 1933, 1934  
Ainsworth, G. C., G. H. Berkeley and J. Caldwell, 1934  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1933, 1935  
Fernow, Karl Hermann, 1925  
Folsom, Donald and Reiner Bonde, 1937  
Fulton, Robert W., 1941  
Goss, R. W., 1931  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, E. M., 1930  
Johnson, James, 1925, 1927  
Jones, Leon K. and Grover Burnett, 1935  
MacNeill, Blair H., 1955  
Matthews, R. E. F., 1949  
Samson, R. W., 1930

## VIRUS

## V. POTATO X (cont.)

- Lycopersicon esculentum*  
Smith, Kenneth M., 1929  
Valleau, W. D. and E. M. Johnson, 1930  
Vasudeva, R. Sahai and T. B. Lal, 1944
- Lycopersicon esculentum* f. *pyriforme*  
Dennis, R. W. G., 1939
- Lycopersicon racemigerum*  
Dennis, R. W. G., 1939
- Nicandra physalodes*  
Dennis, R. W. G., 1939  
Fernow, K. H., 1923, 1925  
Folsom, Donald and Reiner Bonde, 1937  
Goss, R. W., 1931  
Hoggan, Isme A., 1927  
Johnson, E. M., 1930  
Larson, R. H., 1947  
Smith, J. Henderson, 1928
- Nicotiana affinis*  
Smith, J. Henderson, 1928
- Nicotiana alata*  
Dennis, R. W. G., 1939
- Nicotiana glauca*  
Hoggan, Isme A., 1927
- Nicotiana glutinosa*  
Ainsworth, G. C., 1933, 1934  
Ainsworth, G. C., G. H. Berkeley and J. Caldwell, 1934  
Black, L. M. and W. C. Price, 1940  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Fernow, Karl Hermann, 1925  
Fulton, Robert W., 1941  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Larson, R. H., 1944, 1947  
Matthews, R. E. F., 1949  
Roberts, Daniel A., 1952  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Vasudeva, R. Sahai and T. B. Lal, 1944
- Nicotiana rustica*  
Larson, R. H., 1943, 1944, 1947  
Larson, R. H. and R. C. Ladeburg, 1949  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Vasudeva, R. Sahai and T. B. Lal, 1944
- Nicotiana sanderae*  
Smith, J. Henderson, 1928
- Nicotiana sylvestris*  
Dennis, R. W. G., 1939  
Vasudeva, R. Sahai and T. B. Lal, 1944
- Nicotiana tabacum*  
Ainsworth, G. C., 1933, 1934  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Bawden, F. C., 1936  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Black, L. M. and W. C. Price, 1940  
Blodgett, F. M., 1927  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1939  
Folsom, Donald and Reiner Bonde, 1937  
Fulton, Robert W., 1941  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Hollings, M., 1955  
Johnson, E. M., 1930  
Johnson, James, 1925, 1926, 1927  
Koch, K. L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R. H., 1943, 1944, 1947  
Larson, R. H. and R. C. Ladeburg, 1949  
Matthews, R. E. F., 1949  
Nolla, J. A. B., 1934  
Price, W. C., 1936  
Quanjer, H. M., 1933  
Roberts, Daniel A., 1952  
Roberts, F. M., 1948

## VIRUS

## V. POTATO X (cont.)

- Nicotiana tabacum*  
Smith, J. Henderson, 1928  
Smith, Kenneth M., 1930  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Valleau, W. D. and E. M. Johnson, 1930  
Vasudeva, R. Sahai and T. B. Lal, 1944  
Walters, H. J., 1952
- Petunia hybrida*  
Dykstra, T. P., 1933
- Petunia nyctaginiflora*  
Dennis, R. W. G., 1939
- Petunia violacea*  
Hoggan, Isme A., 1927  
Johnson, James, 1925, 1927  
Smith, J. Henderson, 1928
- Physalis floridana*  
Ross, A. Frank, 1950, 1953
- Physalis franchetti*  
Hoggan, Isme A., 1927
- Physalis heterophylla*  
Goss, R. W., 1931
- Physalis heterophylla* var. *nyctaginea*  
Johnson, E. M., 1930
- Physalis pubescens*  
Fernow, K. H., 1923  
Folsom, Donald and Reiner Bonde, 1937  
Hoggan, Isme A., 1927  
Johnson, E. M., 1930  
Johnson, James, 1925, 1927
- Physalis* spp.  
Dykstra, T. P., 1933
- Phytolacca decandra*  
Johnson, E. M., 1930
- Salpiglossis sinuata*  
Smith, J. Henderson, 1928
- Salpiglossis variabilis*  
Dennis, R. W. G., 1939
- Schizanthus retusus*  
Larson, R. H., 1947
- Solanum aculeatissimum*  
Fernow, Karl Hermann, 1925  
Larson, R. H., 1947
- Solanum atropurpureum* \*  
Fernow, Karl Hermann, 1925  
Hoggan, Isme A., 1927
- Solanum carolinense*  
Fernow, Karl Hermann, 1925  
Johnson, E. M., 1930
- Solanum demissum* x *Solanum tuberosum* var. *aquila* \*  
Raymer, W. B. and J. A. Milbrath, 1957
- Solanum dulcamara*  
Smith, J. Henderson, 1928  
Thompson, A. D., 1956
- Solanum laciniatum*  
Hoggan, Isme A., 1927  
Thompson, A. D., 1956
- Solanum melongena*  
Fulton, Robert W., 1941  
Johnson, James, 1925
- Solanum melongena* var. *esculentum*  
Johnson, E. M., 1930
- Solanum miniatum*  
Hoggan, Isme A., 1927
- Solanum nigrum*  
Dennis, R. W. G., 1939  
Folsom, Donald and Reiner Bonde, 1937  
Fulton, Robert W., 1941  
Johnson, James, 1925  
Smith, J. Henderson, 1928  
Thompson, A. D., 1956
- Solanum nigrum* var. *villosum*  
Dykstra, T. P., 1933  
Smith, J. Henderson, 1928
- Solanum nodiflorum*  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Smith, J. Henderson, 1928  
Thompson, A. D., 1956  
Vasudeva, R. Sahai and T. B. Lal, 1944

## VIRUS

## V. POTATO X (cont.)

- Solanum rostratum*  
Johnson, James, 1925
- Solanum tuberosum*  
Ainsworth, G. C., G. H. Berkeley and J. Caldwell, 1934  
Atanasoff, D., 1924  
Bagnall, R. H., R. H. Larson and J. C. Walker, 1956  
Bald, J. G., 1945  
Bawden, F. C., 1936  
Bawden, F. C. and F. M. L. Sheffield, 1944  
Blodgett, F. M., 1927  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1933, 1935, 1936, 1939  
Fernow, Karl Hermann, 1925  
Folsom, Donald, 1920  
Folsom, Donald and Reiner Bonde, 1937  
Folsom, Donald and E. S. Schultz, 1924  
Gilbert, Alfred H., 1923  
Goss, R. W., 1931  
Gussow, H. T., 1918  
Hoyman, Wm. G., 1951  
Jones, Leon K. and C. L. Vincent, 1937  
Jones, Leon K., C. L. Vincent and Earl F. Burk, 1940  
Koch, K. L., 1933  
Koch, Karl and James Johnson, 1935  
Krantz, F. A. and G. R. Bisby, 1921  
Ladeburg, R. C. and R. H. Larson, 1949  
Larson, R. H., 1943, 1944, 1947  
Larson, R. H. and R. C. Ladeburg, 1949  
Link, G. K. K., 1923  
Matthews, R. E. F., 1949  
McKay, M. B. and T. P. Dykstra, 1932  
McKinney, H. H., 1928  
Norris, D. O., 1953, 1954  
Quanjer, H. M., 1931  
Roberts, F. M., 1948  
Ross, A. Frank, 1950  
Schultz, E. S., 1951  
Schultz, E. S., C. F. Clark, R. Bonde, W. P. Raleigh and F. J. Stevenson, 1934  
Schultz, E. S., C. F. Clark, W. P. Raleigh, F. J. Stevenson, R. Bonde and J. H. Beaumont, 1937  
Schultz, E. S., C. F. Clark and F. J. Stevenson, 1940  
Schultz, E. S. and Donald Folsom, 1920  
Schultz, E. S., Donald Folsom, F. Merrill Hildebrandt and Lon A. Hawkins, 1919  
Schultz, E. S. and W. P. Raleigh, 1933, 1936  
Smith, J. Henderson, 1928  
Smith, Kenneth M., 1927, 1929, 1930  
Thompson, A. D., 1956  
Timian, Roland G., W. J. Hooker and C. E. Peterson, 1955  
Tompkins, C. M., 1926  
Valleau, W. D. and E. M. Johnson, 1930  
Vasudeva, R. Sahai and T. B. Lal, 1944  
Whitehead, T., 1937  
Whitehead, T. and J. F. Currie, 1931  
Whitehead, T., J. F. Currie and W. Maldwyn Davies, 1932
- Veronica agrestis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. POTATO Y Smith 1931
- Capsicum frutescens* (*Capsicum annuum*)  
Alvarez-Garcia, L. A. and Jose Adsuar, 1943  
Anderson, C. W. and M. K. Corbett, 1957  
Bald, J. G. and D. O. Norris, 1945  
Dennis, R. W. G., 1939  
Dykstra, T. P., 1939  
Easton, G. D., R. H. Larson and R. W. Hougas, 1958  
Hoggan, Isme A., 1927  
Hutton, E. M. and J. W. Peak, 1952  
Johnson, E. M., 1930  
Johnson, James, 1927  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953

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## V. POTATO Y (cont.)

- Capsicum frutescens* (*Capsicum annuum*)  
Simons, J.N., Robert A. Conover and James M. Walter, 1956
- Cassia tora*  
Anderson, C.W., 1954
- Chenopodium amaranticolor*  
Hollings, M., 1956
- Chenopodium urbicum*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Ross, A. Frank, 1948
- Cyphomandra betacea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Dahlia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura metel*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Datura stramonium*  
Bawden, F.C., 1936  
Bawden, F.C. and B. Kassanis, 1947  
Samson, R.W., 1930
- Hyoscyamus niger*  
Cockerham, George, 1943  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Larson, R.H., 1947  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Watson (Hamilton), Marion A., 1937
- Indigofera hirsuta*  
Anderson, C.W. and M.K. Corbett, 1957
- Lycium barbarum*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Lycium chinense*  
Ross, A. Frank, 1948
- Lycium halimifolium*  
Hutton, E.M. and J.W. Peak, 1952  
Larson, R.H. and J.F. Darby, 1951  
Ross, A. Frank, 1948
- Lycium rhombifolium*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Hutton, E.M. and J.W. Peak, 1952  
Larson, R.H. and J.F. Darby, 1951
- Lycopersicon esculentum*  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bawden, F.C. and B. Kassanis, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Dykstra, T.P., 1933, 1939  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Johnson, James, 1927  
Jones, Leon K. and C.L. Vincent, 1937  
Koch, K.L., 1933  
MacNeill, Blair H., 1955  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953  
Samson, R.W., 1930  
Schultz, E.S. and Donald Folsom, 1923  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Lycopersicon racemigerum*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Nicandra physalodes*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Hoggan, Isme A., 1927  
Koch, K.L., 1933  
Sakimura, K., 1953
- Nicotiana alata*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Nicotiana bigelovii* var. *multivalvis* \*  
Roque, Arturo and Jose Adsuar, 1941
- Nicotiana bigelovii* var. *quadrivalvis* \*  
Roque, Arturo and Jose Adsuar, 1941
- Nicotiana glauca*  
Hoggan, Isme A., 1927

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## V. POTATO Y (cont.)

- Nicotiana glauca*  
Johnson, James, 1927
- Nicotiana glutinosa*  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C. and B. Kassanis, 1951  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Corbett, M.K., 1955  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Hutton, E.M. and J.W. Peak, 1952  
Johnson, James, 1927  
Koch, K.L., 1933  
Peterson, Paul D. and H.H. McKinney, 1938  
Roque, Arturo and Jose Adsuar, 1941  
Ross, A. Frank, 1948, 1949, 1950, 1953  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Vasudeva, R. Sahai and T.B. Lal, 1945  
Watson, Marion A., 1956
- Nicotiana langsdorffii*  
Peterson, Paul D. and H.H. McKinney, 1938  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Nicotiana noctiflora*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Nicotiana rustica*  
Johnson, E.M., 1930  
Johnson, James, 1927  
Koch, K.L., 1933  
Oswald, John W., 1948  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Vasudeva, R. Sahai and T.B. Lal, 1945
- Nicotiana sylvestris*  
Dykstra, T.P., 1939  
Vasudeva, R. Sahai and T.B. Lal, 1945
- Nicotiana tabacum*  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C., 1936  
Bawden, F.C. and B. Kassanis, 1946, 1947, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Burnett, Grover and Leon K. Jones, 1931  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Corbett, M.K., 1955  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Doncaster, J.P. and B. Kassanis, 1946  
Dykstra, T.P., 1936, 1939  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
Hamilton, Marion A., 1932  
Hoggan, Isme A., 1927  
Johnson, E.M., 1930  
Johnson, James, 1927  
Jones, Leon K. and C.L. Vincent, 1937  
Kassanis, B., 1942  
Koch, K.L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R.H., 1947  
Larson, R.H. and J.F. Darby, 1951  
McKinney, H.H., 1943  
Nolla, J.A.B., 1934  
Oswald, John W., 1948  
Peterson, Paul D. and H.H. McKinney, 1938  
Price, W.C., 1936  
Richardson, D.E., 1958  
Roque, Arturo and Jose Adsuar, 1941  
Ross, A. Frank, 1950, 1953  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and T.B. Lal, 1945

## VIRUS

## V. POTATO Y (cont.)

- Nicotiana tabacum*  
Watson, Marion A., 1937, 1956
- Petunia hybrida*  
Dykstra, T.P., 1933, 1939  
Sakimura, K., 1953  
Vasudeva, R. Sahai and T.B. Lal, 1945
- Petunia nyctaginiflora*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Petunia violacea*  
Hoggan, Isme A., 1927  
Johnson, James, 1927
- Physalis floridana*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
Hutton, E.M. and J.W. Peak, 1952  
Richardson, D.E., 1958  
Ross, A. Frank, 1948, 1949, 1950, 1953
- Physalis franchetti*  
Hoggan, Isme A., 1927
- Physalis heterophylla*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Larson, R.H., 1947
- Physalis heterophylla* var. *nyctaginea*  
Johnson, E.M., 1930
- Physalis peruviana*  
Larson, R.H. and J.F. Darby, 1951  
Sakimura, K., 1953  
Simons, J.N., Robert A. Conover and James M. Walter, 1956
- Physalis pubescens*  
Hoggan, Isme A., 1927  
Johnson, James, 1927  
Koch, K.L., 1933
- Physalis* spp.  
Dykstra, T.P., 1933
- Physalis turbinata*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951
- Physalis virginiana*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Larson, R.H., 1947
- Salpiglossis variabilis*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Schizanthus retusus*  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Solanum acaule*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum ajuscoense*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum atropurpureum* \*  
Hoggan, Isme A., 1927
- Solanum cardiophyllum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum cardiophyllum* subsp. *ehrenbergii*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum chacoense*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (*Solanum demissum* x *Solanum gibberulosum*) x  
(*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (*Solanum demissum* x *Solanum saltense*) x (*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (*Solanum demissum* x *Solanum schickii*) x (*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- (*Solanum demissum* x *Solanum simplicifolium*) x  
(*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum dulcamara*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum gibberulosum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum gigantophyllum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum gracile* \*  
Simons, J.N., Robert A. Conover and James M. Walter, 1956
- Solanum kesselbrenneri*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum laciniatum*  
Hoggan, Isme A., 1927

## VIRUS

## V. POTATO Y (cont.)

- Solanum melongena*  
Roque, Arturo and Jose Adsuar, 1941  
Sakimura, K., 1953
- Solanum melongena* var. *esculentum*  
Johnson, E.M., 1930
- Solanum miniatum*  
Hoggan, Isme A., 1927  
Koch, K.L., 1933
- Solanum nigrum*  
Koch, K.L., 1933  
Smith, Kenneth M. and R.W.G. Dennis, 1940
- Solanum nigrum* var. *villosum*  
Dykstra, T.P., 1933
- Solanum nodiflorum*  
Cockerham, George, 1943  
Sakimura, K., 1953  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Vasudeva, R. Sahai and T.B. Lal, 1945
- Solanum polyadenium*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum rybinii*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum saltense*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum simplicifolium* x *Solanum rybinii*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum simplicifolium* x *Solanum toralapanum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum stoloniferum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958
- Solanum tuberosum*  
Atanasoff, D., 1924, 1925  
Bald, J.G., 1945  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C., 1936  
Bawden, F.C. and B. Kassanis, 1946, 1947, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Broadbent, L., 1946  
Broadbent, L., R.P. Chaudhuri and L. Kapica, 1950  
Broadbent, L. and T.W. Tinsley, 1951  
Cockerham, George, 1943  
Corbett, M.K., 1955  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1933, 1936, 1939  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
Hoggan, Isme A., 1927  
Hutton, E.M. and J.W. Peak, 1952  
Johnson, James, 1927  
Jones, Leon K. and C.L. Vincent, 1937  
Jones, Leon K., C.L. Vincent and Earl F. Buck, 1940  
Kassanis, B., 1942  
Koch, K.L., 1933  
Koch, Karl and James Johnson, 1935  
Larson, R.H., 1947  
Larson, R.H. and J.F. Darby, 1951  
Oswald, John W., 1948  
Quanjer, H.M., 1931  
Richardson, D.E., 1958  
Ross, A. Frank, 1948, 1950  
Samson, R.W., 1930  
Schultz, E.S., C.F. Clark, R. Bonde, W.P. Raleigh and F.J. Stevenson, 1934  
Schultz, E.S., C.F. Clark, W.P. Raleigh, F.J. Stevenson, R. Bonde and J.H. Beaumont, 1937  
Schultz, E.S. and D. Folsom, 1922, 1923, 1925  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Valleau, W.D. and E.M. Johnson, 1930  
Vasudeva, R. Sahai and T.B. Lal, 1945  
Vincent, C.L. and L.K. Jones, 1936  
Watson, Marion A., 1956  
Whitehead, T., 1937
- Vigna chinensis* \*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951
- Vigna sinensis*  
Dykstra, T.P., 1939  
Ross, A. Frank, 1948
- Zinnia elegans*  
Simons, J.N., Robert A. Conover and James M. Walter, 1956

## VIRUS

- V. POTATO YELLOW DWARF Barrus and Chupp 1922  
*Barbarea vulgaris*  
 Hansing, E. D., 1942  
*Callistephus chinensis*  
 Black, L. M., 1938  
*Capsella bursa-pastoris*  
 Hansing, E. D., 1942  
*Datura stramonium*  
 Hougas, R. W., 1951  
*Hyoscyamus niger*  
 Black, L. M., 1937, 1938  
*Kalanchoe diargremontiana*  
 Hansing, E. D., 1942  
*Lycopersicon esculentum*  
 Black, L. M., 1937  
 Hougas, R. W., 1951  
*Medicago lupulina*  
 Hansing, E. D., 1942  
*Nicotiana glauca*  
 Black, L. M., 1938  
*Nicotiana glutinosa*  
 Black, L. M., 1938  
*Nicotiana langsdorffii*  
 Black, L. M., 1938  
*Nicotiana paniculata*  
 Black, L. M., 1938  
*Nicotiana rustica*  
 Black, L. M., 1938, 1940, 1943  
 Hougas, R. W., 1951  
 Price, W. C. and L. M. Black, 1941  
 Younkin, S. G., 1943  
*Nicotiana rustica* var. *jamaicensis* \*  
 Black, L. M., 1938  
*Nicotiana rustica* var. *pumila* \*  
 Black, L. M., 1938  
*Nicotiana sanderae*  
 Black, L. M., 1938  
*Nicotiana sylvestris*  
 Black, L. M., 1938  
*Nicotiana tabacum*  
 Black, L. M., 1938  
*Nicotiana undulata*  
 Black, L. M., 1938  
*Physalis heterophylla*  
 Black, L. M., 1937  
 Larson, R. H., 1947  
*Physalis pubescens*  
 Black, L. M., 1938  
*Physalis virginiana*  
 Larson, R. H., 1947  
*Solanum acaule* var. *subexinterruptum*  
 Black, L. M., 1937  
*Solanum ajuscoense*  
 Black, L. M., 1937  
*Solanum antipoviczii*  
 Black, L. M., 1937  
*Solanum cardiophyllum* f. *coyoacanum* \*  
 Black, L. M., 1937  
*Solanum melongena*  
 Black, L. M., 1938  
*Solanum neo-antipoviczii*  
 Black, L. M., 1937  
*Solanum tuberosum*  
 Black, L. M., 1937, 1938, 1940, 1943  
 Hansing, E. D., 1942, 1943  
 Hougas, R. W., 1951  
 Koch, K., 1934  
 Larson, R. H., 1945, 1947  
 Muncie, J. H., 1935  
 Walker, J. C. and R. H. Larson, 1939  
*Solanum verrucosum*  
 Black, L. M., 1937  
*Trifolium agrarium*  
 Black, L. M., 1937  
*Trifolium hybridum*  
 Black, L. M., 1937  
*Trifolium incarnatum*  
 Black, L. M., 1938, 1943, 1953  
 Hougas, R. W., 1951  
*Trifolium pratense*  
 Black, L. M., 1936, 1937  
 Hansing, E. D., 1942

## VIRUS

- V. POTATO YELLOW DWARF (cont.)  
*Trifolium repens*  
 Black, L. M., 1937  
 Hansing, E. D., 1942  
*Trifolium* spp.  
 Black, L. M., 1938  
*Vicia faba*  
 Black, L. M., 1938  
 Hougas, R. W., 1951
- V. POTATO YELLOW SPOT Bonde and Merriam 1954  
*Solanum tuberosum*  
 Bonde, Reiner and Donald Merriam, 1954
- V. POTATO YELLOW VEIN K.M. Smith 1957  
*Solanum tuberosum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. PRIMULA MOSAIC  
*Primula malacoides*  
 Tompkins, C.M. and John T. Middleton, 1941  
*Primula obconica*  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Tompkins, C.M. and John T. Middleton, 1941  
*Primula sinensis*  
 Tompkins, C.M. and John T. Middleton, 1941
- V. PRUNE DIAMOND CANKER Smith 1941  
*Cucumis sativus*  
 Yarwood, C.E. and H.E. Thomas, 1954  
*Prunus domestica*  
 Smith, Ralph E., 1941  
 Yarwood, C.E. and H.E. Thomas, 1954
- V. PRUNE DWARF Thomas and Hildebrand 1936  
*Cucumis sativus*  
 Willison, R.S., 1951  
*Cucurbita maxima*  
 Milbrath, J.A., 1956  
 Willison, R.S., 1951  
*Prunus armeniaca*  
 Moore, J. Duain and H.R. Cameron, 1956  
 Willison, R.S., 1944  
*Prunus avium*  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Willison, R.S., 1944  
*Prunus cerasifera*  
 Willison, R.S., 1944  
*Prunus cerasus*  
 Fink, Harry C., 1955  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Milbrath, J.A., 1957  
 Moore, J. Duain and H.R. Cameron, 1956  
 Willison, R.S., 1944  
*Prunus domestica*  
 Cochran, L.C., 1956  
 Gilmer, R.M., K.D. Brase and K.G. Parker, 1957  
 Hildebrand, E.M., 1942  
 Moore, J. Duain and H.R. Cameron, 1956  
 Richards, B.L. and L.C. Cochran, 1956  
 Thomas, H.E. and E.M. Hildebrand, 1936  
 Willison, R.S., 1944  
*Prunus insititia*  
 Hildebrand, E.M., 1942  
*Prunus mahaleb*  
 Willison, R.S., 1944  
*Prunus persica*  
 Hildebrand, E.M., 1942  
 Richards, B.L. and L.C. Cochran, 1956  
 Willison, R.S., 1944  
*Prunus salicina*  
 Hildebrand, E.M., 1942  
 Willison, R.S., 1944  
*Prunus tomentosa*  
 Fink, Harry C., 1955
- V. PRUNUS \*  
*Zinnia elegans*  
 Varney, E.H. and J. Duain Moore, 1954
- V. PRUNUS A \*  
*Antirrhinum majus*  
 Fulton, Robert W., 1957



## VIRUS

## V. PRUNUS A \* (cont.)

- Apocynum androsaemifolium*  
 Fulton, Robert W., 1957  
*Asclepias syriaca*  
 Fulton, Robert W., 1957  
*Astragalus rubyi*  
 Fulton, Robert W., 1957  
*Carthamus tinctorius*  
 Fulton, Robert W., 1957  
*Cassia tora*  
 Fulton, Robert W., 1957  
*Centaurea imperialis*  
 Fulton, Robert W., 1957  
*Citrullus colocynthis*  
 Fulton, Robert W., 1957  
*Citrullus vulgaris*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*Citrullus vulgaris* var. *citroides*  
 Fulton, Robert W., 1957  
*Crotalaria intermedia*  
 Fulton, Robert W., 1957  
*Cucumis anguria*  
 Fulton, Robert W., 1957  
*Cucumis dipsaceus*  
 Fulton, Robert W., 1957  
*Cucumis melo*  
 Fulton, Robert W., 1957  
*Cucumis prophetarum*  
 Fulton, Robert W., 1957  
*Cucumis sativus*  
 Fulton, Robert W., 1957  
*Cucurbita ficifolia*  
 Fulton, Robert W., 1957  
*Cucurbita maxima*  
 Fulton, Robert W., 1957  
*Cucurbita moschata*  
 Fulton, Robert W., 1957  
*Cucurbita okeechobeensis*  
 Fulton, Robert W., 1957  
*Cucurbita pepo*  
 Fulton, Robert W., 1957  
*Cyamopsis tetragonoloba*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*Cyclanthera pedata*  
 Fulton, Robert W., 1957  
*Cynoglossum amabile*  
 Fulton, Robert W., 1957  
*Datura stramonium*  
 Vasudeva, R. Sahai and C. S. Ramamoorthy, 1946  
*Datura stramonium* var. *tatula*  
 MacLachlan, D. S., R. H. Larson and J. C. Walker,  
 1953  
*Echinocystis lobata*  
 Fulton, Robert W., 1957  
*Gomphrena globosa*  
 Fulton, Robert W., 1957  
*Gossypium hirsutum*  
 Fulton, Robert W., 1957  
*Hedysarum coronarium*  
 Fulton, Robert W., 1957  
*Ipomoea purpurea*  
 Fulton, Robert W., 1957  
*Lactuca sativa*  
 Fulton, Robert W., 1957  
*Melilotus alba*  
 Fulton, Robert W., 1957  
*Melothria pendula*  
 Fulton, Robert W., 1957  
*Momordica balsamina*  
 Fulton, Robert W., 1957  
*Nicotiana benthamiana*  
 Fulton, Robert W., 1957  
*Nicotiana tabacum*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
 Varney, E. H. and J. Duain Moore, 1954  
*Petunia hybrida*  
 Fulton, Robert W., 1957  
*Pisum sativum*  
 Fulton, Robert W., 1957

## VIRUS

## V. PRUNUS A \* (cont.)

- Prunus americana* x *Prunus salicina*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
*Prunus cerasus*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*Prunus mahaleb*  
 Fulton, Robert W., 1957  
*Prunus pennsylvanica*  
 Fulton, Robert W., 1957  
*Prunus serotina*  
 Fulton, Robert W., 1957  
*Prunus virginiana*  
 Fulton, Robert W., 1957  
*Sesbania bispinosa*  
 Fulton, Robert W., 1957  
*Sesbania cannabina*  
 Fulton, Robert W., 1957  
*Sesbania cinerascens*  
 Fulton, Robert W., 1957  
*Sesbania exaltata*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*Sesbania paulensis*  
 Fulton, Robert W., 1957  
*Sesbania sesban*  
 Fulton, Robert W., 1957  
*Sesbania speciosa*  
 Fulton, Robert W., 1957  
*Sicana odorifera*  
 Fulton, Robert W., 1957  
*Trichosanthes anguina*  
 Fulton, Robert W., 1957  
*Trifolium repens*  
 Fulton, Robert W., 1957  
*Vinca rosea*  
 Fulton, Robert W., 1957

## V. PRUNUS B \*

- Antirrhinum majus*  
 Fulton, Robert W., 1957  
*Apocynum androsaemifolium*  
 Fulton, Robert W., 1957  
*Astragalus rubyi*  
 Fulton, Robert W., 1957  
*Benincasa hispida*  
 Fulton, Robert W., 1957  
*Boltonia latisquama*  
 Fulton, Robert W., 1957  
*Browallia elata*  
 Fulton, Robert W., 1957  
*Callistephus chinensis*  
 Fulton, Robert W., 1957  
*Carthamus tinctorius*  
 Fulton, Robert W., 1957  
*Centaurea imperialis*  
 Fulton, Robert W., 1957  
*Citrullus colocynthis*  
 Fulton, Robert W., 1957  
*Citrullus vulgaris*  
 Ehlers, Clifford G. and J. Duain Moore, 1957  
 Fulton, Robert W., 1957  
*Citrullus vulgaris* var. *citroides*  
 Fulton, Robert W., 1957  
*Coleus blumei*  
 Fulton, Robert W., 1957  
*Crotalaria capensis*  
 Fulton, Robert W., 1957  
*Crotalaria spectabilis*  
 Fulton, Robert W., 1957  
*Cucumis anguria*  
 Fulton, Robert W., 1957  
*Cucumis dipsaceus*  
 Fulton, Robert W., 1957  
*Cucumis melo*  
 Fulton, Robert W., 1957  
*Cucumis sativus*  
 Fulton, Robert W., 1957  
*Cucurbita ficifolia*  
 Fulton, Robert W., 1957  
*Cucurbita maxima*  
 Fulton, Robert W., 1957

## VIRUS

## V. PRUNUS B \* (cont.)

- Cucurbita moschata*  
Fulton, Robert W., 1957
- Cucurbita okeechobeensis*  
Fulton, Robert W., 1957
- Cucurbita pepo*  
Fulton, Robert W., 1957
- Cyamopsis tetragonoloba*  
Ehlers, Clifford G. and J. Duain Moore, 1957
- Cyclanthera pedata*  
Fulton, Robert W., 1957
- Cynoglossum amabile*  
Fulton, Robert W., 1957
- Datura stramonium*  
Fulton, Robert W., 1957
- Echinocystis lobata*  
Fulton, Robert W., 1957
- Gleditsia triacanthos*  
Fulton, Robert W., 1957
- Gossypium hirsutum*  
Fulton, Robert W., 1957
- Ipomoea purpurea*  
Fulton, Robert W., 1957
- Lactuca sativa*  
Fulton, Robert W., 1957
- Lagenaria siceraria* (*Lagenaria leucantha*)  
Fulton, Robert W., 1957
- Melilotus alba*  
Fulton, Robert W., 1957
- Melilotus indica*  
Fulton, Robert W., 1957
- Melilotus officinalis*  
Fulton, Robert W., 1957
- Melothria guadalupensis*  
Fulton, Robert W., 1957
- Melothria pendula*  
Fulton, Robert W., 1957
- Momordica balsamina*  
Fulton, Robert W., 1957
- Momordica charantia*  
Fulton, Robert W., 1957
- Nepeta cataria*  
Fulton, Robert W., 1957
- Nicotiana benthamiana*  
Fulton, Robert W., 1957
- Nicotiana* spp.  
Fulton, Robert W., 1957
- Nicotiana tabacum*  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1956, 1957
- Nierembergia hippomanica*  
Fulton, Robert W., 1957
- Petunia hybrida*  
Fulton, Robert W., 1957
- Phlox drummondii*  
Fulton, Robert W., 1957
- Physalis aequata*  
Fulton, Robert W., 1957
- Plantago virginica*  
Fulton, Robert W., 1957
- Prunus americana* x *Prunus salicina*  
Ehlers, Clifford G. and J. Duain Moore, 1957
- Prunus cerasus*  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
- Prunus mahaleb*  
Fulton, Robert W., 1957
- Prunus pensylvanica*  
Fulton, Robert W., 1957
- Prunus serotina*  
Fulton, Robert W., 1957
- Prunus virginiana*  
Fulton, Robert W., 1957
- Salpiglossis sinuata*  
Fulton, Robert W., 1957
- Sesbania bispinosa*  
Fulton, Robert W., 1957
- Sesbania cannabina*  
Fulton, Robert W., 1957
- Sesbania cinerascens*  
Fulton, Robert W., 1957
- Sesbania exaltata*  
Ehlers, Clifford G. and J. Duain Moore, 1957

## VIRUS

## V. PRUNUS B \* (cont.)

- Sesbania exaltata*  
Fulton, Robert W., 1957
- Sesbania paulensis*  
Fulton, Robert W., 1957
- Sesbania sesban*  
Fulton, Robert W., 1957
- Sesbania speciosa*  
Fulton, Robert W., 1957
- Sicana odorifera*  
Fulton, Robert W., 1957
- Solidago* spp.  
Fulton, Robert W., 1957
- Tithonia speciosa*  
Fulton, Robert W., 1957
- Thunbergia alata*  
Fulton, Robert W., 1957
- Trichosanthes anguina*  
Fulton, Robert W., 1957
- Trifolium repens*  
Fulton, Robert W., 1957
- Verbascum thapsus*  
Fulton, Robert W., 1957
- Vinca rosea*  
Fulton, Robert W., 1957
- Zinnia elegans*  
Fulton, Robert W., 1957

## V. PRUNUS E \* (cont.)

- Antirrhinum majus*  
Fulton, Robert W., 1957
- Apocynum androsaemifolium*  
Fulton, Robert W., 1957
- Benincasa hispida*  
Fulton, Robert W., 1957
- Carthamus tinctorius*  
Fulton, Robert W., 1957
- Cassia marilandica*  
Fulton, Robert W., 1957
- Cassia tora*  
Fulton, Robert W., 1957
- Centaurea imperialis*  
Fulton, Robert W., 1957
- Citrullus vulgaris*  
Ehlers, Clifford G. and J. Duain Moore, 1957
- Coleus blumei*  
Fulton, Robert W., 1957
- Crotalaria intermedia*  
Fulton, Robert W., 1957
- Crotalaria mucronata*  
Fulton, Robert W., 1957
- Cucumis anguria*  
Fulton, Robert W., 1957
- Cucumis dipsaceus*  
Fulton, Robert W., 1957
- Cucumis melo*  
Fulton, Robert W., 1957
- Cucumis prophetarum*  
Fulton, Robert W., 1957
- Cucumis sativus*  
Fulton, Robert W., 1957
- Cucurbita ficifolia*  
Fulton, Robert W., 1957
- Cucurbita maxima*  
Fulton, Robert W., 1957
- Cucurbita moschata*  
Fulton, Robert W., 1957
- Cucurbita okeechobeensis*  
Fulton, Robert W., 1957
- Cucurbita pepo*  
Fulton, Robert W., 1957
- Cyamopsis tetragonoloba*  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
- Cyclanthera pedata*  
Fulton, Robert W., 1957
- Echinocystis lobata*  
Fulton, Robert W., 1957
- Gossypium hirsutum*  
Fulton, Robert W., 1957
- Ipomoea purpurea*  
Fulton, Robert W., 1957

## VIRUS

- V. PRUNUS E \* (cont.)
- Melothria guadalupensis  
Fulton, Robert W., 1957
  - Melothria pendula  
Fulton, Robert W., 1957
  - Momordica balsamina  
Fulton, Robert W., 1957
  - Nicotiana benthamiana  
Fulton, Robert W., 1957
  - Nicotiana tabacum  
Ehlers, Clifford G. and J. Duain Moore, 1957
  - Petunia hybrida  
Fulton, Robert W., 1957
  - Prunus americana x Prunus salicina  
Ehlers, Clifford G. and J. Duain Moore, 1957
  - Prunus cerasus  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
  - Prunus mahaleb  
Fulton, Robert W., 1957
  - Prunus pennsylvanica  
Fulton, Robert W., 1957
  - Prunus serotina  
Fulton, Robert W., 1957
  - Prunus virginiana  
Fulton, Robert W., 1957
  - Sesbania bispinosa  
Fulton, Robert W., 1957
  - Sesbania cannabina  
Fulton, Robert W., 1957
  - Sesbania cinerascens  
Fulton, Robert W., 1957
  - Sesbania exaltata  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
  - Sesbania paulensis  
Fulton, Robert W., 1957
  - Sesbania speciosa  
Fulton, Robert W., 1957
  - Sicana odorifera  
Fulton, Robert W., 1957
  - Trichosanthes anguina  
Fulton, Robert W., 1957
- V. PRUNUS G \*
- Antirrhinum majus  
Fulton, Robert W., 1957
  - Apocynum androsaemifolium  
Fulton, Robert W., 1957
  - Asclepias syriaca  
Fulton, Robert W., 1957
  - Carthamus tinctorius  
Fulton, Robert W., 1957
  - Cassia tora  
Fulton, Robert W., 1957
  - Centaurea imperialis  
Fulton, Robert W., 1957
  - Crotalaria intermedia  
Fulton, Robert W., 1957
  - Crotalaria mucronata  
Fulton, Robert W., 1957
  - Cucumis anguria  
Fulton, Robert W., 1957
  - Cucumis dipsaceus  
Fulton, Robert W., 1957
  - Cucumis melo  
Fulton, Robert W., 1957
  - Cucumis prophetarum  
Fulton, Robert W., 1957
  - Cucumis sativus  
Fulton, Robert W., 1957
  - Cucurbita ficifolia  
Fulton, Robert W., 1957
  - Cucurbita maxima  
Fulton, Robert W., 1957
  - Cucurbita moschata  
Fulton, Robert W., 1957
  - Cucurbita okeechobeensis  
Fulton, Robert W., 1957
  - Cyamopsis tetragonoloba  
Fulton, Robert W., 1957
  - Cyclanthera pedata  
Fulton, Robert W., 1957

## VIRUS

- V. PRUNUS G \* (cont.)
- Echinocystis lobata  
Fulton, Robert W., 1957
  - Gomphrena globosa  
Fulton, Robert W., 1957
  - Hedysarum coronarium  
Fulton, Robert W., 1957
  - Indigofera hirsuta  
Fulton, Robert W., 1957
  - Ipomoea purpurea  
Fulton, Robert W., 1957
  - Melilotus alba  
Fulton, Robert W., 1957
  - Melothria guadalupensis  
Fulton, Robert W., 1957
  - Momordica balsamina  
Fulton, Robert W., 1957
  - Nicotiana tabacum  
Fulton, Robert W., 1957
  - Petunia hybrida  
Fulton, Robert W., 1957
  - Pisum sativum  
Fulton, Robert W., 1957
  - Potentilla palustris  
Fulton, Robert W., 1957
  - Prunus americana x Prunus salicina  
Ehlers, Clifford G. and J. Duain Moore, 1957
  - Prunus cerasus  
Ehlers, Clifford G. and J. Duain Moore, 1957  
Fulton, Robert W., 1957
  - Prunus mahaleb  
Fulton, Robert W., 1957
  - Prunus pennsylvanica  
Fulton, Robert W., 1957
  - Prunus serotina  
Fulton, Robert W., 1957
  - Prunus virginiana  
Fulton, Robert W., 1957
  - Rheum rhaponticum  
Fulton, Robert W., 1957
  - Sesbania bispinosa  
Fulton, Robert W., 1957
  - Sesbania cannabina  
Fulton, Robert W., 1957
  - Sesbania cinerascens  
Fulton, Robert W., 1957
  - Sesbania exaltata  
Fulton, Robert W., 1957
  - Sesbania paulensis  
Fulton, Robert W., 1957
  - Sesbania speciosa  
Fulton, Robert W., 1957
  - Sicana odorifera  
Fulton, Robert W., 1957
  - Trichosanthes anguina  
Fulton, Robert W., 1957
  - Verbascum thapsus  
Fulton, Robert W., 1957
  - Vinca rosea  
Fulton, Robert W., 1957
  - Zinnia elegans  
Fulton, Robert W., 1957
- V. PRIVET MOSAIC \*
- Chenopodium amaranticolor  
Hollings, M., 1956
- V. PSORALEA BITUMINOSA MOSAIC \*
- Psoralea bituminosa  
McKinney, H.H., 1928
- V. QUINCE SOOTY RING SPOT \*
- Cydonia oblonga  
Posnette, A.F., 1957
  - Pyrus communis  
Posnette, A.F., 1957
- V. QUINCE STUNT \*
- Cydonia oblonga  
Posnette, A.F., 1957
  - Pyrus communis  
Posnette, A.F., 1957

## VIRUS

- V. RADISH MOSAIC Tompkins 1939  
*Brassica adpressa*  
 Tompkins, C.M., 1939  
*Brassica campestris*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
*Brassica hirta* (*Brassica alba*)  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939  
*Brassica juncea* (*Brassica japonica*)  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Takahashi, William N., 1952  
 Tompkins, C.M., 1939  
*Brassica kabera* (*Brassica arvensis*)  
 Tompkins, C.M., 1939  
*Brassica nigra*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939  
*Brassica oleracea*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
*Brassica oleracea* var. *acephala*  
 Tompkins, C.M., 1939  
*Brassica oleracea* var. *botrytis*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939  
*Brassica oleracea* var. *capitata*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Tompkins, C.M., 1939  
*Brassica oleracea* var. *caulorapa*  
 Tompkins, C.M., 1939  
*Brassica oleracea* var. *gemmifera*  
 Tompkins, C.M., 1939  
*Brassica pekinensis*  
 Tompkins, C.M., 1939  
*Brassica rapa*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Takahashi, William N., 1952  
 Tompkins, C.M., 1939  
*Capsella bursa-pastoris*  
 Tompkins, C.M., 1939  
*Chenopodium album*  
 Tompkins, C.M., 1939  
*Chenopodium murale*  
 Tompkins, C.M., 1939  
*Delphinium ajacis*  
 Tompkins, C.M., 1939  
*Malcomia maritima*  
 Tompkins, C.M., 1939  
*Matthiola bicornis*  
 Tompkins, C.M., 1939  
*Matthiola incana*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
 Tompkins, C.M., 1939  
*Nicotiana langsdorffii*  
 Tompkins, C.M., 1939  
*Nicotiana rustica* var. *humulis* \*  
 Tompkins, C.M., 1939  
*Nicotiana tabacum*  
 Tompkins, C.M., 1939  
*Raphanus sativus*  
 Raychaudhuri, S.P. and P.S. Pathanian, 1955  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Takahashi, William N., 1952  
 Tompkins, C.M., 1939  
*Raphanus sativus* var. *longipinnatus* \*  
 Tompkins, C.M., 1939  
*Spinacia oleracea*  
 Tompkins, C.M., 1939
- V. RANUNCULUS MOSAIC K.M. Smith 1957  
*Cucumis sativus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Gomphrena globosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Phaseolus vulgaris*  
 Raabe, Robert D. and A. Herbert Gold, 1957  
*Ranunculus asiaticus*  
 Raabe, Robert D. and A. Herbert Gold, 1957  
*Tetragonia expansa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## VIRUS

- V. RAPE SAVOY F.O. Holmes 1939  
*Brassica chinensis*  
 Ling, Lee and Juhwa Y. Yang, 1940  
*Brassica juncea* (*Brassica japonica*)  
 Ling, Lee and Juhwa Y. Yang, 1940  
*Brassica napus*  
 Ling, Lee and Juhwa Y. Yang, 1940  
*Brassica pekinensis*  
 Ling, Lee and Juhwa Y. Yang, 1940  
*Brassica rapa*  
 Ling, Lee and Juhwa Y. Yang, 1940  
*Raphanus sativus* var. *longipinnatus* \*  
 Ling, Lee and Juhwa Y. Yang, 1940
- V. RASPBERRY ALPHA LEAF CURL  
*Rubus allegheniensis*  
 Bennett, C.W., 1927  
*Rubus idaeus* var. *strigosus*  
 Bennett, C.W., 1927, 1930  
 Rankin, W.H., J.F. Hockey and J.B. McCurry, 1922  
*Rubus macropetalus*  
 Bennett, C.W., 1927  
*Rubus occidentalis*  
 Rankin, W.H. and J.F. Hockey, 1922  
*Rubus phoenicolasius*  
 Rankin, W.H. and J.F. Hockey, 1922  
*Rubus strigosus*  
 Bennett, C.W., 1927  
 Rankin, W.H. and J.F. Hockey, 1922
- V. RASPBERRY BETA LEAF CURL  
*Rubus idaeus* var. *strigosus*  
 Bennett, C.W., 1930  
*Rubus neglectus*  
 Bennett, C.W., 1927  
*Rubus occidentalis*  
 Bennett, C.W., 1927, 1930  
 Rankin, W. Howard, 1931
- V. RASPBERRY CURLY DWARF Prentice and Harris  
*Rubus idaeus* 1950  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. RASPBERRY LEAF SPOT Cadman 1952  
*Rubus idaeus*  
 Cadman, C.H., 1952
- V. RASPBERRY (MILD) YELLOWS Cadman 1952  
*Rubus idaeus*  
 Cadman, C.H., 1952
- V. RASPBERRY (MODERATE) VEIN CHLOROSIS Cadman  
*Rubus idaeus* 1952  
 Cadman, C.H., 1952
- V. RASPBERRY MOSAIC 2 \*  
*Rubus idaeus*  
 Cadman, C.H., 1952  
 Harris, R.V., 1940  
 Prentice, I.W. and R.V. Harris, 1950
- V. RASPBERRY NECROTIC FERN LEAF MOSAIC  
*Rubus idaeus* Chamberlain 1941  
 Chamberlain, G.C., 1941  
*Rubus occidentalis*  
 Chamberlain, G.C., 1941
- V. RASPBERRY SCOTTISH LEAF CURL Harris et al.  
*Beta vulgaris* 1953  
 Harrison, B.D., 1958  
*Chenopodium amaranticolor*  
 Harrison, B.D., 1958  
 Lister, R.M., 1958  
*Cirsium arvense*  
 Harrison, B.D., 1958  
*Cucumis sativus*  
 Harrison, B.D., 1958  
 Lister, R.M., 1958  
*Datura stramonium*  
 Cadman, C.H., 1956  
 Harrison, B.D., 1958  
 Lister, R.M., 1958

- VIRUS
- V. RASPBERRY SCOTTISH LEAF CURL (cont.)
- Fragaria vesca*  
Lister, R. M., 1958  
Vaughan, Edward K. and Harold W. Wiedman, 1955
- Hyoscyamus niger*  
Cadman, C. H., 1956
- Matricaria matricarioides*  
Harrison, B. D., 1958
- Myosotis arvensis*  
Harrison, B. D., 1958
- Nicotiana glutinosa*  
Cadman, C. H., 1956
- Nicotiana rustica*  
Cadman, C. H., 1956  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Nicotiana tabacum*  
Cadman, C. H., 1956  
Harrison, B. D., 1957, 1958  
Lister, R. M., 1958
- Petunia hybrida*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Petunia* spp.  
Cadman, C. H., 1956
- Phaseolus vulgaris*  
Cadman, C. H., 1956  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Polygonum convolvulus*  
Harrison, B. D., 1958
- Rubus idaeus*  
Cadman, C. H., 1956  
Cadman, C. H. and R. V. Harris, 1952  
Harrison, B. D., 1958
- Spergula arvensis*  
Harrison, B. D., 1957, 1958
- Stellaria media*  
Harrison, B. D., 1958
- Veronica persica*  
Harrison, B. D., 1958
- V. RASPBERRY STREAK Zeller 1923
- Cuscuta subinclusa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rubus occidentalis*  
Bennett, C. W., 1927  
Horn, Norman L., 1948  
Horn, N. L. and M. W. Woods, 1949  
Rankin, W. Howard, 1931
- V. RASPBERRY VEINBANDING Cadman 1952
- Rubus idaeus*  
Cadman, C. H., 1952  
Harris, R. V., 1940  
Prentice, I. W. and R. V. Harris, 1950
- Rubus idaeus* var. *strigosus*  
Cadman, C. H., 1952
- Rubus occidentalis*  
Cadman, C. H., 1952
- Rubus occidentalis* x *Rubus idaeus*  
Cadman, C. H., 1952
- Rubus saxatilis*  
Cadman, C. H., 1952
- V. RASPBERRY YELLOW BLOTCH CURL Chamberlain 1938
- Fragaria vesca* 1938  
Vaughan, Edward K. and Harold W. Wiedman, 1955
- Rubus idaeus*  
Cadman, C. H. and R. V. Harris, 1952  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rubus idaeus* var. *strigosus*  
Zeller, S. M. and A. J. Braun, 1943
- V. RASPBERRY YELLOW DWARF
- Anagallis arvensis*  
Harrison, B. D., 1958
- Beta vulgaris*  
Harrison, B. D., 1958
- Brassica pekinensis*  
Harrison, B. D., 1958
- Brassica rapa*  
Harrison, B. D., 1958
- VIRUS
- V. RASPBERRY YELLOW DWARF (cont.)
- Cerastium* spp.  
Harrison, B. D., 1958
- Chenopodium amaranticolor*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Cucumis sativus*  
Harrison, B. D., 1958
- Datura stramonium*  
Harrison, B. D., 1958
- Fragaria vesca*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Gomphrena globosa*  
Harrison, B. D., 1958
- Kickxia spuria*  
Harrison, B. D., 1958
- Lycopersicon esculentum*  
Harrison, B. D., 1958
- Nicotiana glutinosa*  
Harrison, B. D., 1958
- Nicotiana rustica*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Nicotiana tabacum*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Petunia hybrida*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Phaseolus vulgaris*  
Harrison, B. D., 1958  
Lister, R. M., 1958
- Plantago* spp.  
Harrison, B. D., 1958
- Rubus idaeus*  
Harrison, B. D., 1958
- Taraxacum officinale*  
Harrison, B. D., 1958
- Trifolium* spp.  
Harrison, B. D., 1958
- V. RASPBERRY YELLOW MOSAIC Bennett 1927
- Rubus idaeus* var. *strigosus*  
Bennett, C. W., 1932
- Rubus occidentalis*  
Bennett, C. W., 1927, 1932  
Rankin, W. Howard, 1931
- V. RED CLOVER MOSAIC \*
- Cicer arietinum*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Lathyrus odoratus*  
Doolittle, S. P. and F. R. Jones, 1925  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Lens esculenta*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Medicago arabica*  
Elliott, J. A., 1921
- Medicago lupulina*  
Dickson, B. T., 1922
- Melilotus alba*  
Elliott, J. A., 1921
- Phaseolus aureus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus vulgaris*  
Harrison, Arthur L., 1935
- Pisum sativum*  
Doolittle, S. P. and F. R. Jones, 1925  
Zaunmeyer, W. J. and B. L. Wade, 1933, 1935, 1936
- Trifolium hybridum*  
Dickson, B. T., 1922
- Trifolium incarnatum*  
Dickson, B. T., 1922
- Trifolium pratense*  
Dickson, B. T., 1922  
Dickson, B. T. and G. P. McRostie, 1922  
Elliott, J. A., 1921  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Trifolium repens*  
Dickson, B. T., 1922
- Vicia americana*  
Zaunmeyer, W. J. and B. L. Wade, 1935

## VIRUS

## V. RED CLOVER MOSAIC \* (cont.)

*Vicia faba*

Elliott, J. A., 1921

Zaunmeyer, W. J. and B. L. Wade, 1935, 1936

## V. RED CLOVER VEIN MOSAIC Osborn 1937

*Glycine max*

Hagedorn, D. J., 1952

*Lathyrus hirsutus*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Lathyrus odoratus*

Hagedorn, D. J. and E. W. Hanson, 1951

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Osborn, H. T., 1937

Roberts, D. A., 1957

*Lupinus angustifolius*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Medicago lupulina*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

*Melilotus alba*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

Hagedorn, D. J. and E. W. Hanson, 1951

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Hanson, E. W. and D. J. Hagedorn, 1954, 1956

Osborn, H. T., 1937

*Melilotus indica*

Hagedorn, D. J. and E. W. Hanson, 1953

*Melilotus officinalis*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

Hagedorn, D. J. and E. W. Hanson, 1957

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Phaseolus vulgaris*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

*Pisum sativum*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

Hagedorn, D. J., 1952, 1954

Hagedorn, D. J. and E. W. Hanson, 1951

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Hanson, E. W. and D. J. Hagedorn, 1954

Osborn, H. T., 1937

Roberts, D. A., 1957

*Pisum sativum* var. *arvense*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Osborn, H. T., 1937

*Trifolium hybridum*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

Hagedorn, D. J. and E. W. Hanson, 1951, 1953, 1957

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Hanson, E. W. and D. J. Hagedorn, 1954, 1956

Osborn, H. T., 1937

*Trifolium incarnatum*

Hagedorn, D. J., 1952

Hagedorn, D. J. and E. W. Hanson, 1951, 1953, 1957

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Hanson, E. W. and D. J. Hagedorn, 1954, 1956

Osborn, H. T., 1937

*Trifolium pratense*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

Hagedorn, D. J., 1952

Hagedorn, D. J. and E. W. Hanson, 1951, 1953, 1957

Hagedorn, D. J. and J. C. Walker, 1949, 1954

Hanson, E. W. and D. J. Hagedorn, 1952, 1954, 1956

Osborn, H. T., 1937, 1938

*Trifolium repens*

Hagedorn, D. J. and E. W. Hanson, 1951

Hagedorn, D. J. and J. C. Walker, 1954

Osborn, H. T., 1937

Roberts, D. A., 1957

*Trifolium repens* var. *latum* \*

Graves, Clinton H., Jr. and D. J. Hagedorn, 1956

*Trigonella feonum-graecum*

Hagedorn, D. J., 1952

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Vicia atropurpurea*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Vicia faba*

Hagedorn, D. J. and E. W. Hanson, 1951

Osborn, H. T., 1937

Roberts, D. A., 1957

*Vicia faba* var. *minor* \*

Hagedorn, D. J. and J. C. Walker, 1954

*Vicia grandiflora*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

## VIRUS

## V. RED CLOVER VEIN MOSAIC (cont.)

*Vicia monantha*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

*Vicia sativa*

Hagedorn, D. J. and J. C. Walker, 1949, 1954

## V. RED CURRANT MOSAIC Hildebrand 1939

*Ribes rubrum*

Hildebrand, E. M., 1939

## V. RED CURRANT RING SPOT Klesser 1951

*Amaranthus tricolor*

Klesser, P. J., 1951

*Cucumis sativus*

Klesser, P. J., 1951

*Datura stramonium*

Klesser, P. J., 1951

*Lycopersicon esculentum*

Klesser, P. J., 1951

*Nicandra physalodes*

Klesser, P. J., 1951

*Nicotiana glauca*

Klesser, P. J., 1951

*Nicotiana glutinosa*

Klesser, P. J., 1951

*Nicotiana rustica*

Klesser, P. J., 1951

*Nicotiana sylvestris*

Klesser, P. J., 1951

*Nicotiana tabacum*

Klesser, P. J., 1951

*Petunia hybrida*

Klesser, P. J., 1951

*Physalis angulata*

Klesser, P. J., 1951

*Ribes rubrum*

Klesser, P. J., 1951

*Solanum muricatum*

Klesser, P. J., 1951

*Solanum nigrum*

Klesser, P. J., 1951

*Solanum nodiflorum*

Klesser, P. J., 1951

*Spinacea oleracea*

Klesser, P. J., 1951

*Tetragonia expansa*

Klesser, P. J., 1951

*Zinnia elegans*

Klesser, P. J., 1951

## V. RED RASPBERRY MOTTLE MOSAIC \*

*Rubus idaeus*

Vaughan, Edward K. and Harold W. Wiedman, 1955

*Rubus idaeus* var. *strigosus*

Vaughan, Edward K. and Harold W. Wiedman, 1955

*Rubus occidentalis*

Vaughan, Edward K. and Harold W. Wiedman, 1955

## V. RHUBARB MOSAIC \*

*Rheum officinale*

(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

*Rumex obtusifolius*

(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. RHUBARB RING SPOT \*

*Cucumis sativus*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

*Dianthus barbatus*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

*Fagopyrum esculentum*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

*Phaseolus vulgaris*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

*Rheum rhaponticum*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

*Rumex crispus*

Vaughan, Edward K. and John W. Yale, Jr., 1953

Yale, John W., Jr. and Edward K. Vaughan, 1954

- VIRUS
- V. RHUBARB RING SPOT \* (cont.)
- Spinacia oleracea*  
Vaughan, Edward K. and John W. Yale, Jr., 1953  
Yale, John W., Jr. and Edward K. Vaughan, 1954
- Vicia faba*  
Vaughan, Edward K. and John W. Yale, Jr., 1953  
Yale, John W., Jr. and Edward K. Vaughan, 1954
- Zinnia elegans*  
Vaughan, Edward K. and John W. Yale, Jr., 1953  
Yale, John W., Jr. and Edward K. Vaughan, 1954
- V. RICE AND CORN LEAF GALL \*
- Coix lachryma-jobi*  
Agati, Julian A. and Carlos A. Calica, 1950
- Dactyloctenium aegyptium*  
Agati, Julian A. and Carlos A. Calica, 1950
- Eleusine indica*  
Agati, Julian A. and Carlos A. Calica, 1950
- Holcus halepensis*  
Agati, Julian A. and Carlos A. Calica, 1950
- Ischaemum rogosum*  
Agati, Julian A. and Carlos A. Calica, 1950
- Oryza minuta*  
Agati, Julian A. and Carlos A. Calica, 1950
- Oryza sativa*  
Agati, Julian A. and Carlos Calica, 1949
- Rottboellia exaltata*  
Agati, Julian A. and Carlos Calica, 1950
- Saccharum officinarum*  
Agati, Julian A. and Carlos A. Calica, 1950
- Sorghum vulgare*  
Agati, Julian A. and Carlos A. Calica, 1950
- Zea mays*  
Agati, Julian A. and Carlos Calica, 1949
- V. RICE DWARF Fukushi 1931
- Alopecurus fulvus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Avena sativa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Echinochloa crus-galli* var. *edulis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Oryza sativa*  
Agati, Julian A., Pedro L. Sison and Roman Abalos, 1941  
Katsura, S., 1936
- Panicum miliaceum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Poa pratensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Secale cereale*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Triticum aestivum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. ROBINIA BROOMING K.M. Smith 1957
- Robinia pseudoacacia*  
Grant, Theodore J., 1939  
Hartley, C. and L.W.R. Jackson, 1933  
Jackson, L.W.R. and C. Hartley, 1933
- V. ROSE COWL FORMING Klastersky 1951
- Rosa* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tilia platyphyllos*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tilia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. ROSE MOSAIC Weiss and McWhorter 1928
- Citrullus vulgaris*  
Fulton, Robert W., 1952
- Convolvulus tricolor*  
Fulton, Robert W., 1952
- Crotalaria intermedia*  
Fulton, Robert W., 1952
- Cucumis sativus*  
Fulton, Robert W., 1952
- Cucurbita maxima*  
Fulton, Robert W., 1952
- Cucurbita pepo*  
Fulton, Robert W., 1952
- VIRUS
- V. ROSE MOSAIC (cont.)
- Cyamopsis tetragonoloba*  
Fulton, Robert W., 1952
- Cynara cardunculus*  
Fulton, Robert W., 1952
- Dolichos biflorus*  
Fulton, Robert W., 1952
- Fragaria* spp.  
Fulton, Robert W., 1952
- Fragaria vesca*  
Fulton, Robert W., 1952
- Nerium oleander*  
Fulton, Robert W., 1952
- Nicotiana benthamiana*  
Fulton, Robert W., 1952
- Nicotiana forgetiana*  
Fulton, Robert W., 1952
- Nicotiana fragrans*  
Fulton, Robert W., 1952
- Nicotiana glutinosa*  
Fulton, Robert W., 1952
- Nicotiana occidentalis*  
Fulton, Robert W., 1952
- Nicotiana rustica*  
Fulton, Robert W., 1952
- Petunia hybrida*  
Fulton, Robert W., 1952
- Phaseolus aconitifolius*  
Fulton, Robert W., 1952
- Phaseolus aureus*  
Fulton, Robert W., 1952
- Phaseolus vulgaris*  
Fulton, Robert W., 1952
- Potentilla monspeliensis*  
Fulton, Robert W., 1952
- Potentilla recta*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fulton, Robert W., 1952
- Rosa canina*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa chinensis* var. *manetti*  
Brierley, Philip and Floyd F. Smith, 1940  
Nelson, R., 1930  
Thomas, H. Earl and L.M. Massey, 1939  
White, R.P., 1930, 1932  
(*Rosa chinensis* x *Rosa moschata*) x *Rosa foetida*  
Nelson, R., 1930
- Rosa hugonis*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa hybrid*  
Thomas, H. Earl and L.M. Massey, 1939
- Rosa multiflora*  
Brierley, Philip and Floyd F. Smith, 1940  
Fulton, Robert W., 1952  
Thomas, H. Earl and L.M. Massey, 1939  
White, R.P., 1930, 1932
- Rosa multiflora* x *Rosa chinensis*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa noisettiana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa nutkana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa odorata*  
Brierley, Philip and Floyd F. Smith, 1940  
Nelson, R., 1930  
Thomas, H. Earl and L.M. Massey, 1939  
White, R.P., 1930, 1932, 1934
- Rosa setigera*  
Fulton, Robert W., 1952
- Rosa* spp.  
Brierley, Philip and Floyd F. Smith, 1940  
Thomas, H. Earl and L.M. Massey, 1939  
White, R.P., 1932
- Rosa wichuraiana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rubus parviflorus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Vigna sinensis*  
Fulton, Robert W., 1952
- Vinca rosea*  
Fulton, Robert W., 1952

## VIRUS

## V. ROSE ROSETTE Thomas and Scott 1953

- Rosa californica*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa chinensis* var. *manetti*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa multiflora*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa nutkana*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa odorata*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa odorata* var. *gigantea*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa pisocarpa*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa rubrifolia*  
Thomas, H. Earl and C. Emlen Scott, 1953
- Rosa spinosissima*  
Thomas, H. Earl and C. Emlen Scott, 1953

## V. ROSE STREAK Brierley 1935

- Rosa canina*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa hybrid*  
Brierley, P., 1935
- Rosa multiflora*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa multiflora* x *Rosa chinensis*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa noisettiana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa nutkana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa odorata*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa* spp.  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa wichuraiana*  
Brierley, Philip and Floyd F. Smith, 1940

## V. ROSE WILT Grieve 1931

- Rosa* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. ROSE YELLOW MOSAIC Brierley 1935

- Rosa canina*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa chinensis* var. *manetti*  
Brierley, Philip and Floyd F. Smith, 1940  
Thomas, H. Earl and L. M. Massey, 1939
- Rosa hugonis*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa hybrid*  
Thomas, H. Earl and L. M. Massey, 1939
- Rosa multiflora*  
Brierley, Philip and Floyd F. Smith, 1940  
Thomas, H. Earl and L. M. Massey, 1939
- Rosa multiflora* x *Rosa chinensis*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa noisettiana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa nutkana*  
Brierley, Philip and Floyd F. Smith, 1940
- Rosa odorata*  
Brierley, Philip and Floyd F. Smith, 1940  
Thomas, H. Earl and L. M. Massey, 1939
- Rosa* spp.  
Brierley, Philip and Floyd F. Smith, 1940  
Thomas, H. Earl and L. M. Massey, 1939
- Rosa wichuraiana*  
Brierley, Philip and Floyd F. Smith, 1940

## V. RUBUS STUNT Prentice 1950

- Rubus fruticosus*  
Prentice, I. W., 1951
- Rubus idaeus*  
Prentice, I. W., 1951
- Rubus laciniatus*  
Prentice, I. W., 1951
- Rubus loganobaccus*  
Prentice, I. W., 1951

## VIRUS

## V. RUBUS YELLOW NET Stace-Smith 1955

- Rubus albescens*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rubus occidentalis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rubus procerus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rubus strigosus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. RYEGRASS MOSAIC \*

- Avena fatua*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Bromus commutatus*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Bromus mollis*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Bromus racemosus*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Bromus secalinus*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Bromus tectorum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Dactylis glomerata*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Festuca elatior*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Hordeum leporinum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Lolium multiflorum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Lolium perenne*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Lolium remotum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Lolium temulentum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957
- Triticum aestivum*  
Bruehl, G. W., H. Toko and H. H. McKinney, 1957

## V. SALVIA CHLOROSIS \*

- Salvia coccinea*  
Verma, G. S. and A. K. Bose, 1955

## V. SANDAL LEAF CURL MOSAIC Venkata Rao 1933

- Santalum album*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. SANDAL SPIKE

- Dodonaea viscosa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Santalum album*  
Iyengar, A. V. Varadaraja, 1938  
Narasimhan, M. J., 1928
- Stachytarpheta indica*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Vinca rosea*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Zizyphus oenoplia*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. SCAEVOLA FRUTESCENS RING SPOT \*

- Scaevola frutescens*  
Jensen, D. D., 1949

## V. SESAMUM PHYLLODY \*

- Sesamum indicum*  
Pal, B. P. and Pushkar Nath, 1935
- Sesamum occidentale* \*  
Vasudeva, R. S. and H. S. Sahambi, 1955
- Sesamum orientale*  
Vasudeva, R. S. and H. S. Sahambi, 1955

## V. SOIL-BORNE OAT MOSAIC McKinney 1946, 1953

- Avena byzantina*  
McKinney, H. H., 1946
- Avena sativa*  
Hadden, S. J. and H. F. Harrison, 1955  
McKinney, H. H., 1946  
Moseman, J. G., U. R. Gore and H. H. McKinney, 1953
- Triticum aestivum*  
McKinney, H. H., 1946



- VIRUS
- V. SOIL-BORNE WHEAT MOSAIC McKinney 1925, 1953
- Hordeum sativum
    - McKinney, H.H., 1930
  - Hordeum vulgare
    - McKinney, H.H., 1948
  - Secale cereale
    - McKinney, H.H., 1925, 1930
    - Sill, W.J., Jr., 1955
  - Triticum aestivum
    - Bever, Wayne M. and J.W. Pendleton, 1954
    - Koehler, Benjamin, W.M. Bever and O.T. Bennett, 1952
    - McKinney, H.H., 1925, 1947, 1948
    - Moseman, J.G., H.H. McKinney and C.W. Roane, 1954
    - Roane, C.W., T.M. Starling and H.H. McKinney, 1954
    - Wadsworth, D.F. and H.C. Young, Jr., 1953
  - Triticum compactum
    - McKinney, H.H., 1930
  - Triticum dicoccum
    - McKinney, H.H., 1930
  - Triticum durum
    - McKinney, H.H., 1930
  - Triticum monococcum
    - McKinney, H.H., 1930
  - Triticum polonicum
    - McKinney, H.H., 1930
  - Triticum spelta
    - McKinney, H.H., 1930, 1953
    - Wadsworth, D.F. and H.C. Young, Jr., 1953
  - Triticum turgidum
    - McKinney, H.H., 1930
  - Triticum vulgare
    - McKinney, H.H., 1930
- V. (SOUR) CHERRY YELLOWS Keitt and Clayton 1939,
- Cucumis sativus 1943
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Willison, R.S., 1951
  - Cucurbita maxima
    - Milbrath, J.A., 1956
  - Prunus armeniaca
    - Moore, J. Duain and H.R. Cameron, 1956
  - Prunus avium
    - Cation, Donald, 1952
    - Richards, B.L. and L.C. Cochran, 1956
  - Prunus cerasus
    - Berkeley, G.H. and R.S. Willison, 1948
    - Cation, Donald, 1952
    - Fink, Harry C., 1955
    - Fulton, Robert W., 1956
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Hildebrand, E.M., 1942, 1943, 1944
    - Hildebrand, E.M. and W.D. Mills, 1941
    - Keitt, G.W. and C.N. Clayton, 1939, 1940, 1941, 1943
    - Milbrath, J.A., 1957
    - Moore, J. Duain and H.R. Cameron, 1956
    - Moore, J. Duain and G.W. Keitt, 1944, 1946
    - Moore, J. Duain and D.A. Slack, 1952
    - Nyland, George, 1952
    - Rasmussen, E.J. and Donald Cation, 1942
    - Richards, B.L. and L.C. Cochran, 1956
  - Prunus domestica
    - Berkeley, G.H., 1947
    - Berkeley, G.H. and R.S. Willison, 1948
    - Hildebrand, E.M., 1944
    - Moore, J. Duain, 1951
    - Moore, J. Duain and H.R. Cameron, 1956
    - Richards, B.L. and L.C. Cochran, 1956
  - Prunus mahaleb
    - Berkeley, G.H. and R.S. Willison, 1948
    - Cation, Donald, 1949, 1952
    - Keitt, G.W. and C.N. Clayton, 1943
    - Rasmussen, E.J. and Donald Cation, 1942
    - Richards, B.L. and L.C. Cochran, 1956
  - Prunus pensylvanica
    - Keitt, G.W. and C.N. Clayton, 1943
  - Prunus persica
    - Berkeley, G.H., 1947
    - Berkeley, G.H. and R.S. Willison, 1948
    - Cation, Donald, 1949
    - Gilmer, R.M., K.D. Brase and K.G. Parker, 1957
    - Hildebrand, E.M., 1942, 1943, 1944
- VIRUS
- V. (SOUR) CHERRY YELLOWS (cont.)
- Prunus persica
    - Rasmussen, E.J. and Donald Cation, 1942
    - Richards, B.L. and L.C. Cochran, 1956
    - Young, H.C., Jr., 1951
  - Prunus serotina
    - Keitt, G.W. and C.N. Clayton, 1943
    - Richards, B.L. and L.C. Cochran, 1956
  - Prunus tomentosa
    - Fink, Harry C., 1955
    - Young, H.C., Jr., 1951
  - Prunus virginiana
    - Keitt, G.W. and C.N. Clayton, 1943
    - Richards, B.L. and L.C. Cochran, 1956
  - Sesbania exaltata
    - Fulton, Robert W., 1956
- V. SOYBEAN MOSAIC Gardner and Kendrick 1921
- Glycine max
    - Conover, Robert A., 1948
    - Gardner, Max W. and James B. Kendrick, 1921
    - Kendrick, James B. and Max W. Gardner, 1924
    - Pierce, W.H., 1935
- V. SOYBEAN NEW DISEASE \*
- Glycine max
    - Dunleavy, John, 1957
  - Melilotus alba
    - Dunleavy, John, 1957
  - Setaria viridis
    - Dunleavy, John, 1957
- V. SPARAXIS MOSAIC Smith and Brierley 1944
- Sparaxis spp.
    - Smith, Floyd F. and Philip Brierley, 1944
  - Tritonia crocata
    - Smith, Floyd F. and Philip Brierley, 1944
- V. SPINACH YELLOW DWARF Severin and Little 1947
- Spinacia oleracea
    - Severin, Henry H.P. and Donald H. Little, 1947
- V. SQUASH MOSAIC Middleton 1949
- Anthriscus cerefolium
    - Freitag, J.H., 1956
  - Citrullus vulgaris
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Citrullus vulgaris var. citroides
    - Freitag, J.H., 1956
  - Coriandrum sativum
    - Freitag, J.H., 1956
  - Cucumis anguria
    - Freitag, J.H., 1956
  - Cucumis melo
    - Freitag, J.H., 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Cucumis sativus
    - Freitag, J.H., 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Cucurbita maxima
    - Freitag, J.H., 1941, 1952, 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Cucurbita mixta
    - Freitag, J.H., 1956
  - Cucurbita moschata
    - Freitag, J.H., 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
  - Cucurbita pepo
    - Freitag, J.H., 1956
    - Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
    - Middleton, John T., 1944
  - Cucurbita pepo var. melopepo
    - Freitag, J.H., 1956
  - Lagenaria siceraria (Lagenaria leucantha)
    - Freitag, J.H., 1956
  - Lathyrus odoratus
    - Freitag, J.H., 1956
  - Momordica charantia
    - Freitag, J.H., 1956
  - Phacelia campanularia
    - Freitag, J.H., 1956
  - Trichosanthes anguina
    - Freitag, J.H., 1956

## VIRUS

## V. SQUASH MOSAIC (SOUTHERN) Anderson 1951

- Citrullus vulgaris*  
Anderson, C. W., 1951
- Cucumis sativus*  
Anderson, C. W., 1951
- Cucurbita moschata*  
Anderson, C. W., 1951
- Pisum sativum*  
Freitag, J. H., 1956

## V. STACHYTARPHETA CAYENNENSIS MOSAIC \*

- Stachytarpheta cayennensis*  
Jensen, D. D., 1949

## V. (STANDARD) PRUNE CONSTRICTING MOSAIC Thomas and Rawlins 1951

- Prunus domestica*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Thomas, H. Earl and T. E. Rawlins, 1939
- Prunus persica*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Thomas, H. Earl and T. E. Rawlins, 1939

## V. STOCK MOSAIC Tompkins 1939

- Matthiola incana*  
Tompkins, C. M., 1934

## V. STONE FRUIT \*

- Cucumis sativus*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954  
Lindner, R. C., Hugh C. Kirkpatrick and T. E. Weeks, 1955
- Cucurbita maxima*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Plantago major*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus americana*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus avium*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus cerasus*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus domestica*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus dunbarii*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus glandulosa*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus japonica*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus maackii*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus mahaleb*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus padus*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus pensylvanica*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus pumila*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus serotina*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus virginiana*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954

## V. STONE FRUIT NECROTIC RING SPOT \*

- Cucumis sativus*  
Gilmer, R. M., 1956
- Cucurbita pepo*  
Willison, R. S., 1951
- Prunus armeniaca*  
Moore, J. Duain and H. R. Cameron, 1956
- Prunus cerasus*  
Moore, J. Duain and H. R. Cameron, 1956
- Prunus domestica*  
Fridlund, Paul R., 1954  
Moore, J. Duain and H. R. Cameron, 1956
- Prunus tomentosa*  
Fridlund, Paul R., 1954
- Prunus virginiana*  
Fridlund, Paul R., 1954

## VIRUS

## V. STONE FRUIT RING SPOT \*

- Cucumis sativus*  
Heinis, J. L., 1956  
Heinis, J. L. and J. A. Milbrath, 1954
- Cucurbita maxima*  
Milbrath, J. A., 1956
- Prunus armeniaca*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus avium*  
Heinis, Julius L., 1956  
Heinis, J. L. and J. A. Milbrath, 1954  
Richards, B. L. and L. C. Cochran, 1956
- Prunus besseyi*  
Boyle, J. S., J. Duain Moore and G. W. Keitt, 1954
- Prunus cerasus*  
Heinis, J. L. and J. A. Milbrath, 1954  
Millikan, D. F., 1955  
Richards, B. L. and L. C. Cochran, 1956
- Prunus domestica*  
Richards, B. L. and L. C. Cochran, 1956
- Prunus mahaleb*  
Heinis, J. L. and J. A. Milbrath, 1954
- Prunus persica*  
Heinis, Julius L., 1956  
Heinis, J. L. and J. A. Milbrath, 1954  
Richards, B. L. and L. C. Cochran, 1956
- Prunus serrulata*  
Heinis, Julius L., 1956  
Heinis, J. L. and J. A. Milbrath, 1954  
Richards, B. L. and L. C. Cochran, 1956

## V. STRAWBERRY CRINKLE Zeller and Vaughan 1932

- Fragaria bracteata*  
Frazier, Norman W., 1951
- Fragaria chiloensis*  
Harris, R. V. and Mary E. King, 1942  
Miller, P. W., 1951  
Zeller, S. M., 1933
- Fragaria chiloensis* var. *ananassa*  
Beaumont, A. and L. N. Staniland, 1945  
Miller, P. W., 1952  
Prentice, I. W., 1949, 1952  
Vaughan, E. K., 1933  
Zeller, S. M., 1933
- Fragaria cuneifolia*  
Zeller, S. M., 1933
- Fragaria ovalis*  
Miller, P. W., 1951
- Fragaria* spp.  
Harris, R. V. and Mary E. King, 1942  
Massee, A. M., 1942
- Fragaria vesca*  
Demaree, J. B. and C. P. Marcus, 1951  
Harris, R. V. and Mary E. King, 1942  
Massee, A. M., 1942  
Miller, P. W., 1951, 1952  
Prentice, I. W., 1949, 1952  
Prentice, I. W. and Tamsyn M. Woollcombe, 1951  
Smith, Harlan E., 1952  
Smith, Harlan E. and J. Duain Moore, 1952
- Fragaria vesca* var. *alpina* \*  
Miller, P. W., 1951

## V. STRAWBERRY GREEN PETAL Posnette 1953

- Anagallis arvensis*  
Frazier, N. W. and A. F. Posnette, 1957
- Anthemis cotula*  
Frazier, N. W. and A. F. Posnette, 1957
- Callistephus chinensis*  
Frazier, N. W. and A. F. Posnette, 1957
- Crotalaria juncea*  
Rose, B. D. and S. D. Misra, 1938
- Duchesnea indica*  
Frazier, N. W. and A. F. Posnette, 1957
- Erodium cicutarium*  
Frazier, N. W. and A. F. Posnette, 1957
- Fragaria chiloensis* var. *ananassa*  
Posnette, A. F., 1953
- Fragaria vesca*  
Frazier, N. W. and A. F. Posnette, 1957
- Helenium* spp.  
Frazier, N. W. and A. F. Posnette, 1957

- VIRUS
- V. STRAWBERRY GREEN PETAL (cont.)
- Phaseolus vulgaris
    - Dana, B. F., 1947
  - Solanum tuberosum
    - Frazier, N. W. and A. F. Posnette, 1957
  - Trifolium incarnatum
    - Frazier, N. W. and A. F. Posnette, 1957
  - Trifolium pratense
    - Frazier, N. W. and A. F. Posnette, 1957
  - Trifolium repens
    - Frazier, N. W. and A. F. Posnette, 1957
- V. STRAWBERRY, ISOLATE I, MILD MOTTLE \*
- Fragaria chiloensis var. ananassa
    - Rorie, Forest Gay, 1957
  - Fragaria vesca
    - Rorie, Forest Gay, 1957
- V. STRAWBERRY, ISOLATE II \*
- Fragaria chiloensis var. ananassa
    - Rorie, Forest Gay, 1957
  - Fragaria vesca
    - Rorie, Forest Gay, 1957
- V. STRAWBERRY LATENT Frazier 1953
- Fragaria bracteata
    - Frazier, Norman W., 1953
  - Fragaria chiloensis
    - Miller, P. W., 1951
  - Fragaria chiloensis var. ananassa
    - McGrew, J. R., 1956
  - Fragaria ovalis
    - Miller, P. W., 1951
  - Fragaria vesca
    - Frazier, Norman W., 1953
    - McGrew, J. R., 1956
- V. STRAWBERRY LEAF BURN \*
- Fragaria spp.
    - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. STRAWBERRY LEAF ROLL Berkeley and Plakidas 1942
- Fragaria virginiana
    - Berkeley, G. H. and A. G. Plakidas, 1942
- V. STRAWBERRY MILD MOTTLE \*
- Fragaria chiloensis var. ananassa
    - McGrew, J. R., 1956
  - Fragaria vesca
    - McGrew, J. R., 1956
- V. STRAWBERRY MILD YELLOW EDGE Prentice 1948
- Fragaria chiloensis var. ananassa
    - Prentice, I. W., 1952
  - Fragaria vesca
    - Prentice, I. W., 1952
- V. STRAWBERRY MOSAIC Brandes 1920
- Fragaria spp.
    - (K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. STRAWBERRY MOTTLE Prentice 1952
- Asclepias syriaca
    - Smith, Harlan E. and J. Duain Moore, 1952
  - Fragaria chiloensis var. ananassa
    - Mellor, Frances C. and R. E. Fitzpatrick, 1952
    - Prentice, Ian W., 1948, 1952
    - Scott, D. H., D. P. Ink, George M. Darrow and C. P. Marcus, 1952
  - Fragaria vesca
    - Demaree, J. B. and C. P. Marcus, 1951
    - Prentice, Ian W., 1948, 1952
    - Scott, D. H., D. P. Ink, George M. Darrow and C. P. Marcus, 1952
    - Smith, Harlan E., 1952
    - Smith, Harlan E. and J. Duain Moore, 1952
    - Stubbs, L. L., 1957
  - Fragaria vesca subsp. californica
    - Thomas, Harold E., 1949
  - Potentilla simplex
    - Demaree, J. B. and C. P. Marcus, 1951
- VIRUS
- V. STRAWBERRY STUNT Zeller and Weaver 1941
- Fragaria chiloensis var. ananassa
    - Skiles, R. L. and T. H. King, 1952
    - Zeller, S. M. and L. E. Weaver, 1941
  - Fragaria vesca
    - Skiles, R. L. and T. H. King, 1952
- V. STRAWBERRY, TYPE 2 \*
- Fragaria chiloensis var. ananassa
    - Braun, Alvin J., 1955
    - Fulton, R. H., 1954
  - Fragaria vesca
    - Braun, Alvin J., 1955
    - Demaree, J. B. and C. P. Marcus, 1951
    - Fulton, R. H., 1954
    - Smith, Harlan E., 1952
    - Smith, Harlan E. and J. Duain Moore, 1952
  - Fragaria vesca subsp. californica
    - Thomas, Harold E., 1949
  - Potentilla simplex
    - Demaree, J. B. and C. P. Marcus, 1951
- V. STRAWBERRY VEINBANDING Frazier 1955
- Fragaria californica
    - Frazier, Norman W., 1955
  - Fragaria chiloensis var. ananassa
    - Frazier, Norman W., 1955
  - Fragaria vesca
    - Frazier, Norman W., 1955
- V. STRAWBERRY VEIN CHLOROSIS Prentice 1952
- Fragaria chiloensis var. ananassa
    - Prentice, I. W., 1952
  - Fragaria vesca
    - Prentice, I. W., 1952
- V. STRAWBERRY WITCHES' BROOM Zeller 1927
- Fragaria chiloensis var. ananassa
    - Mellor, Frances C. and R. E. Fitzpatrick, 1952
    - Prentice, Ian W., 1948
    - Zeller, S. M., 1927
  - Fragaria vesca
    - Prentice, Ian W., 1948
- V. STREPTANTHERA MOSAIC Smith and Brierley 1944
- Streptanthera cuprea
    - Smith, Floyd F. and Philip Brierley, 1944
  - Tritonia crocata
    - Smith, Floyd F. and Philip Brierley, 1944
- V. SUBTERRANEAN CLOVER, APHID-TRANSMITTED \*
- Trifolium subterraneum
    - Grylls, N. E. and F. C. Butler, 1956
- V. SUBTERRANEAN CLOVER MOSAIC Aitken and Grieve 1943
- Glycine max
    - Aitken, Y. and B. J. Grieve, 1943
  - Lathyrus odoratus
    - Aitken, Y. and B. J. Grieve, 1943
  - Lupinus angustifolius
    - Aitken, Y. and B. J. Grieve, 1943
  - Lupinus hirsutus
    - Aitken, Y. and B. J. Grieve, 1943
  - Lupinus luteus
    - Aitken, Y. and B. J. Grieve, 1943
  - Lupinus varius
    - Aitken, Y. and B. J. Grieve, 1943
  - Medicago arabica
    - Aitken, Y. and B. J. Grieve, 1943
  - Medicago hispida var. denticulata \*
    - Aitken, Y. and B. J. Grieve, 1943
  - Medicago lupulina
    - Aitken, Y. and B. J. Grieve, 1943
  - Medicago tribuloides
    - Aitken, Y. and B. J. Grieve, 1943
  - Melilotus alba
    - Aitken, Y. and B. J. Grieve, 1943
  - Melilotus indica
    - Aitken, Y. and B. J. Grieve, 1943
  - Phaseolus lunatus f. macrocarpus
    - Aitken, Y. and B. J. Grieve, 1943
  - Phaseolus vulgaris
    - Aitken, Y. and B. J. Grieve, 1943

## VIRUS

## V. SUBTERRANEAN CLOVER MOSAIC (cont.)

- Pisum sativum*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium angustifolium*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium glomeratum*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium hybridum*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium incarnatum*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium minus*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium pratense*  
Aitken, Y. and B. J. Grieve, 1943
- Trifolium striatum*  
Aitken, Y. and B. J. Grieve, 1943
- Trigonella foenum-graecum*  
Aitken, Y. and B. J. Grieve, 1943
- Trigonella ornithopodioides*  
Aitken, Y. and B. J. Grieve, 1943
- Vicia faba* var. *major* \*  
Aitken, Y. and B. J. Grieve, 1943
- Vicia faba* var. *minor* \*  
Aitken, Y. and B. J. Grieve, 1943

V. SUGARCANE CHLOROTIC STREAK Abbott and Ingram  
Saccharum officinarum 1942

- Abbott, E. V., 1945, 1947  
Abbott, E. V. and J. W. Ingram, 1942  
Adsuar, Jose, 1946

## V. SUGARCANE DWARF Bell 1932; Storey 1936

- Saccharum officinarum  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. SUGARCANE FIJI DISEASE ((Muir 1910)) Kunkel

- 1924; Ocfemia 1932; Montgomery and Bell 1933  
Saccharum officinarum  
Ocfemia, Gerardo Offimaria, 1934  
Ocfemia, Gerardo Offimaria and Martin S. Celino, 1939  
Ocfemia, G. O., Evaristo A. Hurtado and Crispiniano C. Hernandez, 1933

## V. SUGARCANE GREEN MOSAIC \*

- Saccharum officinarum  
Forbes, I. L. and P. J. Mills, 1942

## V. SUGARCANE MOSAIC Brandes 1920

- Andropogon sorghum*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Andropogon sorghum* var. *virgatus* \*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Brachiaria platyphylla*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Cymbopogon nardus*  
Costa, A. S. and M. P. Penteado, 1951  
Lawas, Orencio M. and William L. Fernandez, 1949
- Dactyloctenium aegyptium*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Digitaria corymbosa*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Digitaria sanguinalis*  
Ingram, J. W. and E. M. Summers, 1938
- Echinochloa colonum*  
Chardon, C. E. and R. A. Veve, 1923
- Echinochloa crus-galli*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Eleusine indica*  
Chardon, C. E. and R. A. Veve, 1923  
Lawas, Orencio M. and William L. Fernandez, 1949
- Eragrostis amabilis*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Euchlaena mexicana*  
Chona, B. L. and S. A. Rafay, 1950
- Gynerium sagittatum*  
Abbott, E. V., 1930
- Holcus halepensis*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Holcus sorghum*  
Adsuar, Jose, 1950, 1954  
Brandes, E. W. and Peter J. Klaphaak, 1923

## VIRUS

## V. SUGARCANE MOSAIC (cont.)

- Miscanthus sinensis*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Musa textilis*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Panicum dichotomiflorum*  
Brandes, E. W., 1920  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Paspalum boscianum*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Paspalum conjugatum*  
Lawas, Orencio M. and William L. Fernandez, 1949
- Pennisetum glaucum*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Pennisetum purpureum*  
Bruehl, G. W., 1953
- Saccharum narenga*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Saccharum officinarum*  
Abbott, E. V., 1929, 1931, 1949, 1952  
Adsuar, Jose, 1950, 1954  
Brandes, E. W., 1920  
Brandes, E. W. and Peter J. Klaphaak, 1923  
Bruehl, George W., 1953, 1954  
Chardon, C. E. and R. A. Veve, 1923  
Chona, B. L. and S. A. Rafay, 1950  
Costa, A. S. and M. P. Penteado, 1951  
Edgerton, C. W., I. L. Forbes and P. J. Mills, 1937  
Edgerton, C. W. and W. G. Taggart, 1924  
Forbes, I. L. and Jean Dufrenoy, 1943  
Forbes, I. L. and P. J. Mills, 1943, 1945  
Gonzales-Rios, P. and J. Adsuar, 1953  
Ingram, J. W., 1936  
Ingram, J. W. and E. M. Summers, 1938  
Kunkel, L. O., 1927  
Luthra, Jai Chand and Abdus Sattar, 1935  
Matz, Julius, 1933, 1934  
McKinney, H. H., 1929  
Ocfemia, G. O., 1932  
Ocfemia, G. O., Evaristo A. Hurtado and Crispiniano C. Hernandez, 1933  
Sein, Francisco, Jr., 1930  
Storey, H. H., 1929  
Summers, E. M., 1934  
Tate, H. D. and S. R. Vandenberg, 1939  
Tims, E. C., 1935  
Tims, E. C. and C. W. Edgerton, 1931, 1932  
Tims, E. C., P. J. Mills and C. W. Edgerton, 1935
- Setaria lutescens*  
Brandes, E. W., 1920  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Setaria sulcata*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- (*Chaetochloa*) *magna*  
Brandes, E. W. and Peter J. Klaphaak, 1923
- Sorghum arundinaceum*  
Storey, H. H., 1929
- Sorghum* spp.  
Storey, H. H., 1929
- Sorghum vulgare*  
Costa, A. S. and M. P. Penteado, 1951  
Chona, B. L. and S. A. Rafay, 1950
- Sorghum vulgare* var. *saccharatum*  
Brandes, E. W., 1920  
Matz, Julius, 1933
- Syntherisma sanguinale*  
Brandes, E. W., 1920  
Brandes, E. W. and Peter J. Klaphaak, 1923  
Chardon, C. E. and R. A. Veve, 1923
- Tripsacum laxum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Zea mays*  
Brandes, E. W., 1920  
Brandes, E. W. and Peter J. Klaphaak, 1923  
Chona, B. L. and S. A. Rafay, 1950  
Costa, A. S. and M. P. Penteado, 1951  
Lawas, Orencio M. and William L. Fernandez, 1949  
Storey, H. H., 1929  
Tims, E. C., P. J. Mills and C. W. Edgerton, 1935

- VIRUS**
- V. SUGARCANE RATOON STUNTING Steindl and Hughes 1953  
*Saccharum officinarum*  
 Bruehl, G.W., 1955  
 Steib, R.J., I.L. Forbes and S.J.P. Chilton, 1957
- V. SUGARCANE SEREH DISEASE Kunkel 1928  
*Saccharum officinarum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. SUGARCANE STREAK Storey 1925  
*Eleusine indica*  
 Storey, H.H. and A.P.D. McClean, 1930  
*Saccharum officinarum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Saccharum* spp.  
 Storey, H.H. and A.P.D. McClean, 1930  
*Zea mays*  
 Storey, H.H. and A.P.D. McClean, 1930
- V. SUGARCANE YELLOW MOSAIC \*  
*Saccharum officinarum*  
 Forbes, I.L. and P.J. Mills, 1942
- V. SUNFLOWER MOSAIC Traversi 1949  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Zea mays*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. SWEET CLOVER NEW \*  
*Nicotiana tabacum*  
 Henderson, R.G., 1934  
*Petunia hybrida*  
 Henderson, R.G., 1934
- V. SWEET PEA MOSAIC \*  
*Lathyrus odoratus*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Phaseolus vulgaris*  
 Zaumeyer, W.J., 1933  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935  
*Pisum sativum*  
 Doolittle, S.P. and F.R. Jones, 1925  
*Trifolium pratense*  
 Doolittle, S.P. and F.R. Jones, 1925
- V. SWEET POTATO A  
*Ipomoea batata*  
 Sheffield, F.M.L., 1957
- V. SWEET POTATO B, STRAINS 1,2,3,4,5 \*  
*Ipomoea batata*  
 Sheffield, F.M.L., 1957
- V. SWEET POTATO FEATHERY MOTTLE Doolittle and Harter 1945  
*Calonyction aculeatum*  
 Webb, Raymon E., 1954  
*Ipomoea batata*  
 Webb, Raymon E., 1954  
 Webb, R.E. and R.H. Larson, 1954  
*Ipomoea purpurea*  
 Webb, R.E., 1954  
*Merremia sibirica*  
 Webb, Raymon E., 1954  
*Quamoclit lobata*  
 Webb, Raymon E., 1954
- V. SWEET POTATO FOLIAGE-SPOTTING DISEASE \*  
*Calonyction aculeatum*  
 Holmes, Francis O., 1956  
*Ipomoea batata*  
 Holmes, Francis O., 1956  
*Ipomoea tricolor*  
 Holmes, Francis O., 1956
- V. SWEET POTATO INTERNAL CORK Nusbaum 1947  
*Ipomoea batata*  
 Aycock, Robert and Morris B. Hughes, 1952  
 Feazell, George D., 1953  
 Hildebrand, E.M., 1956, 1957  
 Hildebrand, E.M. and F.F. Smith, 1956  
 Martin, W.J., 1950, 1955  
 Nielsen, L.W., 1956
- VIRUS**
- V. SWEET POTATO INTERNAL CORK (cont.)  
*Ipomoea batata*  
 Nielsen, L.W. and L.H. Person, 1954  
 Nusbaum, C.J., 1947, 1950  
 Rankin, H.W., 1950  
 Williams, A.S., 1954  
*Ipomoea hederacea*  
 Hildebrand, E.M. and H.A. Borthwick, 1956  
*Ipomoea purpurea*  
 Hildebrand, E.M., 1956  
 Hildebrand, E.M. and H.A. Borthwick, 1956  
 Hildebrand, E.M. and F.F. Smith, 1956  
*Pharbitis diversifolia* \*  
 Hildebrand, E.M. and H.A. Borthwick, 1956  
 Hildebrand, E.M. and F.F. Smith, 1956  
*Pharbitis hederacea*  
 Hildebrand, E.M. and H.A. Borthwick, 1956
- V. SWEET POTATO MOSAIC Sheffield 1953  
*Capsicum frutescens* (*Capsicum annum*)  
 Elmer, O.H., 1957  
*Gomphrena globosa*  
 Elmer, O.H., 1957  
*Ipomoea batata*  
 Adsuar, Jose, 1955  
 Borders, H.I. and T.J. Ratcliff, 1954  
 Elmer, O.H., 1957  
 Rosen, H.R., 1926  
*Ipomoea rubra*  
 Adsuar, Jose, 1955  
*Lycopersicon esculentum*  
 Elmer, O.H., 1957  
*Nicotiana glutinosa*  
 Elmer, O.H., 1957  
*Nicotiana rustica*  
 Elmer, O.H., 1957  
*Nicotiana tabacum*  
 Elmer, O.H., 1957  
*Petunia hybrida*  
 Elmer, O.H., 1957  
*Solanum melongena*  
 Elmer, O.H., 1957  
*Vinca minor*  
 Elmer, O.H., 1957  
*Zinnia elegans*  
 Elmer, O.H., 1957
- V. TABEBUIA WITCHES' BROOM Cook 1938  
*Tabebuia pallida*  
 Cook, M.T., 1937, 1938
- V. TEA PHLOEM NECROSIS Bond 1944  
*Camellia thea* \*  
 Bond, T.E.T., 1944  
*Thea sinensis* (*Camellia sinensis*)  
 Bond, T.E.T., 1947
- V. TEASEL MOSAIC Stoner 1951  
*Dipsacus fullonum*  
 Stoner, Warren N., 1951  
*Scabiosa atropurpurea*  
 Stoner, Warren N., 1951
- V. TIGRIDIA MOSAIC Smith and Brierley 1944  
*Tigridia pavonia*  
 Smith, Floyd F. and Philip Brierley, 1944  
*Tritonia crocata*  
 Smith, Floyd F. and Philip Brierley, 1944
- V. TITHONIA ROTUNDIFOLIA MOSAIC \*  
*Tithonia rotundifolia*  
 Cook, M.T., 1936
- V. TROPAEOLUM MOSAIC Jensen 1950  
*Nicotiana glutinosa*  
 Silberschmidt, Karl, 1953  
*Nicotiana tabacum*  
 Silberschmidt, Karl, 1953  
*Tropaeolum majus*  
 Jensen, D.D., 1950  
 Silberschmidt, Karl, 1953  
*Zinnia elegans*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Silberschmidt, Karl, 1953

## VIRUS

- V. TROPAEOLUM RING SPOT K.M. Smith 1957  
*Nicotiana glutinosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Petunia* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Tropaeolum majus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Vicia faba*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. (TUNG) ROUGH BARK \*  
*Aleurites fordii*  
 Large, John R., 1949
- V. TOBACCO BERGERAC RING SPOT Smith 1937  
*Datura stramonium*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Lycopersicon esculentum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Phaseolus vulgaris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. TOBACCO BROAD RING SPOT J. Johnson and Fulton 1940  
*Acalypha virginica* 1940  
 Johnson, James and Robert W. Fulton, 1942  
*Amaranthus paniculatus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Amaranthus retroflexus*  
 Johnson, James and Robert W. Fulton, 1942  
*Antirrhinum majus*  
 Johnson, James and Robert W. Fulton, 1942  
*Apium graveolens*  
 Johnson, James and Robert W. Fulton, 1942  
*Brassica kaber* (*Brassica arvensis*)  
 Johnson, James and Robert W. Fulton, 1942  
*Brassica nigra*  
 Johnson, James and Robert W. Fulton, 1942  
*Brassica oleracea*  
 Johnson, James and Robert W. Fulton, 1942  
*Brassica oleracea* var. *capitata*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Calendula officinalis*  
 Johnson, James and Robert W. Fulton, 1942  
*Callistephus chinensis*  
 Johnson, James and Robert W. Fulton, 1942  
*Capsella bursa-pastoris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Johnson, James and Robert W. Fulton, 1942  
*Chenopodium album*  
 Johnson, James and Robert W. Fulton, 1942  
*Chenopodium* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Cucumis sativus*  
 Johnson, James and Robert W. Fulton, 1940, 1942  
*Cucurbita maxima*  
 Johnson, James and Robert W. Fulton, 1942  
*Cynoglossum amabile*  
 Johnson, James and Robert W. Fulton, 1942  
*Datura stramonium*  
 Johnson, James and Robert W. Fulton, 1942  
*Delphinium* spp.  
 Johnson, James and Robert W. Fulton, 1942  
*Dolichos lablab*  
 Johnson, James and Robert W. Fulton, 1942  
*Fagopyrum esculentum*  
 Johnson, James and Robert W. Fulton, 1942  
*Hibiscus esculentus*  
 Johnson, James and Robert W. Fulton, 1942  
*Lycopersicon esculentum*  
 Johnson, James and Robert W. Fulton, 1942  
*Mollugo verticillata*  
 Holmes, Francis O., 1946  
*Nicandra physalodes*  
 Johnson, James and Robert W. Fulton, 1942  
*Nicotiana glutinosa*  
 Johnson, James and Robert W. Fulton, 1942  
*Nicotiana rustica*  
 Johnson, James and Robert W. Fulton, 1942

## VIRUS

- V. TOBACCO BROAD RING SPOT (cont.)  
*Nicotiana sylvestris*  
 Johnson, James and Robert W. Fulton, 1942  
*Nicotiana tabacum*  
 Fulton, Robert W., 1941  
 Johnson, James and Robert W. Fulton, 1940, 1942  
*Nicotiana tabacum* var. *angustifolia*  
 Johnson, James and Robert W. Fulton, 1942  
*Petunia violacea*  
 Johnson, James and Robert W. Fulton, 1942  
*Phaseolus vulgaris*  
 Johnson, James and Robert W. Fulton, 1942  
*Physalis* spp.  
 Johnson, James and Robert W. Fulton, 1942  
*Pisum sativum*  
 Johnson, James and Robert W. Fulton, 1942  
*Portulaca oleracea*  
 Johnson, James and Robert W. Fulton, 1942  
*Rumex crispus*  
 Johnson, James and Robert W. Fulton, 1942  
*Solanum melongena*  
 Johnson, James and Robert W. Fulton, 1942  
*Solanum nigrum*  
 Johnson, James and Robert W. Fulton, 1942  
*Solanum tuberosum*  
 Johnson, James and Robert W. Fulton, 1942  
*Spinacia oleracea*  
 Johnson, James and Robert W. Fulton, 1942  
*Trifolium incarnatum*  
 Johnson, James and Robert W. Fulton, 1942  
*Tropaeolum majus*  
 Johnson, James and Robert W. Fulton, 1942  
*Vigna sinensis*  
 Johnson, James and Robert W. Fulton, 1942  
*Zinnia elegans*  
 Johnson, James and Robert W. Fulton, 1942
- V. TOBACCO BROKEN RING SPOT Smith and Markham 1944  
*Cucumis sativus* 1944  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana glutinosa*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Smith, Kenneth M. and Roy Markham, 1944  
*Phaseolus vulgaris*  
 Smith, Kenneth M. and Roy Markham, 1944
- V. TOBACCO COARSE ETCH E.M. Johnson 1930  
*Datura stramonium*  
 Johnson, E.M., 1930  
*Nicandra physalodes*  
 Johnson, E.M., 1930  
*Nicotiana rustica*  
 Johnson, E.M., 1930  
*Nicotiana tabacum*  
 Johnson, E.M., 1930  
*Physalis heterophylla* var. *nyctaginea*  
 Johnson, E.M., 1930  
*Physalis pubescens*  
 Johnson, E.M., 1930  
*Phytolacca decandra*  
 Johnson, E.M., 1930  
*Solanum melongena* var. *esculentum*  
 Johnson, E.M., 1930
- V. TOBACCO ETCH E.M. Johnson 1930  
*Brachycome iberidifolia*  
 Holmes, Francis O., 1946  
*Browallia speciosa*  
 Holmes, Francis O., 1946  
*Callistephus chinensis*  
 Holmes, Francis O., 1946  
*Campanula drabifolia*  
 Holmes, Francis O., 1946  
*Capsicum frutescens* (*Capsicum annuum*)  
 Anderson, C.W., 1954  
 Anderson, C.W. and M.K. Corbett, 1957  
 Doolittle, S.P., 1946  
 Greenleaf, W.H., 1953, 1956  
 Holmes, Francis O., 1942, 1946  
 Johnson, E.M., 1930

## VIRUS

- V. TOBACCO ETCH (cont.)
- Capsicum microcarpum*  
Greenleaf, W.H., 1953
  - Capsicum pendulum*  
Greenleaf, W.H., 1953
  - Cassia tora*  
Anderson, C.W., 1954
  - Celosia argentea*  
Holmes, Francis O., 1946
  - Charieis heterophylla*  
Holmes, Francis O., 1946
  - Chenopodium album*  
Greenleaf, W.H., 1953
  - Chenopodium amaranticolor*  
Hollings, M., 1956
  - Collinsia bicolor*  
Holmes, Francis O., 1946
  - Cuscuta californica*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
  - Cymbalaria muralis*  
Holmes, Francis O., 1946
  - Datura ferox*  
Greenleaf, W.H., 1956
  - Datura meteloides*  
Bennett, C.W., 1944
  - Datura stramonium*  
Anderson, C.W. and M.K. Corbett, 1957  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Fulton, Robert W., 1941  
Greenleaf, W.H., 1956  
Holmes, Francis O., 1942, 1946  
Johnson, E.M., 1930
  - Dimorphotheca aurantiaca*  
Holmes, Francis O., 1946
  - Emmenanthe penduliflora*  
Holmes, Francis O., 1946
  - Eupatorium lasseauxii*  
Holmes, Francis O., 1946
  - Gamolepis tagetes*  
Holmes, Francis O., 1946
  - Gomphrena globosa*  
Greenleaf, W.H., 1953
  - Gypsophila elegans*  
Holmes, Francis O., 1946
  - Helipterum humboldtianum*  
Holmes, Francis O., 1946
  - Hyoscyamus niger*  
Bawden, F.C. and B. Kassanis, 1941
  - Indigofera hirsuta*  
Anderson, C.W. and M.K. Corbett, 1957
  - Lamium amplexicaule*  
Holmes, Francis O., 1946
  - Linaria maroccana*  
Holmes, Francis O., 1946
  - Lobelia gracilis*  
Holmes, Francis O., 1946
  - Lobelia inflata*  
Holmes, Francis O., 1946
  - Lobelia tenuior*  
Holmes, Francis O., 1946
  - Lycium chinense*  
Holmes, Francis O., 1946
  - Lycopersicon esculentum*  
Anderson, C.W., 1954  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Doolittle, S.P. and L.J. Alexander, 1951  
Fulton, Robert W., 1941  
Holmes, Francis O., 1942, 1946  
Johnson, E.M., 1930  
MacNeill, Blair H., 1955  
Valleau, W.D. and E.M. Johnson, 1930
  - Lycopersicon hirsutum*  
Holmes, Francis O., 1946
  - Lycopersicon peruvianum*  
Holmes, Francis O., 1946
  - Lycopersicon pimpinellifolium*  
Holmes, Francis O., 1946
  - Nemophila maculata*  
Holmes, Francis O., 1946
  - Nemophila menziesii* subsp. *insignis*  
Holmes, Francis O., 1946

## VIRUS

- V. TOBACCO ETCH (cont.)
- Nicandra physalodes*  
Fulton, Robert W., 1941  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - Nicotiana acuminata*  
Holmes, Francis O., 1946
  - Nicotiana alata*  
Holmes, Francis O., 1946
  - Nicotiana bigelovii*  
Holmes, Francis O., 1946
  - Nicotiana bonariensis*  
Holmes, Francis O., 1946
  - Nicotiana caudigera*  
Holmes, Francis O., 1946
  - Nicotiana clevelandi*  
Holmes, Francis O., 1946
  - Nicotiana digluta* \*  
Holmes, Francis O., 1946
  - Nicotiana glauca*  
Holmes, Francis O., 1946
  - Nicotiana glutinosa*  
Anderson, C.W., 1954  
Fulton, Robert W., 1941  
Holmes, Francis O., 1942, 1946
  - Nicotiana langsdorffii*  
Holmes, Francis O., 1946
  - Nicotiana longiflora*  
Holmes, Francis O., 1946
  - Nicotiana nudicaulis*  
Holmes, Francis O., 1946
  - Nicotiana paniculata*  
Holmes, Francis O., 1946
  - Nicotiana plumbaginifolia*  
Holmes, Francis O., 1946
  - Nicotiana repanda*  
Holmes, Francis O., 1946
  - Nicotiana rustica*  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
  - Nicotiana sanderae*  
Holmes, Francis O., 1946
  - Nicotiana solanifolia*  
Holmes, Francis O., 1946
  - Nicotiana* spp.  
Bawden, F.C. and B. Kassanis, 1941
  - Nicotiana sylvestris*  
Holmes, Francis O., 1946
  - Nicotiana tabacum*  
Anderson, C.W., 1954  
Bawden, F.C. and B. Kassanis, 1941  
Bennett, C.W., 1944  
Doncaster, J.P. and B. Kassanis, 1946  
Fulton, Robert W., 1941  
Holmes, Francis O., 1941, 1942, 1946  
Johnson, E.M., 1930  
Price, W.C., 1936  
Stover, R.H., 1951  
Valleau, W.D., 1935
  - Nicotiana tomentosa*  
Holmes, Francis O., 1946
  - Nicotiana trigonophylla*  
Holmes, Francis O., 1946
  - Nicotiana undulata*  
Holmes, Francis O., 1946
  - Nierembergia hippomanica*  
Holmes, Francis O., 1946
  - Nolana lanceolata*  
Holmes, Francis O., 1946
  - Penstemon grandiflorus*  
Holmes, Francis O., 1946
  - Petunia hybrida*  
Holmes, Francis O., 1946
  - Petunia violacea*  
Fulton, Robert W., 1941
  - Phacelia campanularia*  
Holmes, Francis O., 1946
  - Phacelia ciliata*  
Holmes, Francis O., 1946
  - Phacelia viscida*  
Holmes, Francis O., 1946
  - Phacelia whitlavia* (*Whitlavia grandiflora*)  
Holmes, Francis O., 1946

## VIRUS

## V. TOBACCO ETCH (cont.)

- Physalis alkekengi*  
Holmes, Francis O., 1946
- Physalis angulata*  
Holmes, Francis O., 1946
- Physalis floridana*  
Greenleaf, W.H., 1953
- Physalis heterophylla* var. *nyctaginea*  
Johnson, E.M., 1930
- Physalis ixocarpa*  
Greenleaf, W.H., 1953
- Physalis peruviana*  
Anderson, C.W., 1954  
Costa, A.S., 1944  
Holmes, Francis O., 1941, 1942, 1946
- Physalis pruinosa*  
Anderson, C.W., 1954
- Physalis pubescens*  
Johnson, E.M., 1930
- Physalis subglabrata*  
Holmes, Francis O., 1943, 1946
- Portulaca oleracea*  
Holmes, Francis O., 1946
- Primula malacoides*  
Holmes, Francis O., 1946
- Proboscidea louisiana*  
Holmes, Francis O., 1946
- Salpiglossis sinuata*  
Holmes, Francis O., 1946
- Schizanthus pinnatus*  
Holmes, Francis O., 1946
- Silene anglica*  
Holmes, Francis O., 1946
- Solanum capsicastrum*  
Holmes, Francis O., 1946
- Solanum carolinense*  
Greenleaf, W.H., 1953  
Johnson, E.M., 1930
- Solanum integrifolium*  
Greenleaf, W.H., 1953  
Holmes, Francis O., 1946
- Solanum melongena*  
Holmes, Francis O., 1946
- Solanum nigrum*  
Anderson, C.W. and M.K. Corbett, 1957  
Fulton, Robert W., 1941  
Holmes, Francis O., 1946
- Solanum pseudocapsicum*  
Greenleaf, W.H., 1953
- Solanum tuberosum*  
Holmes, Francis O., 1946
- Tetragonia expansa*  
Holmes, Francis O., 1946
- Torenia fournieri*  
Holmes, Francis O., 1946
- Verbena hybrida*  
Holmes, Francis O., 1946
- Zaluzianskya villosa*  
Holmes, Francis O., 1946
- Zinnia elegans*  
Holmes, Francis O., 1946  
Price, W.C., 1935
- V. TOBACCO GREEN MOSAIC McKinney 1929 ((A synonym of V. Tobacco mosaic K.M. Smith 1957.))
- Capsicum frutescens* (*Capsicum annum*)  
Peterson, Paul D. and H.H. McKinney, 1938
- Lycopersicon esculentum*  
McKinney, H.H., 1929
- Nicotiana glauca*  
McKinney, H.H., 1929
- Nicotiana langsdorffii*  
Peterson, Paul D. and H.H. McKinney, 1938
- Nicotiana rustica*  
Peterson, Paul D. and H.H. McKinney, 1938
- Nicotiana sylvestris*  
Peterson, Paul D. and H.H. McKinney, 1938
- Nicotiana tabacum*  
Dufrenoy, J., 1933  
Peterson, Paul D. and H.H. McKinney, 1938

## VIRUS

## V. TOBACCO GREEN RING SPOT \*

- Nicotiana sylvestris*  
Price, W.C., 1936
- Nicotiana tabacum*  
Price, W.C., 1936  
Valleau, W.D., 1935
- Vigna sinensis*  
Price, W.C., 1936
- V. TOBACCO LEAF CURL Storey 1932
- Ageratum conyzoides*  
Pruthi, Hem Singh and C.K. Samuel, 1939
- Althaea rosea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Carica papaya*  
Goenaga, Alvaro, 1945  
Nariani, T.K., 1956
- Crotalaria juncea*  
Pruthi, Hem Singh and C.K. Samuel, 1937, 1939
- Crotalaria usaramoensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura stramonium*  
Vasudeva, R.S. and J. Sam Raj, 1948
- Euphorbia hirta*  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Glycine max*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Launea asplenifolia*  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Lycopersicon esculentum*  
Bird, Julio, 1957  
Nariani, T.K., 1956  
Pal, B.P. and R.K. Tandon, 1937  
Pruthi, Hem Singh and C.K. Samuel, 1941  
Vasudeva, R.S. and J. Sam Raj, 1948
- Nicotiana glauca*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
Pal, B.P. and R.K. Tandon, 1937  
Vasudeva, R.S. and J. Sam Raj, 1948
- Nicotiana rustica*  
Pal, B.P. and R.K. Tandon, 1937
- Nicotiana sylvestris*  
Vasudeva, R.S. and J. Sam Raj, 1948
- Nicotiana tabacum*  
Bird, Julio, 1957  
Kerling, L.C.P., 1933  
Nariani, T.K., 1956  
Nariani, T.K. and P.S. Pathanian, 1953  
Pal, B.P. and R.K. Tandon, 1937  
Pruthi, Hem Singh and C.K. Samuel, 1937, 1939, 1941  
Vasudeva, R.S. and J. Sam Raj, 1948
- Petunia* spp.  
Pal, B.P. and R.K. Tandon, 1937
- Physalis angulata*  
Bird, Julio, 1957
- Physalis peruviana*  
Nariani, T.K. and P.S. Pathanian, 1953
- Scoparia dulcis*  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Sida rhombifolia*  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Solanum caribaeum*  
Bird, Julio, 1957
- Solanum nigrum*  
Pal, B.P. and R.K. Tandon, 1937  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Solanum tuberosum*  
Vasudeva, R.S. and J. Sam Raj, 1948
- Synedrella nodiflora*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Vernonia cinerea*  
Pruthi, Hem Singh and C.K. Samuel, 1941
- Zinnia elegans*  
Kerling, L.C.P., 1933  
Pruthi, Hem Singh and C.K. Samuel, 1941
- V. TOBACCO LEAF CURL-LIKE DISEASE \*
- Nicotiana tabacum*  
Morgan, O.D. and H.H. McKinney, 1951



## VIRUS

## V. TOBACCO LEAF ROLL DISEASE \*

- Lycopersicon esculentum*  
Goenaga, Alvaro, 1945
- Nicotiana tabacum*  
Goenaga, Alvaro, 1945
- Solanum tuberosum*  
Goenaga, Alvaro, 1945

## V. TOBACCO MOSAIC Allard 1914

- Adlumia fungosa*  
Holmes, Francis O., 1946
- Amaranthus graecizans*  
Holmes, Francis O., 1938
- Amaranthus hybridus*  
Holmes, Francis O., 1938
- Amaranthus tricolor*  
Holmes, Francis O., 1946
- Ambrosia artemisiifolia*  
Boyle, John S. and David C. Wharton, 1957  
Holmes, Francis O., 1938  
Wingard, S.A., 1928
- Ambrosia trifida*  
Holmes, Francis O., 1938, 1946
- Anagallis arvensis*  
Holmes, Francis O., 1946
- Anchusa azurea*  
Holmes, Francis O., 1946
- Anchusa capensis*  
Holmes, Francis O., 1946
- Antirrhinum majus*  
Berkeley, G.H., 1951  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Apium graveolens*  
Holmes, Francis O., 1946
- Arctium lappa*  
Holmes, Francis O., 1946
- Aster dumosus*  
Holmes, Francis O., 1938
- Bellis perennis*  
Holmes, Francis O., 1946
- Beta vulgaris*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Beta vulgaris* var. *cicla*  
Grant, T.J., 1934
- Bidens frondosa*  
Holmes, Francis O., 1938, 1946
- Brachycome iberidifolia*  
Holmes, Francis O., 1946
- Brassica campestris* var. *napobrassica*  
Holmes, Francis O., 1946
- Brassica hirta* (*Brassica alba*)  
Grant, T.J., 1934
- Brassica rapa*  
Grant, T.J., 1934
- Browallia americana* (*Browallia demissa*)  
Holmes, Francis O., 1946
- Browallia speciosa*  
Holmes, Francis O., 1946
- Browallia speciosa* var. *major*  
Holmes, Francis O., 1938
- Calendula officinalis*  
Holmes, Francis O., 1946
- Callistephus shinensis*  
Holmes, Francis O., 1946
- Calonyction aculeatum*  
Holmes, Francis O., 1946
- Campanula drabifolia*  
Holmes, Francis O., 1946
- Capsella bursa-pastoris*  
Holmes, Francis O., 1938, 1946
- Capsicum cerasiforme*  
Allard, H.A., 1916
- Capsicum frutescens* (*Capsicum annum*)  
Abbott, E.V., 1931  
Ainsworth, G.C., 1933  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951  
Cox, C.E. and L.O. Weaver, 1950  
Dale, W.T., 1954  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Capsicum frutescens* (*Capsicum annum*)  
Doolittle, S.P. and F.S. Beecher, 1942  
Dykstra, T.P., 1939  
Greenleaf, W.H., 1953  
Heuberger, J.W., 1944  
Hoggan, Isme A., 1927  
Holmes, F.O., 1934, 1937, 1946  
Jensen, D.D., 1949  
Johnson, J., 1926, 1927  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
McKinney, H.H., 1929, 1952  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
Schwarze, C.A., 1914  
Stover, W.G. and M.T. Vermillion, 1933  
Woods, M.W. and Richard V. Eck, 1948
- Capsicum frutescens* var. *Golden Dawn* x (*var. Golden Dawn* x *var. minimum*)  
Holmes, F.O., 1934
- Capsicum frutescens* var. *Golden Dawn* x *var. minimum*  
Holmes, F.O., 1934
- Capsicum frutescens* var. *Tabasco* x *var. Ruby King*  
Holmes, F.O., 1934
- Capsicum microcarpum*  
Greenleaf, W.H., 1953
- Capsicum* spp.  
McKinney, H.H., 1928
- Carica papaya*  
Holmes, Francis O., 1946
- Cattleya* spp.  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956
- Celosia argentea*  
Holmes, Francis O., 1946
- Centaurea americana*  
Holmes, Francis O., 1946
- Centaurea montana*  
Holmes, Francis O., 1946
- Cerastium vulgatum*  
Holmes, Francis O., 1938
- Charieis heterophylla*  
Holmes, Francis O., 1946
- Cheiranthus allionii*  
Holmes, Francis O., 1946
- Cheiranthus cheiri*  
Holmes, Francis O., 1946
- Chelidonium majus*  
Holmes, Francis O., 1938, 1946
- Chenopodium album*  
Holmes, Francis O., 1938, 1946
- Chenopodium amaranticolor*  
Hollings, M., 1956
- Chenopodium ambrosioides*  
Holmes, Francis O., 1938, 1946
- Chenopodium glaucum*  
Holmes, Francis O., 1946
- Chenopodium hybridum*  
Benedict, W.G., 1955
- Chenopodium rubrum*  
Holmes, Francis O., 1946
- Chenopodium* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cichorium endivia*  
Holmes, Francis O., 1946
- Cirsium arvense*  
Boyle, John S. and David C. Wharton, 1956
- Citrullus vulgaris*  
McKinney, H.H. and Robert W. Fulton, 1949
- Cleome spinosa*  
Holmes, Francis O., 1946
- Coleus blumei*  
Holmes, Francis O., 1946
- Collinsia bicolor*  
Holmes, Francis O., 1946
- Coreopsis grandiflora*  
Holmes, Francis O., 1946
- Cucumis melo*  
McKinney, H.H. and Robert W. Fulton, 1949
- Cucumis sativus*  
Berkeley, G.H., 1951  
Cox, C.E. and L.O. Weaver, 1950

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Cucumis sativus*  
Fulton, Robert W., 1950  
McKinney, H.H., 1952  
McKinney, H.H. and Robert W. Fulton, 1949  
Walker, M.N., 1924, 1926
- Cucurbita pepo*  
McKinney, H.H. and Robert W. Fulton, 1949
- Cymbalaria muralis*  
Holmes, Francis O., 1946
- Cynoglossum amabile*  
Fulton, Robert W., 1941  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Datura metel*  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956
- Datura meteloides*  
Keener, Paul D., 1954
- Datura stramonium*  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Allard, H.A., 1916  
Anderson, C.W. and M.K. Corbett, 1957  
Berkeley, G.H., 1951  
Caldwell, John, 1932  
Crawford, R.F., 1921  
Das, C.R. and S.P. Raychaudhuri, 1953  
Doolittle, S.P. and F.S. Beecher, 1942  
Holmes, F.O., 1934, 1946  
Jarrett, Phyllis H., 1930  
Johnson, E.M., 1930  
McKinney, H.H., 1952  
McKinney, H.H. and Robert W. Fulton, 1949  
Samson, R.W., 1930
- Daucus carota*  
Holmes, Francis O., 1938, 1946
- Daucus carota var. sativa*  
Grant, T.J., 1934
- Delphinium consolida*  
Grant, T.J., 1934
- Delphinium hybrid*  
Severin, Henry H.P., 1942
- Digitalis purpurea*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Dimorphotheca aurantiaca*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Echium vulgare*  
Holmes, Francis O., 1946
- Emilia flammea*  
Holmes, Francis O., 1946
- Emilia sagittata*  
Grant, T.J., 1934
- Emmenanthe penduliflora*  
Holmes, Francis O., 1946
- Erigeron annuus*  
Holmes, Francis O., 1938, 1946
- Erigeron canadensis*  
Holmes, Francis O., 1938
- Eryngium aquaticum*  
Johnson, James, 1946
- Eupatorium lasseauxii*  
Holmes, Francis O., 1946
- Fagopyrum esculentum*  
Fulton, Robert W., 1941  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Galinsoga parviflora*  
Holmes, Francis O., 1938, 1946
- Galium triflorum*  
Holmes, Francis O., 1938
- Gamolepis tagetes*  
Holmes, Francis O., 1946
- Geranium carolinianum*  
Holmes, Francis O., 1938, 1946
- Gesneria spp.*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Gilia capitata*  
Holmes, Francis O., 1946

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Gilia liniflora*  
Holmes, Francis O., 1946
- Gladiolus hortulanus*  
Berkeley, G.H., 1951
- Gomphrena globosa*  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954
- Gypsophila elegans*  
Holmes, Francis O., 1946
- Hedeoma pulegioides*  
Holmes, Francis O., 1938
- Helichrysum bracteatum*  
Holmes, Francis O., 1946
- Heliotropium corymbosum*  
Holmes, Francis O., 1946
- Helipterum humboldtianum*  
Holmes, Francis O., 1946
- Hieracium scabrum*  
Holmes, Francis O., 1938
- Hyoscyamus niger*  
Allard, H.A., 1916  
Hoggan, Isme A., 1927  
Jarrett, Phyllis H., 1930  
Johnson, James, 1927  
Sheffield, F.M.L., 1931, 1936
- Iberis gibraltaria*  
Holmes, Francis O., 1946
- Iberis umbellata*  
Holmes, Francis O., 1946
- Impatiens sultani* (or sometimes *Impatiens holstii*)  
Holmes, Francis O., 1946
- Incarvillea variabilis*  
Holmes, Francis O., 1946
- Ipomoea nil*  
Holmes, Francis O., 1946
- Ipomoea tricolor*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Kalanchoe daigremontiana*  
Holmes, Francis O., 1946
- Kochia scoparia*  
Holmes, Francis O., 1946
- Lamium amplexicaule*  
Holmes, Francis O., 1938, 1946
- Lepidium campestre*  
Holmes, Francis O., 1938
- Lepidium ruderales*  
Holmes, Francis O., 1938
- Leptosyne maritima*  
Holmes, Francis O., 1946
- Limonium bonduelli*  
Holmes, Francis O., 1946
- Limonium sinuatum*  
Holmes, Francis O., 1946
- Linaria cymbalaria*  
Grant, T.J., 1934
- Linaria maroccana*  
Holmes, Francis O., 1946
- Linaria vulgaris*  
Holmes, Francis O., 1938, 1946
- Lobelia erinus*  
Holmes, Francis O., 1946
- Lobelia gracilis*  
Holmes, Francis O., 1946
- Lobelia inflata*  
Holmes, Francis O., 1938, 1946
- Lobelia tenuior*  
Holmes, Francis O., 1946
- Lobularia maritima*  
Holmes, Francis O., 1946
- Lunaria annua*  
Holmes, Francis O., 1946
- Lychnis coeli-rosa*  
Holmes, Francis O., 1946
- Lycium chinense*  
Holmes, Francis O., 1946
- Lycium ferocissimum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycopersicon chilense*  
Holmes, Francis O., 1943, 1946
- Lycopersicon esculentum*  
Abbott, E.V., 1929, 1931

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Lycopersicon esculentum*  
 Ainsworth, G.C., 1933, 1937  
 Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
 Ainsworth, G.C. and I.W. Selman, 1936  
 Allard, H.A., 1916  
 Berkeley, G.H., 1927, 1951  
 Berkeley, G.H. and G.O. Madden, 1932, 1933  
 Boyle, John S., 1956  
 Boyle, John S. and David C. Wharton, 1956, 1957  
 Brierley, W.B., 1916  
 Burnett, Grover and Leon K. Jones, 1931  
 Caldwell, John, 1932  
 Cochran, G.W., 1946  
 Conover, Robert A. and Robert W. Fulton, 1953  
 Costa, A.S., 1944  
 Cox, C.E. and L.O. Weaver, 1950  
 Dale, W.T., 1954  
 Das, C.R. and S.P. Raychaudhuri, 1953  
 Desai, S.V., 1933  
 Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
 Doering, G.R., W.C. Price and S.B. Fenne, 1957  
 Doolittle, S.P., 1928  
 Doolittle, S.P. and L.J. Alexander, 1936, 1951  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Doolittle, S.P. and W.S. Porte, 1949  
 Eckerson, Sophia H. and H.R. Karybill, 1927  
 Fernow, Karl Hermann, 1925  
 Fulton, Robert W., 1941  
 Gardner, Max W., 1925  
 Gardner, Max W. and James B. Kendrick, 1922  
 Heuberger, J.W. and J.B.S. Norton, 1933  
 Hoggan, Isme A., 1927  
 Holmes, Francis O., 1941, 1943, 1946, 1950  
 Jarrett, Phyllis H., 1930  
 Jensen, J.H., 1933, 1936  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Jones, Leon K., 1940  
 Jones, Leon K. and Grover Burnett, 1935  
 Kunkel, L.O., 1932  
 MacNeill, Blair H., 1955  
 McKinney, H.H., 1929, 1952  
 McRitchie, John J., 1957  
 McRitchie, John J. and Leonard J. Alexander, 1957  
 Mogendorff, N., 1930  
 Norval, I.P., 1938  
 Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Price, W.C. and S.B. Fenne, 1951  
 Quanjer, H.M., 1920  
 Raychaudhuri, S.P., 1952  
 Schultz, E.S. and Donald Folsom, 1923  
 Selman, Ireson W., 1941, 1943  
 Severin, Henry H.P., 1950  
 Sheffield, F.M.L., 1931, 1936  
 Smith, J. Henderson, 1928, 1933  
 Smith, Kenneth M., 1935  
 Stover, W.G., 1928  
 Stover, W.G. and M.T. Vermillion, 1933  
 Valteau, W.D. and E.M. Johnson, 1930, 1943  
 Vanterpool, T.C., 1926  
 Verwoerd, Len, 1929  
 Walker, M.N., 1926  
 Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954  
 Woods, M.W. and Richard V. Eck, 1948
- Lycopersicon esculentum* var. *cerasiforme*  
 Gardner, Max W. and James B. Kendrick, 1922
- Lycopersicon esculentum* var. *grandifolium*  
 Mogendorff, N., 1930
- Lycopersicon esculentum* var. *Sioux* x *Lycopersicon hirsutum*  
 Watson, R.D. and E.C. Heinrich, 1951
- Lycopersicon esculentum* x *Lycopersicon chilense*  
 Holmes, Francis O., 1943
- Lycopersicon esculentum* x *Lycopersicon hirsutum*  
 Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Lycopersicon glandulosum*  
 Doolittle, S.P. and F.S. Beecher, 1942
- Lycopersicon hirsutum*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Doolittle, S.P., W.S. Porte and F.S. Beecher, 1946  
 Holmes, Francis O., 1946  
 Porte, W.S., S.P. Doolittle and F.L. Wellman, 1939  
 Watson, R.D., E.C. Heinrich and W.R. Harvey, 1954
- Lycopersicon hirsutum* f. *glabratum* \*  
 Doolittle, S.P. and F.S. Beecher, 1942
- Lycopersicon hirsutum* x *Lycopersicon esculentum*  
 Doolittle, S.P. and W.S. Porte, 1949
- Lycopersicon peruvianum*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, Francis O., 1946  
 Nagaich, B.B. and H.H. Thornberry, 1957
- Lycopersicon peruvianum* subsp. *dentatum*  
 Doolittle, S.P. and F.S. Beecher, 1942
- Lycopersicon pimpinellifolium*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Gardner, Max W. and James B. Kendrick, 1922  
 Holmes, Francis O., 1946
- Lycopus rubellus*  
 Holmes, Francis O., 1938, 1946
- Lycopus virginicus*  
 Holmes, Francis O., 1938
- Marrubium vulgare*  
 Holmes, Francis O., 1946
- Martynia louisiana*  
 Fernow, Karl Hermann, 1925  
 Grant, T.J., 1934
- Matthiola bicornis*  
 Holmes, Francis O., 1946
- Melissa officinalis*  
 Holmes, Francis O., 1946
- Mentha spicata*  
 Holmes, Francis O., 1946
- Mesembryanthemum crystallinum*  
 Holmes, Francis O., 1946
- Mesembryanthemum lineare*  
 Holmes, Francis O., 1946
- Mimulus moschatus*  
 Holmes, Francis O., 1946
- Mimulus tigrinus*  
 Holmes, Francis O., 1946
- Mollugo verticillata*  
 Holmes, Francis O., 1938, 1946
- Myosotis scorpioides*  
 Holmes, Francis O., 1946
- Myosotis sylvatica*  
 Holmes, Francis O., 1946
- Nemesia strumosa*  
 Holmes, Francis O., 1946
- Nemophila maculata*  
 Holmes, Francis O., 1946
- Nemophila menziesii* subsp. *insignis*  
 Holmes, Francis O., 1946
- Nepeta cataria*  
 Holmes, Francis O., 1946
- Nepeta mussini*  
 Holmes, Francis O., 1946
- Nicandra physalodes*  
 Crawford, R.F., 1921  
 Fulton, Robert W., 1941  
 Hoggan, Isme A., 1927  
 Holmes, Francis O., 1946  
 Jarrett, Phyllis H., 1930  
 Johnson, E.M., 1930
- Nicotiana acuminata*  
 Adsuar, J. and L. Lopez Matos, 1955  
 Caldwell, John, 1932  
 Diachun, Stephen and W.D. Valteau, 1954  
 Holmes, Francis O., 1929, 1934, 1946  
 Jensen, J.H., 1933  
 Kunkel, L.O., 1932
- Nicotiana affinis*  
 Jarrett, Phyllis H., 1930  
 McKinney, H.H., 1935

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Nicotiana alata*  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, F.O., 1934, 1946  
Kunkel, L.O., 1932  
Weber, Paul V.V., 1951
- Nicotiana arentsii*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana attenuata*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana benavidesii*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana benthamiana*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana bigelovii*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, F.O., 1934, 1946  
Stover, R.H., 1951
- Nicotiana bigelovii* var. *quadrivalvis* x *glutinosa*  
Holmes, F.O., 1934
- Nicotiana bigelovii* var. *quadrivalvis* x *sanderacae*  
Holmes, F.O., 1934
- Nicotiana bigelovii* var. *quadrivalvis* x *tabacum*  
Holmes, F.O., 1934
- Nicotiana bonariensis*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, Francis O., 1946
- Nicotiana caudigera*  
Holmes, Francis O., 1946
- Nicotiana caudigera* x *Nicotiana acuminata*  
Holmes, F.O., 1934
- Nicotiana chinensis*  
Ferguson, I.A.C., 1951
- Nicotiana clevelandii*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, F.O., 1934, 1946
- Nicotiana cordifolia*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana corymbosa*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana debneyi*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana digluta* \*  
Holmes, Francis O., 1938, 1946
- Nicotiana digluta* x *Nicotiana tabacum*  
Holmes, Francis O., 1938  
Price, W.C. and S.B. Fenne, 1951
- Nicotiana exigua*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana fragrans*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana glauca*  
Allard, H.A., 1917  
Diachun, Stephen and W.D. Valteau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Hoggan, Isme A., 1927  
Holmes, F.O., 1934, 1946  
Jensen, J.H., 1933  
Johnson, J., 1926, 1927  
Keener, Paul D., 1954  
McKinney, H.H., 1928, 1929, 1935, 1943, 1952
- Nicotiana glauca* x *Nicotiana langsdorffii*  
Holmes, F.O., 1934
- Nicotiana glutinosa*  
Adsuar, J. and L. Lopez Matos, 1955  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Anderson, C.W. and M.K. Corbett, 1957  
Bawden, F.C. and F.M. Roberts, 1948  
Berkeley, G.H., 1951  
Best, Rupert J. and Geoffrey Samuel, 1936  
Boyle, John S. and David C. Wharton, 1956, 1957  
Caldwell, John, 1932  
Conover, Robert A. and Robert W. Fulton, 1953  
Costa, A.S., 1944  
Cox, C.E. and L.O. Weaver, 1950

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Nicotiana glutinosa*  
Desjardins, P.R., J.M. Wallace and R.J. Drake, 1954  
Diachun, Stephen and W.D. Valteau, 1954  
Doering, G.R., W.C. Price and S.B. Fenne, 1957  
Doolittle, S.P. and F.S. Beecher, 1942  
Dykstra, T.P., 1939  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1929, 1934, 1936, 1941, 1946  
Jensen, J.H., 1933, 1936, 1937  
Johnson, J., 1926, 1927  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
Kunkel, L.O., 1932  
McKinney, H.H., 1935, 1943, 1952  
Nagaich, B.B. and H.H. Thornberry, 1957  
Nolla, J.A.B., 1934  
Norval, I.P., 1938  
Peterson, Paul D. and H.H. McKinney, 1938  
Pierce, W.H., 1934  
Price, W.C. and S.B. Fenne, 1951  
Raychaudhuri, S.P., 1952  
Roberts, Daniel A., 1952  
Sheffield, F.M.L., 1936  
Siegel, Albert and Sam G. Wildman, 1954  
Smith, Kenneth M., 1935  
Spencer, E.L., 1935  
Stover, R.H., 1951  
Walker, M.N., 1924, 1925  
Walters, H.J., 1952  
Weber, Paul V.V., 1951  
Woods, M.W. and Richard V. Eck, 1948
- Nicotiana glutinosa* x *Nicotiana langsdorffii*  
Holmes, F.O., 1934
- Nicotiana glutinosa* x *Nicotiana tabacum*  
Fulton, Robert W., 1941
- Nicotiana goodspeedii*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana gossei*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana knightiana*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana langsdorffii*  
Ainsworth, G.C., 1937  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, F.O., 1929, 1934, 1936, 1946  
Jensen, J.H., 1933, 1936  
Kunkel, L.O., 1932, 1934  
Peterson, Paul D. and H.H. McKinney, 1938  
Stover, R.H., 1951
- Nicotiana langsdorffii* x *Nicotiana sanderacae*  
Holmes, F.O., 1934
- Nicotiana longiflora*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, F.O., 1934, 1946  
Stover, R.H., 1951  
Weber, Paul V.V., 1951
- Nicotiana longiflora* x *Nicotiana alata*  
Weber, Paul V.V., 1951
- Nicotiana maritima*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana megalosiphon*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana multivalis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana nesophila*  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana nudicaulis*  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, Francis O., 1946
- Nicotiana occidentalis*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954
- Nicotiana otophora*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valteau, 1954  
Holmes, Francis O., 1946

- VIRUS  
V. TOBACCO MOSAIC (cont.)
- Nicotiana palmeri*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valleau, 1954  
Holmes, F.O., 1934, 1946
- Nicotiana paniculata*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valleau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Holmes, F.O., 1934, 1946  
Jensen, J.H., 1933  
Kunkel, L.O., 1932  
Woods, M.W. and Richard V. Eck, 1948
- Nicotiana paniculata* x *Nicotiana rustica*  
Holmes, F.O., 1934
- Nicotiana pauciflora*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana plumbaginifolia*  
Boyle, John S. and David C. Wharton, 1956, 1957  
Diachun, Stephen and W.D. Valleau, 1954  
Holmes, Francis O., 1946
- Nicotiana quadrivalvis*  
Doolittle, S.P. and F.S. Beecher, 1942
- Nicotiana raimondii*  
Diachun, Stephen and W.D. Valleau, 1954  
Holmes, Francis O., 1946
- Nicotiana repanda*  
Adsuar, J. and L. Lopez Matos, 1955  
Diachun, Stephen and W.D. Valleau, 1954  
Holmes, Francis O., 1946
- Nicotiana rotundifolia*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana rusbyi*  
Kunkel, L.O., 1932
- Nicotiana rustica*  
Allard, H.A., 1914-15, 1916  
Boyle, John S. and David C. Wharton, 1956, 1957  
Caldwell, John, 1932  
Das, C.R. and S.P. Raychaudhuri, 1953  
Diachun, Stephen and W.D. Valleau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Fernow, Karl Hermann, 1925  
Holmes, Francis O., 1929, 1934, 1946  
Jensen, J.H., 1933  
Johnson, E.M., 1930  
Johnson, J., 1926, 1927  
Kunkel, L.O., 1932  
McKinney, H.H., 1935  
Peterson, Paul D. and H.H. McKinney, 1938  
Stover, R.H., 1951
- Nicotiana sanderae*  
Holmes, Francis O., 1929, 1934, 1946  
Stover, R.H., 1951
- Nicotiana sanderae* x *Nicotiana langsdorffii*  
Holmes, F.O., 1934
- Nicotiana sanderae* x *Nicotiana sanderae*  
Holmes, F.O., 1934
- Nicotiana setchellii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana solanifolia*  
Holmes, Francis O., 1946
- Nicotiana stocktoni*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana suaveolens*  
Diachun, Stephen and W.D. Valleau, 1954  
Holmes, F.O., 1934  
Kunkel, L.O., 1932
- Nicotiana sylvestris*  
Boyle, John S. and David C. Wharton, 1956, 1957  
Conover, Robert A. and Robert W. Fulton, 1953  
Diachun, Stephen and W.D. Valleau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Dykstra, T.P., 1939  
Fulton, Robert W., 1951  
Holmes, F.O., 1934, 1941, 1946  
Jensen, J.H., 1933, 1936, 1937  
Kunkel, L.O., 1932, 1934  
McKinney, H.H., 1935, 1952  
Norval, I.P., 1938  
Peterson, Paul D. and H.H. McKinney, 1938  
Price, W.C. and S.B. Fenne, 1951  
Raychaudhuri, S.P., 1952  
Siegel, Albert and Sam G. Wildman, 1954
- VIRUS  
V. TOBACCO MOSAIC (cont.)
- Nicotiana sylvestris*  
Stover, R.H., 1951  
Weber, Paul V.V., 1951
- Nicotiana tabacum*  
Ainsworth, G.C., 1933, 1937  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Allard, H.A., 1914-15, 1915, 1916, 1917  
Bawden, F.C. and F.M. Roberts, 1948  
Beale, Helen P., 1933  
Bennett, C.W., 1944  
Berkeley, G.H., 1927, 1951  
Best, Rupert J. and Geoffrey Samuel, 1936  
Boyle, John S. and David C. Wharton, 1956, 1957  
Caldwell, John, 1932  
Conover, Robert A. and Robert W. Fulton, 1953  
Costa, A.S., 1944  
Cox, C.E. and L.O. Weaver, 1950  
Dale, W.T., 1954  
Das, C.R. and S.P. Raychaudhuri, 1953  
Diachun, Stephen and W.D. Valleau, 1954  
Doolittle, S.P. and F.S. Beecher, 1942  
Dufrenoy, J., 1933  
Fernow, Karl Hermann, 1925  
Fulton, Robert W., 1941  
Gutierrez, Mariano E., 1954  
Gutierrez, Mariano E., Julian Agati and Serapion Baybay, 1950  
Henderson, R.G., 1950  
Hoggan, Isme A., 1927, 1934  
Holmes, F.O., 1934, 1936, 1941, 1946, 1953  
Jarrett, Phyllis H., 1930  
Jensen, J.H., 1933, 1936, 1937  
Johnson, E.M., 1930  
Johnson, Folke, 1941  
Johnson, J., 1926, 1927  
Jones, Leon K., 1940  
Kassanis, B. and Ireson W. Selman, 1947  
Kunkel, L.O., 1932  
McKinney, H.H., 1935, 1939, 1943, 1952  
McMurtrey, J.E., Jr., 1928, 1929  
Nagaich, B.B. and H.H. Thornberry, 1957  
Nolla, J.A.B., 1934  
Nolla, J.A.B., John Simon Guggenheim and Arturo Roque, 1933  
Norval, I.P., 1938  
Perez, J. Enrique, J. Adsuar and Orlando Sala, 1956  
Peterson, Paul D. and H.H. McKinney, 1938  
Pierce, W.H., 1934  
Price, W.C., 1936  
Price, W.C. and S.B. Fenne, 1951  
Purdy, Helen A., 1927  
Quanjer, H.M., 1920, 1933  
Raychaudhuri, S.P., 1952  
Roberts, Daniel A., 1952  
Schwarze, C.A., 1914  
Sheffield, F.M.L., 1931, 1936  
Siegel, Albert and Sam G. Wildman, 1954  
Smith, J. Henderson, 1933  
Smith, Kenneth M., 1935  
Spencer, E.L., 1935, 1937  
Stover, R.H., 1951  
Stover, W.G., 1928  
Stover, W.G. and M.T. Vermillion, 1933  
Valleau, W.D., 1935  
Valleau, W.D. and E.M. Johnson, 1935, 1943  
Vanterpool, T.C., 1926  
Walker, M.N., 1926  
Walters, H.J., 1952  
Weber, Paul V.V., 1951  
Woods, M.W. and Richard V. Eck, 1948
- Nicotiana tabacum* var. *angustifolia*  
Adsuar, J. and L. Lopez Matos, 1955
- Nicotiana tabacum* var. *atropurpurea* \*  
Weber, Paul V.V., 1951
- Nicotiana tabacum* var. *macrophylla*  
Ainsworth, G.C., 1933  
Kunkel, L.O., 1932
- Nicotiana tabacum* var. *purpurea* \*  
Kunkel, L.O., 1932

## VIRUS

- V. TOBACCO MOSAIC (cont.)  
*Nicotiana tabacum* var. *purpurea* \* x *glutinosa*  
 Holmes, F. O., 1934  
*Nicotiana tabacum* x *Nicotiana glutinosa*  
 Costa, A. S., 1944  
 Fulton, Robert W., 1950  
 Holmes, F. O., 1934  
 Johnson, James, 1936, 1937  
 McKinney, H.H. and Robert W. Fulton, 1949  
 Walters, H. J., 1952  
*Nicotiana tabacum* x *Nicotiana longiflora*  
 Weber, Paul V. V., 1951  
*Nicotiana tabacum* x *Nicotiana sylvestris*  
 Weber, Paul V. V., 1951  
*Nicotiana tomentosa*  
 Diachun, Stephen and W. D. Valleau, 1954  
 Holmes, Francis O., 1946  
 Weber, Paul V. V., 1951  
*Nicotiana tomentosiformis*  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W. D. Valleau, 1954  
 Holmes, Francis O., 1946  
 Weber, Paul V. V., 1951  
*Nicotiana trigonophylla*  
 Diachun, Stephen and W. D. Valleau, 1954  
 Holmes, F. O., 1934, 1946  
*Nicotiana undulata*  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W. D. Valleau, 1954  
 Holmes, Francis O., 1946  
*Nicotiana velutina*  
 Adsuar, J. and L. Lopez Matos, 1955  
 Diachun, Stephen and W. D. Valleau, 1954  
*Nicotiana wigandioides*  
 Holmes, Francis O., 1946  
*Nierembergia hippomanica*  
 Holmes, Francis O., 1946  
*Nolana lanceolata*  
 Holmes, Francis O., 1946  
*Papaver nudicaule*  
 Holmes, Francis O., 1946  
*Parthenium argentatum*  
 Severin, Henry H. P., 1945  
*Penstemon barbatus*  
 Grant, T. J., 1934  
*Penstemon grandiflorus*  
 Holmes, Francis O., 1946  
*Petroselinum hortense*  
 Holmes, Francis O., 1946  
*Petunia hybrida*  
 Allard, H. A., 1916  
 Holmes, Francis O., 1946  
*Petunia* spp.  
 Ainsworth, G. C., 1933  
 Das, C.R. and S.P. Raychaudhuri, 1953  
*Petunia violacea*  
 Fulton, Robert W., 1941  
 Hoggan, Isme A., 1927  
 Jarrett, Phyllis H., 1930  
 Johnson, J., 1926, 1927  
*Phacelia campanularia*  
 Grant, T. J., 1934  
 Holmes, Francis O., 1946  
*Phacelia ciliata*  
 Holmes, Francis O., 1946  
*Phacelia parryi*  
 Grant, T. J., 1934  
*Phacelia tanacetifolia*  
 Grant, T. J., 1934  
*Phacelia viscida*  
 Holmes, Francis O., 1946  
*Phacelia whitlavia* (*Whitlavia grandiflora*)  
 Grant, T. J., 1934  
 Holmes, Francis O., 1946  
*Phaseolus vulgaris*  
 Berkeley, G.H., 1951  
 Costa, A.S., 1944  
 Doolittle, S.P. and F.S. Beecher, 1942  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Grant, T.J., 1934  
 Holmes, F.O., 1934, 1941, 1946  
 McKinney, H.H., 1943  
 McKinney, H.H. and Robert W. Fulton, 1949

## VIRUS

- V. TOBACCO MOSAIC (cont.)  
*Phaseolus vulgaris*  
 Nagaich, B.B. and H.H. Thornberry, 1957  
 Peterson, Paul D. and H.H. McKinney, 1938  
 Pierce, W.H., 1934  
 Price, W.C., 1930  
 Silberschmidt, K. and M. Kramer, 1941  
 Spencer, E.L., 1935  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Phlox drummondii*  
 Grant, T.J., 1934  
 Holmes, Francis O., 1946  
*Physalis alkekengi*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Hoggan, Isme A., 1927  
 Holmes, Francis O., 1946  
*Physalis angulata*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Holmes, F.O., 1934, 1941, 1946  
 Jensen, J.H., 1933  
*Physalis eliottii*  
 Anderson, C.W. and M.K. Corbett, 1957  
*Physalis floridana*  
 Ross, A. Frank, 1953  
*Physalis franchetti*  
 Hoggan, Isme A., 1927  
*Physalis heterophylla*  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Fernow, Karl Hermann, 1925  
 Gardner, Max W. and James B. Kendrick, 1922  
*Physalis heterophylla* var. *nyctaginea*  
 Johnson, E.M., 1930  
*Physalis longifolia*  
 Crawford, R.F., 1921  
*Physalis peruviana*  
 Holmes, Francis O., 1942, 1946  
*Physalis pubescens*  
 Ainsworth, G.C., 1933  
 Doolittle, S.P. and F.S. Beecher, 1942  
 Hoggan, Isme A., 1927  
 Johnson, E.M., 1930  
 Johnson, J., 1926, 1927  
 Walker, M.N., 1924, 1925, 1926  
*Physalis subglabrata*  
 Fernow, Karl Hermann, 1925  
 Gardner, Max W. and James B. Kendrick, 1922  
 Holmes, Francis O., 1946  
*Physalis virginiana*  
 Gardner, M.W. and J.B. Kendrick, 1922  
*Phytolacca decandra*  
 Holmes, Francis O., 1938, 1946  
*Pisum sativum*  
 Berkeley, G.H., 1951  
*Plantago lanceolata*  
 Boyle, John S. and David C. Wharton, 1957  
 Harrison, B.C., 1955  
 Holmes, Francis O., 1938, 1941, 1946, 1950  
 McKinney, H.H., 1952  
*Plantago major*  
 Boyle, John S. and David C. Wharton, 1956  
 Harrison, B.D., 1955  
 Holmes, Francis O., 1938, 1941, 1946, 1950  
 Valleau, W.D. and E.M. Johnson, 1943  
*Plantago rugelii*  
 Boyle, John S. and David C. Wharton, 1957  
 Holmes, Francis O., 1938, 1946, 1950  
 McKinney, H.H., 1952  
*Polanisia trachysperma*  
 Holmes, Francis O., 1946  
*Polygonum aviculare*  
 Holmes, Francis O., 1938  
*Polygonum convolvulus*  
 Holmes, Francis O., 1938  
*Polygonum erectum*  
 Holmes, Francis O., 1938  
*Polygonum hydroppiper*  
 Holmes, Francis O., 1938, 1946  
*Polygonum persicaria*  
 Holmes, Francis O., 1938  
*Portulaca oleracea*  
 Holmes, Francis O., 1946  
*Primula malacoides*  
 Holmes, Francis O., 1946

## VIRUS

- V. TOBACCO MOSAIC (cont.)
- Primula obconica*  
Holmes, Francis O., 1946  
Severin, Henry H.P. and C.M. Tompkins, 1950
- Proboscidea louisiana*  
Holmes, Francis O., 1946
- Prunella vulgaris*  
Holmes, Francis O., 1938, 1946
- Quamoclit pennata*  
Grant, T.J., 1934
- Radicula palustris*  
Holmes, Francis O., 1938
- Rudbeckia hirta*  
Holmes, Francis O., 1946
- Rumex acetosella*  
Holmes, Francis O., 1938
- Rumex crispus*  
Holmes, Francis O., 1938, 1946
- Rumex obtusifolius*  
Holmes, Francis O., 1946
- Salpiglossis sinuata*  
Holmes, Francis O., 1946
- Salvia azurea*  
Holmes, Francis O., 1946
- Salvia farinacea*  
Holmes, Francis O., 1946
- Salvia patens*  
Holmes, Francis O., 1946
- Salvia splendens*  
Holmes, Francis O., 1946
- Schizanthus pinnatus*  
Holmes, Francis O., 1946
- Scrophularia marilandica*  
Grant, T.J., 1934
- Silene anglica*  
Holmes, Francis O., 1946
- Silene pendula*  
Holmes, Francis O., 1946
- Sinningia speciosa*  
Holmes, Francis O., 1946
- Sisymbrium officinale*  
Holmes, Francis O., 1938
- Sisymbrium thalianum*  
Holmes, Francis O., 1938
- Solanum aculeatissimum*  
Fernow, Karl Hermann, 1925
- Solanum atropurpureum* \*  
Fernow, Karl Hermann, 1925  
Hoggan, Isme A., 1927
- Solanum cabiliense* var. *argenteum* \*  
Hoggan, Isme A., 1927
- Solanum capsicastrum*  
Holmes, Francis O., 1946
- Solanum carolinense*  
Boyle, John S. and David C. Wharton, 1956, 1957  
Fernow, Karl Hermann, 1925  
Gardner, Max W. and James B. Kendrick, 1922  
Johnson, E.M., 1930
- Solanum ciliatum*  
Ainsworth, G.C., 1933
- Solanum dulcamara*  
Crawford, R.F., 1921  
Gardner, Max W. and James B. Kendrick, 1922  
Holmes, Francis O., 1946  
Jarrett, Phyllis H., 1930
- Solanum integrifolium*  
Gardner, Max W. and James B. Kendrick, 1922  
Holmes, Francis O., 1946
- Solanum laciniatum*  
Hoggan, Isme A., 1927
- Solanum marginatum*  
Hoggan, Isme A., 1927
- Solanum melongena*  
Ainsworth, G.C., 1933  
Das, C.R. and S.P. Raychaudhuri, 1953  
Holmes, F.O., 1934, 1946  
Jensen, J.H., 1933  
Johnson, J., 1926
- Solanum melongena* var. *esculentum*  
Johnson, E.M., 1930
- Solanum melongena* var. *Hangchow Long* x var. *Black Beauty*  
Holmes, F.O., 1934

## VIRUS

- V. TOBACCO MOSAIC (cont.)
- Solanum melongena* var. *Peking Green* x var. *Black Beauty*  
Holmes, F.O., 1934
- Solanum miniatum*  
Hoggan, Isme A., 1927
- Solanum nigrum*  
Caldwell, John, 1932  
Crawford, R.F., 1921  
Das, C.R. and S.P. Raychaudhuri, 1953  
Fernow, Karl Hermann, 1925  
Fulton, Robert W., 1941  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1946  
Jarrett, Phyllis H., 1930  
Johnson, J., 1926  
Sheffield, F.M.L., 1931  
Stover, W.G., 1928  
Stover, W.G. and M.T. Vermillion, 1933
- Solanum nigrum* var. *nodiflorum* \*  
Holmes, F.O., 1934
- Solanum nigrum* var. *villosum*  
Jarrett, Phyllis H., 1930
- Solanum nodiflorum*  
Caldwell, John, 1932  
Jarrett, Phyllis H., 1930  
Sheffield, F.M.L., 1931, 1936  
Smith, J. Henderson, 1930
- Solanum pseudocapsicum*  
Greenleaf, W.H., 1953  
Holmes, F.O., 1934
- Solanum pyracanthum*  
Hoggan, Isme A., 1927
- Solanum sanitwongsei*  
Holmes, Francis O., 1946
- Solanum tuberosum*  
Berkeley, G.H., 1927  
Blodgett, F.M., 1927  
Fernow, Karl Hermann, 1925  
Hoggan, Isme A., 1927  
Holmes, Francis O., 1946  
Johnson, James, 1927, 1929  
Jones, Leon K., C.L. Vincent and Earl F. Burk, 1940  
Quanjer, H.M., 1920
- Spinacia oleracea*  
Fulton, Robert W., 1941  
Grant, T.J., 1934  
Holmes, Francis O., 1946  
Jones, L.K., 1934
- Stellaria media*  
Holmes, Francis O., 1938, 1946
- Tagetes erecta*  
Holmes, Francis O., 1946
- Tagetes patula*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Tagetes signata*  
Holmes, Francis O., 1946
- Tetragonia expansa*  
Grant, T.J., 1934  
Holmes, Francis O., 1946
- Torenia fournieri*  
Holmes, Francis O., 1946
- Tropaeolum majus*  
Holmes, Francis O., 1946
- Tulipa* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Verbascum phoeniceum*  
Holmes, Francis O., 1946
- Verbascum thapsus*  
Grant, T.J., 1934
- Verbena canadensis*  
Holmes, Francis O., 1946
- Verbena hybrida*  
Holmes, Francis O., 1946
- Verbena urticifolia*  
Holmes, Francis O., 1938
- Veronica longifolia*  
Holmes, Francis O., 1946
- Veronica officinalis*  
Holmes, Francis O., 1938, 1946

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Veronica peregrina*  
Holmes, Francis O., 1938, 1946
- Vigna sinensis*  
Nagaich, B.B. and H.H. Thornberry, 1957
- Zaluzianskya villosa*  
Holmes, Francis O., 1946
- Zinnia elegans*  
Grant, T.J., 1934  
Holmes, Francis O., 1946  
Price, W.C., 1935
- Zinnia haageana*  
Holmes, Francis O., 1946

## V. TOBACCO MOTTLE Smith 1945

- Datura stramonium*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana tabacum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## V. TOBACCO NECROSIS K.M. Smith and Bald 1935;

- Ageratum* spp. Price 1938  
Price, W.C., 1940
- Amaranthus caudatus*  
Price, W.C., 1940
- Anthriscus cerefolium*  
Price, W.C., 1940
- Antirrhinum majus*  
Price, W.C., 1940
- Arachis hypogaea*  
Fulton, Robert W., 1950
- Avena sativa*  
Fulton, J.P., 1952
- Bignonia capreolata*  
Price, W.C., 1940
- Brassica oleracea* var. *capitata*  
Fulton, Robert W., 1950
- Callistephus chinensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Campanula medium*  
Price, W.C., 1940
- Capsicum frutescens* (*Capsicum annum*)  
Price, W.C., 1940
- Chenopodium amaranticolor*  
Hollings, M., 1957
- Cichorium endivia*  
Price, W.C., 1940
- Citrullus vulgaris*  
Fulton, Robert W., 1950
- Clarkia elegans*  
Price, W.C., 1940
- Cleome spinosa*  
Price, W.C., 1940
- Coleus blumei*  
Price, W.C., 1940  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Convolvulus tricolor*  
Price, W.C., 1940
- Crotalaria intermedia*  
Price, W.C., 1940
- Cucumis melo*  
Fulton, Robert W., 1950
- Cucumis melo* var. *reticulatus*  
Fulton, J.P., 1952
- Cucumis sativus*  
Fulton, J.P., 1952  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
Price, W.C. and Ralph W.G. Wyckoff, 1939
- Cucurbita maxima*  
Fulton, J.P., 1952  
Fulton, Robert W., 1950
- Cucurbita pepo* var. *melopepo*  
Frazier, Norman W., 1955
- Cyamopsis tetragonaloba*  
Fulton, Robert W., 1950
- Cymbalaria muralis*  
Price, W.C., 1940

## VIRUS

## V. TOBACCO NECROSIS (cont.)

- Eschscholtzia californica*  
Price, W.C., 1940
- Fragaria californica*  
Frazier, Norman W., 1955
- Fragaria chiloensis* var. *ananassa*  
Fulton, J.P., 1952
- Fragaria vesca*  
Frazier, Norman W., 1955  
Fulton, J.P., 1952
- Gilia capitata*  
Price, W.C., 1940
- Gilia liniflora*  
Price, W.C., 1940
- Glycine max*  
Price, W.C., 1940
- Godetia amoena*  
Price, W.C., 1940
- Gomphrena globosa*  
Kassanis, B., 1955
- Gypsophila elegans*  
Kassanis, B., 1955
- Heliotropium corymbosum*  
Price, W.C., 1940
- Hibiscus manihot*  
Price, W.C., 1940
- Hordeum vulgare*  
Fulton, Robert W., 1950
- Hyoscyamus albus*  
Price, W.C., 1940
- Hyoscyamus niger*  
Price, W.C., 1940
- Incarvillea delavayi*  
Price, W.C., 1940
- Ipomoea setosa*  
Price, W.C., 1940
- Ipomoea* spp.  
Price, W.C., 1940
- Lactuca sativa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lathyrus odoratus*  
Price, W.C., 1940
- Lavatera trimestris*  
Price, W.C., 1940
- Limonium sinuatum*  
Price, W.C., 1940
- Linaria macedonica*  
Price, W.C., 1940
- Lobelia tenuior*  
Price, W.C., 1940
- Lychnis alba*  
Kassanis, B., 1955
- Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Mimulus moschatus*  
Price, W.C., 1940
- Mirabilis jalapa*  
Price, W.C., 1940
- Nemesia strumosa*  
Price, W.C., 1940
- Nemophila menziesii* subsp. *insignis*  
Price, W.C., 1940
- Nicandra physalodes*  
Price, W.C., 1940
- Nicotiana digluta* \* x *Nicotiana tabacum*  
Price, W.C., 1938
- Nicotiana glutinosa*  
Bawden, F.C. and B. Kassanis, 1947  
Kassanis, B., 1949, 1955  
Price, W.C., 1938  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
Price, W.C. and Ralph W.G. Wyckoff, 1939
- Nicotiana langsdorffii*  
Price, W.C., 1940
- Nicotiana rustica*  
Price, W.C., 1938  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Nicotiana sylvestris*  
Price, W.C., 1940  
Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950



## VIRUS

## V. TOBACCO NECROSIS (cont.)

- Nicotiana tabacum*  
 Bawden, F.C. and B. Kassanis, 1947  
 Bawden, F.C. and F.M. Roberts, 1948  
 Frazier, Norman W., 1955  
 Fulton, J.P., 1952  
 Fulton, Robert W., 1950  
 Kassanis, B., 1949, 1955  
 Price, W.C., 1938  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 Price, W.C. and Ralph W.G. Wyckoff, 1939
- Papaver orientale*  
 Price, W.C., 1940
- Pelargonium hortorum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Penstemon* spp.  
 Price, W.C., 1940
- Phacelia campanularia*  
 Price, W.C., 1940
- Phaseolus aureus*  
 Price, W.C., 1940
- Phaseolus vulgaris*  
 Bawden, F.C. and B. Kassanis, 1947  
 Bawden, F.C. and F.M. Roberts, 1948  
 Frazier, Norman W., 1955  
 Fulton, J.P., 1952  
 Fulton, Robert W., 1950  
 Kassanis, B., 1949, 1955  
 Price, W.C., 1938  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 Price, W.C. and Ralph W.G. Wyckoff, 1939
- Phlox drummondii*  
 Price, W.C., 1940
- Phytolacca decandra*  
 Price, W.C., 1940
- Pisum sativum*  
 Price, W.C., 1940
- Polanisia trachysperma*  
 Price, W.C., 1940
- Polyanthus* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Portulaca grandiflora*  
 Price, W.C., 1940
- Primula malacoides*  
 Bawden, F.C. and B. Kassanis, 1947  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Primula obconica*  
 Bawden, F.C. and B. Kassanis, 1947  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950  
 Severin, Henry H.P. and C.M. Tompkins, 1950
- Primula vulgaris*  
 Bawden, F.C. and B. Kassanis, 1947
- Proboscidea louisiana*  
 Price, W.C., 1940
- Rheum rhaponticum*  
 Price, W.C., 1940
- Ricinus communis*  
 Price, W.C., 1940
- Rumex crispus*  
 Price, W.C., 1940
- Salpiglossis sinuata*  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Secale cereale*  
 Price, W.C., 1940
- Sinningia speciosa*  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Solanum nodiflorum*  
 Price, W.C., 1940
- Statice armeria*  
 Price, W.C., 1940
- Tetragonia expansa*  
 Price, W.C., 1940
- Trachymene caerulea*  
 Price, W.C., 1940

## VIRUS

## V. TOBACCO NECROSIS (cont.)

- Trifolium incarnatum*  
 Price, W.C., 1940
- Trifolium pratense*  
 Fulton, Robert W., 1950
- Trifolium repens*  
 Fulton, Robert W., 1950
- Triticum aestivum*  
 Price, W.C., 1940
- Tulipa gesneriana*  
 Fulton, Robert W., 1950  
 Kassanis, B., 1949, 1954
- Verbascum phoeniceum*  
 Price, W.C., 1940
- Veronica longifolia*  
 Price, W.C., 1940
- Vigna sinensis*  
 Fulton, J.P., 1952  
 Fulton, Robert W., 1950, 1952  
 Price, W.C., 1938  
 Price, W.C. and Ralph W.G. Wyckoff, 1939
- Vinca rosea*  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Viola cornuta*  
 Price, W.C., 1940  
 Price, W.C., Frank P. McWhorter and Betty H. Steranka, 1950
- Zaluzianskya villosa*  
 Price, W.C., 1940
- Zea mays*  
 Fulton, J.P., 1952  
 Fulton, Robert W., 1950
- Zinnia elegans*  
 Price, W.C., 1940
- V. TOBACCO RING SPOT Fromme et al. 1927
- Acer ginnala*  
 Wilkinson, R.E., 1952
- Acer negundo*  
 Wilkinson, R.E., 1952
- Amaranthus caudatus*  
 Fulton, Robert W., 1941  
 Price, W.C., 1940
- Amaranthus paniculatus*  
 Wingard, S.A., 1928
- Ambrosia trifida*  
 Wingard, S.A., 1928
- Anthriscus cerefolium*  
 Price, W.C., 1940
- Antirrhinum majus*  
 Berkeley, G.H., 1951, 1953  
 Brierley, Philip, 1952  
 Brierley, Philip and Floyd F. Smith, 1954  
 Travis, R.V. and Philip Brierley, 1957  
 Wingard, S.A., 1928
- Apium graveolens*  
 Anderson, C.W., 1954
- Apium graveolens* var. *dulce*  
 Severin, Henry H.P., 1950
- Aquilegia caerulea*  
 Price, W.C., 1940
- Aster amellus*  
 Pound, Glenn S., 1949
- Aster laevis*  
 Fulton, Robert W., 1941  
 Wingard, S.A., 1928
- Aster* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Barbarea barbarea*  
 Wingard, S.A., 1928
- Begonia semperflorens*  
 Price, W.C., 1940
- Beta vulgaris*  
 Cheo, Pen Ching and W.J. Zaumeyer, 1952  
 Grogan, R.G. and W.C. Schnathorst, 1955  
 Priode, C.N., 1928  
 Wingard, S.A., 1928
- Beta vulgaris* var. *cicla*  
 Wingard, S.A., 1928
- Bidens discoidea*  
 Wingard, S.A., 1928

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Calendula officinalis*  
Fulton, Robert W., 1941  
Pound, Glenn S., 1949  
Wingard, S.A., 1928
- Callistephus chinensis*  
Anderson, C.W., 1954  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Wingard, S.A., 1928
- Campanula medium*  
Price, W.C., 1940
- Canavalia ensiformis*  
Cheo, Pen Ching and W.J. Zaumeyer, 1952
- Capsella bursa-pastoris*  
Pound, Glenn S., 1949
- Capsicum frutescens* (*Capsicum annum*)  
Anderson, C.W., 1954  
Berkeley, G.H., 1951  
Steere, Russell L., 1956
- Cardiospermum halicacabum*  
Price, W.C., 1940
- Centaurea moschata*  
Price, W.C., 1940
- Chenopodium album*  
Wingard, S.A., 1928
- Chenopodium amaranticolor*  
Hollings, M., 1956, 1957
- Chenopodium* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Travis, R.V. and Philip Brierley, 1957
- Chrysanthemum* spp.  
Price, W.C., 1940
- Cichorium endivia*  
Price, W.C., 1940
- Citrullus vulgaris*  
Anderson, C.W., 1954  
Bridgmon, G.H. and J.C. Walker, 1952  
Grogan, R.G. and W.C. Schnathorst, 1955  
McKeen, C.D., 1957  
Pound, Glenn S., 1949  
Rosberg, David W., 1953  
Shepherd, Robert J. and F. Ben Struble, 1956  
Steere, Russell L., 1956  
Wingard, S.A., 1928
- Citrullus vulgaris* var. *citroides*  
Anderson, C.W., 1954
- Clarkia elegans*  
Price, W.C., 1940
- Cleome spinosa*  
Price, W.C., 1940
- Coleus blumei*  
Price, W.C., 1940
- Convolvulus tricolor*  
Price, W.C., 1940
- Crotalaria intermedia*  
LeBeau, F.J., 1947
- Crotalaria spectabilis*  
Corbett, M.K., 1957  
LeBeau, F.J., 1947
- Cucumis melo*  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Henderson, R.G. and S.A. Wingard, 1931  
Pound, Glenn S., 1949
- Cucumis melo* var. *cantalupensis*  
Wingard, S.A., 1928
- Cucumis melo* var. *reticulatus*  
McKeen, C.D., 1957
- Cucumis sativus*  
Allington, William B., 1946  
Anderson, C.W., 1954  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip and Floyd F. Smith, 1954  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Fulton, Robert W., 1941  
Ivanoff, S.S., 1942  
Johnson, E.M., 1930  
LeBeau, F.J., 1947  
McKeen, C.D., 1957  
McKinney, H.H. and E.E. Clayton, 1944  
Pound, Glenn S., 1949  
Rosberg, David W., 1953

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Cucumis sativus*  
Shepherd, Robert J. and F. Ben Struble, 1956  
Steere, Russell L., 1956  
Wingard, S.A., 1928
- Cucurbita maxima*  
McKeen, C.D., 1957  
Pound, Glenn S., 1949
- Cucurbita moschata*  
Bridgmon, G.H. and J.C. Walker, 1952  
Wingard, S.A., 1928
- Cucurbita pepo*  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Pound, Glenn S., 1949  
Steere, Russell L., 1956  
Wingard, S.A., 1928
- Cucurbita pepo* var. *melopepo*  
Anderson, C.W., 1954  
Henderson, R.G. and S.A. Wingard, 1931  
Rosberg, David W., 1953  
Wingard, S.A., 1928
- Cucurbita pepo* var. *ovifera*  
Wingard, S.A., 1928
- Cyamopsis psoraloides*  
Cooper, W.E., 1949  
LeBeau, F.J., 1947  
Starr, Chester K. and W.E. Cooper, 1944
- Cyamopsis tetragonoloba*  
Cheo, Pen Ching and W.J. Zaumeyer, 1952
- Cymbalaria muralis*  
Price, W.C., 1940
- Cynoglossum amabile*  
Fulton, Robert W., 1941  
Price, W.C., 1940
- Datura metel*  
Price, W.C., 1940
- Datura* spp.  
Smith, Kenneth M., 1929
- Datura stramonium*  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cooper, W.E., 1949  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Fulton, Robert W., 1941  
Henderson, R.G. and S.A. Wingard, 1931  
Johnson, E.M., 1930  
Steere, Russell L., 1956  
Thomas, H. Rex and W.J. Zaumeyer, 1950  
Wingard, S.A., 1928
- Delphinium hybrid*  
Severin, Henry H.P., 1942
- Dianthus plumarius*  
Price, W.C., 1940
- Dolichos lablab*  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Fulton, Robert W., 1941  
Pierce, W.H., 1934  
Wingard, S.A., 1928
- Erigeron canadensis*  
Wingard, S.A., 1928
- Eschscholtzia californica*  
Price, W.C., 1940
- Fraxinus pennsylvanica*  
Wilkinson, R.E., 1952
- Gilia capitata*  
Price, W.C., 1940
- Gilia liniflora*  
Price, W.C., 1940
- Gladiolus hortulanus*  
Berkeley, G.H., 1951, 1953  
Bridgmon, G.H., 1951  
Bridgmon, G.H. and J.C. Walker, 1952  
Brierley, Philip, 1952  
Smith, Floyd F. and Philip Brierley, 1955
- Glycine max*  
Allington, William B., 1946  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Cooper, W.E., 1949  
Desjardins, P.R., R.L. Latterell and J.E. Mitchell, 1954

- VIRUS
- V. TOBACCO RING SPOT (cont.)
- Glycine max*  
Dunleavy, John M., 1957  
Kahn, Robert P., 1956  
Kahn, Robert P. and Frances M. Latterell, 1955  
LeBeau, F. J., 1947  
Pierce, W. H., 1934  
Starr, Chester K. and W. E. Cooper, 1944  
Stubbs, M. W., 1937
- Godetia amoena*  
Price, W. C., 1940
- Gomphrena globosa*  
Berkeley, G. H., 1953
- Gomphrena spp.*  
Travis, R. V. and Philip Brierley, 1957
- Heliotropium corymbosum*  
Price, W. C., 1940
- Hesperis matronalis*  
Pound, Glenn S., 1949
- Hibiscus esculentus*  
Fulton, Robert W., 1941  
Wingard, S. A., 1928
- Hibiscus syriacus*  
Wilkinson, R. E., 1952
- Hyoscyamus albus*  
Price, W. C., 1940
- Hyoscyamus niger*  
Price, W. C., 1940
- Impatiens balsamina*  
Price, W. C., 1940
- Incarvillea delavayi*  
Price, W. C., 1940
- Ipomoea purpurea*  
Wingard, S. A., 1928
- Iris germanica*  
Travis, R. V. and Philip Brierley, 1957
- Lactuca sativa*  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955
- Lactuca sativa var. capitata*  
Wingard, S. A., 1928
- Lactuca scariola*  
Wingard, S. A., 1928
- Lactuca serriola*  
Grogan, R. G. and W. C. Schnathorst, 1955
- Lagenaria siceraria (Lagenaria leucantha)*  
Wingard, S. A., 1928
- Lathyrus odoratus*  
Stubbs, M. W., 1937
- Lavatera trimestris*  
Price, W. C., 1940
- Lilium longiflorum*  
Travis, R. V. and Philip Brierley, 1957
- Linaria macedonica*  
Price, W. C., 1940
- Lobelia tenuior*  
Price, W. C., 1940
- Lobularia maritima*  
Price, W. C., 1940
- Luffa aegyptiaca (Luffa cylindrica)*  
Wingard, S. A., 1928
- Lupinus albus*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
LeBeau, F. J., 1947  
Pierce, W. H., 1934  
Stubbs, M. W., 1937
- Lychnis alba*  
Price, W. C., 1940
- Lychnis chalconica*  
Price, W. C., 1940
- Lycopersicon esculentum*  
Anderson, C. W., 1954  
Henderson, R. G. and S. A. Wingard, 1931  
Steere, Russell L., 1956
- Medicago sativa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Melilotus alba*  
Fenne, S. B., 1931  
Henderson, R. G., 1934  
Pierce, W. H., 1934  
Pound, Glenn S., 1949  
Rich, Saul, 1940  
Stubbs, M. W., 1937
- VIRUS
- V. TOBACCO RING SPOT (cont.)
- Melilotus indica*  
LeBeau, F. J., 1947  
Pound, Glenn S., 1949
- Melilotus officinalis*  
Henderson, R. G., 1934  
Henderson, R. G. and S. A. Wingard, 1931  
Stubbs, M. W., 1937  
Wingard, S. A., 1928
- Mimulus moschatus*  
Price, W. C., 1940
- Mirabilis jalapa*  
Price, W. C., 1940
- Mucuna spp.*  
Pierce, W. H., 1934
- Nemesia strumosa*  
Price, W. C., 1940
- Nemophila menziesii subsp. insignis*  
Price, W. C., 1940
- Nicandra physalodes*  
Fulton, Robert W., 1941  
Johnson, E. M., 1930  
Wingard, S. A., 1928
- Nicotiana acuminata*  
Wingard, S. A., 1928
- Nicotiana alata*  
Steere, Russell L., 1956
- Nicotiana clevelandi*  
Wingard, S. A., 1928
- Nicotiana glauca*  
Grogan, R. G. and W. C. Schnathorst, 1955  
Smith, Kenneth M., 1931
- Nicotiana glutinosa*  
Anderson, C. W., 1954  
Benedict, W. G., 1955  
Berkeley, G. H., 1951, 1953  
Bridgman, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Fromme, F. D., S. A. Wingard and C. N. Priode, 1927  
Fulton, Robert W., 1941  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Pierce, W. H., 1934  
Pound, Glenn S., 1949  
Wingard, S. A., 1928
- Nicotiana langsdorffii*  
Fromme, F. D., S. A. Wingard and C. N. Priode, 1927  
Wingard, S. A., 1928
- Nicotiana longiflora*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Wingard, S. A., 1928
- Nicotiana multivalvis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Wingard, S. A., 1928
- Nicotiana paniculata*  
Fromme, F. D., S. A. Wingard and C. N. Priode, 1927  
Wingard, S. A., 1928
- Nicotiana plumbaginifolia*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Wingard, S. A., 1928
- Nicotiana quadrivalvis*  
Wingard, S. A., 1928
- Nicotiana repanda*  
Wingard, S. A., 1928
- Nicotiana rustica*  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Johnson, E. M., 1930  
Pound, Glenn S., 1949  
Wingard, S. A., 1928
- Nicotiana rustica var. jamaicensis*  
Wingard, S. A., 1928

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Nicotiana sanderae*  
Wingard, S. A., 1928
- Nicotiana suaveolens*  
Wingard, S. A., 1928
- Nicotiana sylvestris*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Fromme, F. D., S. A. Wingard and C. N. Priode, 1927  
Price, W. C., 1936  
Wingard, S. A., 1928
- Nicotiana tabacum*  
Allington, William B., 1946  
Anderson, C. W., 1954  
Benedict, W. G., 1955  
Berkeley, G. H., 1951, 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Brierley, Philip, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cook, A. A., 1956  
Cooper, W. E., 1949  
Dunleavy, John M., 1957  
Fenne, S. B., 1931  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Fromme, F. D., S. A. Wingard and C. N. Priode, 1927  
Fulton, Robert W., 1941  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Harrison, B. D., 1957  
Henderson, R. G. and S. A. Wingard, 1931  
Hoggan, I. A., 1933  
Johnson, E. M., 1930  
Kahn, Robert P. and Frances M. Latterell, 1955  
LeBeau, F. J., 1947  
McKinney, H. H., 1943  
McKinney, H. H. and E. E. Clayton, 1944  
Nolla, J. A. B., 1934  
Pierce, W. H., 1934  
Pound, Glenn S., 1949  
Price, W. C., 1936  
Roberts, Daniel A., 1952  
Rosberg, David W., 1953  
Shepherd, Robert J. and F. Ben Struble, 1956  
Smith, Kenneth M., 1929, 1935  
Starr, Chester K. and W. E. Cooper, 1944  
Steere, Russell L., 1956  
Stubbs, M. W., 1937  
Tall, M. G., W. C. Price and Kenneth Wertman, 1949  
Travis, R. V. and Philip Brierley, 1957  
Valleau, W. D., 1932, 1935, 1941  
Walters, H. J., 1952  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *atropurpurea* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *auriculata* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *brasiliensis*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *calyciflora*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *calycina* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *cavala* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *colossea* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *gigantea* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *lacerata* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *latissima*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *macrophylla*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *microphylla* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *purpurea* \*  
Wingard, S. A., 1928
- Nicotiana tabacum* var. *sanguinea* \*  
Wingard, S. A., 1928

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Nicotiana tomentosa*  
Wingard, S. A., 1928
- Nicotiana trigonophylla*  
Wingard, S. A., 1928
- Parthenium argentatum*  
Severin, Henry H. P., 1945
- Penstemon* spp.  
Price, W. C., 1940
- Petunia hybrida*  
Berkeley, G. H., 1953  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
Dunleavy, John M., 1957  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Pound, Glenn S., 1949  
Priode, C. N., 1928  
Shepherd, Robert J. and F. Ben Struble, 1956  
Smith, Kenneth M., 1929  
Starr, Chester K. and W. E. Cooper, 1944  
Steere, Russell L., 1956
- Petunia violacea*  
Fulton, Robert W., 1941  
Henderson, R. G., 1931  
Henderson, R. G. and S. A. Wingard, 1931  
Wingard, S. A., 1928
- Phacelia campanularia*  
Price, W. C., 1940
- Phaseolus aconitifolius*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Phaseolus acutifolius* var. *latifolius*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Phaseolus angularis*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Pierce, W. H., 1934
- Phaseolus aureus*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
Pierce, W. H., 1934  
Starr, Chester K. and W. E. Cooper, 1944
- Phaseolus calcaratus*  
Pierce, W. H., 1934
- Phaseolus coccineus*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Phaseolus lathyroides*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Phaseolus limensis*  
Pierce, W. H., 1934
- Phaseolus lunatus*  
Cooper, W. E., 1949  
LeBeau, F. J., 1947  
Pierce, W. H., 1934  
Wingard, S. A., 1928
- Phaseolus multiflora*  
LeBeau, F. J., 1947
- Phaseolus mungo*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Phaseolus vulgaris*  
Allington, William B., 1946  
Anderson, C. W., 1954  
Berkeley, G. H., 1951, 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Brierley, Philip, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Kahn, Robert P. and Frances M. Latterell, 1955  
LeBeau, F. J., 1947  
McKinney, H. H. and E. E. Clayton, 1944  
Pierce, W. H., 1944  
Pound, Glenn S., 1949  
Roberts, Daniel A., 1952  
Rosberg, David W., 1953  
Shepherd, Robert J. and F. Ben Struble, 1956  
Stubbs, M. W., 1937  
Tall, M. G., W. C. Price and Kenneth Wertman, 1949  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
Travis, R. V. and Philip Brierley, 1957

- VIRUS  
V. TOBACCO RING SPOT (cont.)  
*Phaseolus vulgaris*  
Wingard, S. A., 1928  
Zaumeyer, W. J. and B. L. Wade, 1935  
*Physalis angulata*  
Wingard, S. A., 1928  
*Physalis heterophylla* var. *nyctaginea*  
Johnson, E. M., 1930  
*Physalis peruviana*  
Price, W. C., 1940  
*Physalis pubescens*  
Cooper, W. E., 1949  
*Physostegia virginiana*  
Price, W. C., 1940  
*Phytolacca decandra*  
Johnson, E. M., 1930  
Priode, C. N., 1928  
Wingard, S. A., 1928  
*Pisum sativum*  
Berkeley, G. H., 1951, 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
Grogan, R. G. and W. C. Schnathorst, 1955  
LeBeau, F. J., 1947  
Pound, Glenn S., 1949  
Rosberg, David W., 1953  
Stubbs, M. W., 1937  
*Pisum sativum* var. *arvense*  
LeBeau, F. J., 1947  
*Plantago lanceolata*  
Price, W. C., 1940  
*Platycodon grandiflorum*  
Price, W. C., 1940  
*Polanisia trachysperma*  
Price, W. C., 1940  
*Polygonum hydropiper*  
Wingard, S. A., 1928  
*Portulaca grandiflora*  
Price, W. C., 1940  
*Primula obconica*  
Price, W. C., 1940  
*Proboscidea louisiana*  
Price, W. C., 1940  
*Prunus avium*  
Wilkinson, R. E., 1952  
*Rheum rhaponticum*  
Price, W. C., 1940  
*Ricinus communis*  
Cook, A. A., 1956  
Wingard, S. A., 1928  
*Rumex crispus*  
Price, W. C., 1940  
*Salpiglossis sinuata*  
Price, W. C., 1940  
*Salvia splendens*  
Fulton, Robert W., 1941  
Wingard, S. A., 1928  
*Sambucus canadensis*  
Wilkinson, R. E., 1952  
*Scabiosa atropurpurea*  
Wingard, S. A., 1928  
*Sesamum orientale*  
Cooper, W. E., 1949  
*Solanum carolinense*  
Wingard, S. A., 1928  
*Solanum melongena*  
Fulton, Robert W., 1941  
Ivanoff, S. S., 1942  
Jones, S. E., 1942  
Valleau, W. D., 1951  
*Solanum melongena* var. *esculentum*  
Wingard, S. A., 1928  
*Solanum nigrum*  
Wingard, S. A., 1928  
*Solanum nodiflorum*  
Price, W. C., 1940  
*Solanum pseudocapsicum*  
Wingard, S. A., 1928  
*Solanum triflorum*  
Pound, Glenn S., 1949  
*Solanum tuberosum*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- VIRUS  
V. TOBACCO RING SPOT (cont.)  
*Solanum tuberosum*  
Grogan, R. G. and W. C. Schnathorst, 1955  
Henderson, R. G. and S. A. Wingard, 1931  
Valleau, W. D., 1932  
*Spinacia oleracea*  
Bridgmon, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Fulton, Robert W., 1941  
Grogan, R. G. and W. C. Schnathorst, 1955  
Hoggan, I. A., 1933  
*Tagetes erecta*  
Grogan, R. G. and W. C. Schnathorst, 1955  
Wingard, S. A., 1928  
*Tetragonia expansa*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Priode, C. N., 1928  
Wingard, S. A., 1928  
*Thlaspi arvense*  
Pound, Glenn S., 1949  
*Trachymene caerulea*  
Price, W. C., 1940  
*Trifolium hybridum*  
Rich, Saul, 1940  
*Trifolium incarnatum*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Pierce, W. H., 1934  
Stubbs, M. W., 1937  
*Trifolium pratense*  
Benedict, W. G., 1955  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Pound, Glenn S., 1949  
*Trifolium repens*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Trigonella foenum-graecum*  
Grogan, R. G. and W. C. Schnathorst, 1955  
*Tropaeolum majus*  
Anderson, C. W., 1954  
Price, W. C., 1940  
*Tropaeolum peregrinum*  
Price, W. C., 1940  
*Ulmus americana*  
Wilkinson, R. E., 1952  
*Verbascum phoeniceum*  
Price, W. C., 1940  
*Verbena venosa*  
Price, W. C., 1940  
*Verbesina alternifolia*  
Fenne, S. B., 1931  
Henderson, R. G. and S. A. Wingard, 1931  
*Veronica longifolia*  
Price, W. C., 1940  
*Vicia faba*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Pound, Glenn S., 1949  
*Vicia faba* var. *minor* \*  
Pierce, W. H., 1934  
Stubbs, M. W., 1937  
*Vicia sativa*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
LeBeau, F. J., 1947  
Pierce, W. H., 1934  
*Vigna cylindrica* (*Vigna catjang*)  
Cooper, W. E., 1949  
*Vigna sesquipedalis*  
Cooper, W. E., 1949  
Pierce, W. H., 1934  
*Vigna sinensis*  
Anderson, C. W., 1954  
Benedict, W. G., 1955  
Berkeley, G. H., 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
Desjardins, P. R., R. L. Latterell and J. E. Mitchell, 1954  
Dunleavy, John M., 1957  
Grogan, R. G., Roy Bardin and W. C. Schnathorst, 1954  
Grogan, R. G. and W. C. Schnathorst, 1955  
Kahn, Robert P., 1956

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Vigna sinensis*  
Kahn, Robert P. and Frances M. Latterell, 1955  
LeBeau, F.J., 1947  
Pierce, W.H., 1934  
Pound, Glenn S., 1949  
Price, W.C., 1936  
Rosberg, David W., 1953  
Shepherd, Robert J. and F. Ben Struble, 1956  
Starr, Chester K. and W.E. Cooper, 1944  
Steere, Russell L., 1956  
Walters, H.J., 1952  
Wingard, S.A., 1928
- Vinca rosea*  
Price, W.C., 1940
- Viola cornuta*  
Price, W.C., 1940
- Viola papilionacea*  
Wingard, S.A., 1928
- Viola tricolor*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
McKinney, H.H. and E.E. Clayton, 1944  
Wingard, S.A., 1928
- Zaluzianskya villosa*  
Price, W.C., 1940
- Zea mays*  
Bridgmon, G.H., 1951  
Bridgmon, G.H. and J.C. Walker, 1952
- Zinnia elegans*  
Anderson, C.W., 1954  
Bridgmon, G.H. and J.C. Walker, 1952  
Cheo, Pen Ching and W.J. Zaumeyer, 1952  
Fulton, Robert W., 1941  
Grogan, R.G. and W.C. Schnathorst, 1955  
Pound, Glenn S., 1949  
Price, W.C., 1935  
Wingard, S.A., 1928
- V. TOBACCO RING SPOT NO. 2 Price 1936
- Althaea rosea*  
Wilkinson, R.E., 1952
- Amaranthus caudatus*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Anthriscus cerefolium*  
Price, W.C., 1940
- Antirrhinum majus*  
Brierley, Philip, 1954
- Arctium lappa*  
Wilkinson, R.E., 1952
- Asperula odorata*  
Price, W.C., 1940
- Begonia semperflorans*  
Price, W.C., 1940
- Beta vulgaris*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Callistephus chinensis*  
Brierley, Philip, 1954  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Campanula medium*  
Price, W.C., 1940
- Clarkia elegans*  
Price, W.C., 1940
- Cleome spinosa*  
Price, W.C., 1940
- Coleus blumei*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Convolvulus tricolor*  
Price, W.C., 1940
- Cucumis sativus*  
Brierley, Philip, 1954  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Cucurbita maxima*  
Steere, Russell L., 1956  
Wilkinson, R.E., 1952
- Cucurbita moschata*  
Steere, Russell L., 1956
- Cymbalaria muralis*  
Hildebrand, E.M., 1942

## VIRUS

## V. TOBACCO RING SPOT NO. 2 (cont.)

- Cymbalaria muralis*  
Price, W.C., 1940
- Datura stramonium*  
Brierley, Philip, 1954
- Eschscholtzia californica*  
Brierley, Philip, 1954
- Gilia capitata*  
Brierley, Philip, 1954
- Gilia liniflora*  
Price, W.C., 1940
- Godetia amoena*  
Price, W.C., 1940
- Helichrysum bracteatum*  
Brierley, Philip, 1954
- Heliotropium carymbosum*  
Price, W.C., 1940
- Hibiscus manihot*  
Price, W.C., 1940
- Hydrangea macrophylla*  
Brierley, Philip, 1954
- Impatiens balsamina*  
Price, W.C., 1940
- Ipomoea setosa*  
Price, W.C., 1940
- Linaria macedonica*  
Price, W.C., 1940
- Lobularia maritima*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Lychnis chalconica*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Lycopersicon esculentum*  
Brierley, Philip, 1954  
Hildebrand, E.M., 1942  
Price, W.C., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Mimulus moschatus*  
Price, W.C., 1940
- Mirabilis jalapa*  
Price, W.C., 1940
- Nemesia strumosa*  
Price, W.C., 1940
- Nemophila menziesii* subsp. *insignis*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Nicotiana alata*  
Wilkinson, R.E., 1952
- Nicotiana glauca* \* x *Nicotiana tabacum*  
Tall, M.G., W.C. Price and Kenneth Wertman, 1949
- Nicotiana glutinosa*  
Hildebrand, E.M., 1942  
Price, W.C., 1936
- Nicotiana langsdorffii*  
Hildebrand, E.M., 1942  
Price, W.C., 1936
- Nicotiana rustica*  
Hildebrand, E.M., 1941, 1942
- Nicotiana sylvestris*  
Hildebrand, E.M., 1942  
Price, W.C., 1936
- Nicotiana tabacum*  
Brierley, Philip, 1954  
Hildebrand, E.M., 1941, 1942  
Price, W.C., 1936  
Tall, M.G.; W.C. Price and Kenneth Wertman, 1949
- Oenothera* spp.  
Wilkinson, R.E., 1952
- Pastinaca sativa*  
Wilkinson, R.E., 1952
- Pelargonium hortorum*  
Hildebrand, E.M., 1942  
Price, W.C., 1940
- Penstemon* spp.  
Price, W.C., 1940
- Petunia hybrida*  
Brierley, Philip, 1954
- Phaseolus vulgaris*  
Hildebrand, E.M., 1942  
Price, W.C., 1936

- VIRUS  
V. TOBACCO RING SPOT NO. 2 (cont.)  
*Phaseolus vulgaris*  
Tall, M. G., W. C. Price and Kenneth Wertman, 1949  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Phlox drummondii*  
Brierley, Philip, 1954  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Phytolacca decandra*  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Pisum sativum*  
Wilkinson, R. E., 1952  
*Platycodon grandiflorum*  
Brierley, Philip, 1954  
*Proboscidea louisiana*  
Price, W. C., 1940  
*Raphanus sativus*  
Price, W. C., 1940  
*Reseda odorata*  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Rheum rhaponticum*  
Price, W. C., 1940  
*Ribes sativum*  
Hildebrand, E. M., 1941, 1942  
*Ricinus communis*  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Rumex crispus*  
Price, W. C., 1940  
*Sanvitalia procumbens*  
Holmes, Francis O., 1946  
*Sedum acre*  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Senecio cruentus*  
Brierley, Philip, 1954  
*Silene compacta*  
Brierley, Philip, 1954  
*Sinningia speciosa*  
Brierley, Philip, 1954  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Solanum carolinense*  
Wilkinson, R. E., 1952  
*Solanum nodiflorum*  
Hildebrand, E. M., 1942  
*Spinacia oleracea*  
Brierley, Philip, 1954  
Tetragonia expansa  
Brierley, Philip, 1954  
Price, W. C., 1940  
*Tropaeolum majus*  
Brierley, Philip, 1954  
*Verbascum pheoniceum*  
Price, W. C., 1940  
*Verbena venosa*  
Price, W. C., 1940  
*Verbesina encelioides*  
Brierley, Philip, 1954  
*Veronica longifolia*  
Price, W. C., 1940  
*Vigna sinensis*  
Hildebrand, E. M., 1942  
Price, W. C., 1936  
*Vinca rosea*  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
*Viola cornuta*  
Price, W. C., 1940  
*Zaluzianskya villosa*  
Price, W. C., 1940  
*Zinnia elegans*  
Brierley, Philip, 1954  
Hildebrand, E. M., 1942  
Price, W. C., 1940  
V. TOBACCO STREAK J. Johnson 1936  
*Abutilon theophrasti*  
Fulton, Robert W., 1948
- VIRUS  
V. TOBACCO STREAK (cont.)  
*Aeschynomene indica*  
Fulton, Robert W., 1948  
*Althaea rosea*  
Fulton, Robert W., 1948  
*Ambrosia artemisiifolia*  
Fulton, Robert W., 1948  
*Ambrosia trifida*  
Fulton, Robert W., 1948  
*Antirrhinum* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Apium graveolens*  
Fulton, Robert W., 1948  
*Arctium minus*  
Fulton, Robert W., 1948  
*Asclepias syriaca*  
Fulton, Robert W., 1948  
*Beta patellaris*  
Costa, A. S., 1952  
*Beta vulgaris*  
Fulton, Robert W., 1948  
*Brassica kaber* (*Brassica arvensis*)  
Fulton, Robert W., 1948  
*Callistephus chinensis*  
Fulton, Robert W., 1948  
*Capsicum frutescens* (*Capsicum annuum*)  
Fulton, Robert W., 1948  
*Cerastium vulgatum*  
Fulton, Robert W., 1948  
*Chenopodium album*  
Fulton, Robert W., 1948  
*Chenopodium* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
*Cichorium endiva*  
Fulton, Robert W., 1948  
*Citrullus vulgaris*  
Fulton, Robert W., 1948  
*Convolvulus arvensis*  
Fulton, Robert W., 1948  
*Convolvulus* spp.  
Fulton, Robert W., 1948  
*Crotalaria intermedia*  
Fulton, Robert W., 1948  
*Crotalaria spectabilis*  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Cucumis melo*  
Fulton, Robert W., 1948  
*Cucumis sativus*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Cucurbita maxima*  
Fulton, Robert W., 1948  
*Cucurbita pepo*  
Fulton, Robert W., 1948  
*Cyamopsis tetragonoloba*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Datura metel*  
Fulton, Robert W., 1948  
*Datura stramonium*  
Fulton, Robert W., 1941, 1948  
Johnson, J., 1936  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Dolichos biflorus*  
Fulton, Robert W., 1948  
*Fagopyrum esculentum*  
Fulton, Robert W., 1948  
*Fragaria virginiana*  
Fulton, Robert W., 1948  
*Geum* spp.  
Fulton, Robert W., 1948  
*Glycine max*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W. J. Zaumeyer, 1950  
*Gossypium hirsutum*  
Fulton, Robert W., 1948  
*Hedysarum coronarium*  
Fulton, Robert W., 1948  
*Hibiscus esculentus*  
Fulton, Robert W., 1948  
*Hibiscus* spp.  
Fulton, Robert W., 1948

## VIRUS

## V. TOBACCO STREAK (cont.)

- Iodanthus pinnatifidus*  
Fulton, Robert W., 1948
- Lactuca sativa*  
Fulton, Robert W., 1948
- Lupinus albus*  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Lupinus angustifolius*  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Lychnis alba*  
Fulton, Robert W., 1948
- Lycium halimifolium*  
Fulton, Robert W., 1948
- Lycopersicon esculentum*  
Fulton, Robert W., 1948
- Malva rotundifolia*  
Fulton, Robert W., 1948
- Melilotus alba*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Melilotus indica*  
Diachun, Stephen and W.D. Valleau, 1950
- Melilotus officinalis*  
Fulton, Robert W., 1948
- Melilotus* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Mirabilis jalapa*  
Fulton, Robert W., 1948
- Nepeta cataria*  
Fulton, Robert W., 1948
- Nicandra physalodes*  
Fulton, Robert W., 1948  
Johnson, J., 1936
- Nicotiana acuminata*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana alata*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana arentsii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana attenuata*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana benavidesii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana benthamiana*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana bigelovii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana bonariensis*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana clevelandii*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana cordifolia*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana corymbosa*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana debneyi*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana exigua*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana fragrans*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana glauca*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana glutinosa*  
Diachun, Stephen and W.D. Valleau, 1954  
Fulton, Robert W., 1941  
Johnson, J., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Nicotiana goodspeedii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana gossei*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana knightiana*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana langsdorffii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana linearis*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana longiflora*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana maritima*  
Diachun, Stephen and W.D. Valleau, 1954

## VIRUS

## V. TOBACCO STREAK (cont.)

- Nicotiana megalosiphon*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana miersii*  
Diachun, Stephen and W.D. Valleau, 1947, 1954
- Nicotiana nesophila*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana nudicaulis*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana occidentalis*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana otophora*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana palmeri*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana paniculata*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana pauciflora*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana plumbaginifolia*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana raimondii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana repanda*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana rotundifolia*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana rustica*  
Diachun, Stephen, 1947  
Diachun, Stephen and W.D. Valleau, 1950, 1954  
Johnson, J., 1936  
Price, W.C. and L.M. Black, 1941  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Nicotiana setchellii*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana* spp.  
Fulton, Robert W., 1948
- Nicotiana stocktoni*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana suaveolens*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana sylvestris*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana tabacum*  
Costa, A.S., 1945, 1952  
Diachun, Stephen, 1947  
Diachun, Stephen and W.D. Valleau, 1950, 1954  
Fulton, Robert W., 1941, 1956  
Johnson, J., 1936  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Nicotiana tabacum* x *Nicotiana glutinosa*  
Johnson, J., 1936
- Nicotiana tomentosa*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana tomentosiformis*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana trigonophylla*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana undulata*  
Diachun, Stephen and W.D. Valleau, 1954
- Nicotiana velutina*  
Diachun, Stephen and W.D. Valleau, 1954
- Oenothera biennis*  
Fulton, Robert W., 1948
- Petunia hybrida*  
Fulton, Robert W., 1948
- Phaseolus aconitifolius*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Phaseolus aureus*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Phaseolus coccineus*  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Phaseolus mungo*  
Thomas, H. Rex and W.J. Zaumeyer, 1950
- Phaseolus vulgaris*  
Fulton, Robert W., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1950  
Thomas, W.D., Jr., 1949  
Thomas, W.D., Jr. and R.W. Graham, 1951
- Physalis pubescens*  
Fulton, Robert W., 1948



## VIRUS

- V. TOBACCO STREAK (cont.)  
*Physalis pubescens*  
 Johnson, J., 1936  
*Pisum sativum*  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Plantago major*  
 Fulton, Robert W., 1948  
*Polygonum persicariae*  
 Fulton, Robert W., 1948  
*Portulaca oleracea*  
 Fulton, Robert W., 1948  
*Potentilla monspeliensis*  
 Fulton, Robert W., 1948  
*Psoralea bituminosa*  
 Fulton, Robert W., 1948  
*Robinia pseudoacacia*  
 Fulton, Robert W., 1948  
*Rumex britannica*  
 Fulton, Robert W., 1948  
*Rumex crispus*  
 Fulton, Robert W., 1948  
*Schizanthus wisetonensis*  
 Fulton, Robert W., 1948  
*Sicyos angulatus*  
 Fulton, Robert W., 1948  
*Silene noctiflora*  
 Fulton, Robert W., 1948  
*Sisymbrium officinale*  
 Fulton, Robert W., 1948  
*Solanum aculeatissimum*  
 Fulton, Robert W., 1948  
*Solanum dulcamara*  
 Fulton, Robert W., 1948  
*Solanum integrifolium*  
 Fulton, Robert W., 1948  
*Solanum melongena*  
 Fulton, Robert W., 1948  
*Solanum nigrum*  
 Fulton, Robert W., 1948  
*Solanum triflorum*  
 Fulton, Robert W., 1948  
*Solanum tuberosum*  
 Fulton, Robert W., 1948  
*Sonchus oleraceus*  
 Fulton, Robert W., 1948  
*Spergula arvensis*  
 Fulton, Robert W., 1948  
*Spinacia oleracea*  
 Fulton, Robert W., 1948  
*Taraxacum officinale*  
 Fulton, Robert W., 1948  
*Trifolium glomeratum*  
 Fulton, Robert W., 1948  
*Trifolium incarnatum*  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Trifolium pratense*  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Trifolium repens*  
 Fulton, Robert W., 1948  
*Trigonella* spp.  
 Fulton, Robert W., 1948  
*Tropaeolum majus*  
 Fulton, Robert W., 1948  
*Venidium fastuosum*  
 Fulton, Robert W., 1948  
*Verbascum thapsus*  
 Fulton, Robert W., 1948  
*Vicia faba*  
 Fulton, Robert W., 1948  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Vicia sativa*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Vigna sesquipedalis*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Vigna sinensis*  
 Thomas, H. Rex and W.J. Zaumeyer, 1950  
*Vinca rosea*  
 Fulton, Robert W., 1948  
*Zinnia elegans*  
 Fulton, Robert W., 1948

## VIRUS

- V. TOBACCO STUNT \*  
*Nicotiana tabacum*  
 Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki,  
 1956
- V. TOBACCO VEIN DISTORTING Smith 1945  
*Datura stramonium*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Lycopersicon esculentum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana glutinosa*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana sylvestris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Nicotiana tabacum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. TOBACCO YELLOW DWARF Hill 1937  
*Brassica adpressa*  
 Helson, G.A.H., 1950  
*Callistephus chinensis*  
 Helson, G.A.H., 1950  
*Cryptostemma calendulaceum*  
 Helson, G.A.H., 1950  
 Hill, A.V., 1950  
*Datura stramonium*  
 Helson, G.A.H., 1950  
 Hill, A.V., 1950  
 Hill, A.V. and M. Mandryk, 1954  
*Datura stramonium* var. *tatula*  
 Helson, G.A.H., 1950  
*Erodium cicutarium*  
 Helson, G.A.H., 1950  
 Hill, A.V., 1950  
*Erodium cygnorum*  
 Helson, G.A.H., 1950  
*Hypochoeris radicata*  
 Helson, G.A.H., 1950  
*Lycopersicon esculentum*  
 Hill, A.V., 1950  
 Hill, A.V. and M. Mandryk, 1954  
*Malva parviflora*  
 Helson, G.A.H., 1950  
*Medicago denticulata*  
 Helson, G.A.H., 1950  
 Hill, A.V., 1950  
*Medicago sativa*  
 Helson, G.A.H., 1950  
*Modiola caroliniana*  
 Helson, G.A.H., 1950  
*Nicotiana australasiae*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana excelsior*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana glauca*  
 Hill, A.V., 1950  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana glutinosa*  
 Hill, A.V., 1950  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana gossei*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana maritima*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana rustica*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana suaveolens*  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana tabacum*  
 Hill, A.V., 1950  
 Hill, A.V. and M. Mandryk, 1954  
*Nicotiana tabacum* var. *atropurpurea* \*  
 Hill, A.V. and M. Mandryk, 1954  
*Silybum marianum*  
 Helson, G.A.H., 1950  
*Solanum laciniatum*  
 Hill, A.V., 1950  
*Solanum nigrum*  
 Hill, A.V., 1950  
*Solanum opacum*  
 Hill, A.V. and M. Mandryk, 1954  
*Sonchus oleraceus*  
 Helson, G.A.H., 1950  
*Trifolium repens*  
 Helson, G.A.H., 1950

## VIRUS

- V. TOMATO ASPERMY Belncowe and Caldwell 1949
- Antirrhinum majus*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Beta vulgaris*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Calendula officinalis*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Callistephus chinensis*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Canna indica*  
Ocfemia, G. O., 1956
- Capsicum frutescens* (*Capsicum annum*)  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Celosia argentea* var. *cristata*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Chenopodium amaranticolor*  
Hollings, M., 1955, 1956
- Chrysanthemum carinatum*  
Hollings, M., 1955
- Chrysanthemum coccineum*  
Hollings, M., 1955
- Chrysanthemum frutescens*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Chrysanthemum hortorum*  
Graham, D. C., 1957
- Chrysanthemum indicum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Hollings, M., 1955
- Chrysanthemum leucanthemum*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Chrysanthemum morifolium*  
Blencowe, J. W. and John Caldwell, 1949  
Brierley, Philip, 1955  
Brierley, Philip and Floyd F. Smith, 1953, 1957  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955  
Holmes, Francis O., 1956  
Ocfemia, G. O., 1956
- Chrysanthemum parthenium* f. *flosculosum* \*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Convolvulus tricolor*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Cucumis sativus*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Datura innoxia*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Datura stramonium*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Delphinium ajacis*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Emilia sagittata*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Gaillardia pulchella* var. *picta*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Galinsoga parviflora*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Glycine max*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## VIRUS

- V. TOMATO ASPERMY (cont.)
- Gomphrena globosa*  
Hollings, M., 1955
- Helichrysum bracteatum*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Hyoscyamus niger*  
Hollings, M., 1955
- Impatiens balsamina*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Ipomoea purpurea*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Lactuca sativa*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Lilium longiflorum*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Lobelia erinus*  
Hollings, M., 1955
- Lycopersicon esculentum*  
Blencowe, J. W. and John Caldwell, 1949  
Brierley, Philip and Floyd F. Smith, 1953  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Nicotiana glutinosa*  
Blencowe, J. W. and John Caldwell, 1949  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955  
Ocfemia, G. O., 1956  
Wilkinson, John, 1952
- Nicotiana rustica*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Nicotiana sylvestris*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Nicotiana tabacum*  
Blencowe, J. W. and John Caldwell, 1949  
Brierley, Philip, 1955  
Brierley, Philip and Floyd F. Smith, 1953  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955  
Hollings, M., 1955  
Ocfemia, G. O., 1956
- Petunia hybrida*  
Brierley, Philip and Floyd F. Smith, 1953  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955
- Petunia hybrida* var. *erecta* \*  
Hollings, M., 1955
- Petunia hybrida* var. *nana compacta* \*  
Hollings, M., 1955
- Phaseolus vulgaris*  
Hollings, M., 1955
- Phlox drummondii*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955  
Hollings, M., 1955
- Physalis angulata*  
Brierley, Philip and Floyd F. Smith, 1953  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1953, 1955
- Physalis floridana*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955
- Primula sinensis*  
Hollings, M., 1955
- Primula sinensis* var. *stellata*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Rheum raphonticum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Salpiglossis sinuata*  
Hollings, M., 1955
- Senecio cruentus*  
Brierley, Philip, Floyd F. Smith and S. P. Doolittle, 1955

- VIRUS
- V. TOMATO ASPERMY (cont.)
- Senecio cruentus*  
Hollings, M., 1955
- Solanum melongena*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Spinacia oleracea*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1953, 1955  
Hollings, M., 1955
- Tetragonia expansa*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Tropaeolum majus*  
Hollings, M., 1955
- Verbesina encelioides*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Vigna sinensis*  
Hollings, M., 1955
- Zinnia elegans*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
Hollings, M., 1955
- V. TOMATO BIG BUD Samuel et al. 1933
- Apium graveolens*  
Helms, Katie, 1957
- Beta vulgaris*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954
- Calendula officinalis*  
Helms, Katie, 1957
- Crotalaria goreensis*  
Helms, Katie, 1957
- Datura stramonium*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954  
Norris, D.O., 1954
- Datura stramonium* var. *tatula*  
Helms, Katie, 1957
- Daucus carota*  
Helms, Katie, 1957
- Daucus carota* var. *sativa*  
Kunkel, L.O., 1951
- Lactuca sativa*  
Helms, Katie, 1957
- Lycopersicon esculentum*  
Alvarez-Garcia, L.A. and Jose Adsuar, 1950  
Dana, B.F., 1940  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954  
Hutton, E.M. and D.C. Work, 1947  
Menzies, J.D., 1950  
Norris, D.O., 1954  
Samuel, G., J.G. Bald and C.M. Eardley, 1933  
Vasudeva, R. Sahai and T.B. Lal, 1944
- Lycopersicon hirsutum*  
Hutton, E.M. and D.C. Work, 1947
- Lycopersicon peruvianum*  
Hutton, E.M. and D.C. Work, 1947
- Lycopersicon pimpinellifolium*  
Hutton, E.M. and D.C. Work, 1947
- Lycopersicon* spp.  
Dana, B.F., 1940
- Medicago sativa*  
Helms, Katie, 1957
- Nicotiana glauca*  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana glutinosa*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana rustica*  
Helms, Katie, 1957
- Nicotiana tabacum*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana tabacum* var. *atropurpurea* \*  
Helms, Katie, 1957
- Petunia* spp.  
Helms, Katie, 1957
- Solanum melongena*  
Hill, A.V. and M. Mandryk, 1954
- VIRUS
- V. TOMATO BIG BUD (cont.)
- Solanum opacum*  
Hill, A.V. and M. Mandryk, 1954
- Solanum tuberosum*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954  
Norris, D.O., 1954
- Vinca rosea*  
Hill, A.V. and M. Mandryk, 1954
- Vinca rosea* var. *alba*  
Helms, Katie, 1957
- Vinca rosea* var. *oculata* \*  
Helms, Katie, 1957
- V. TOMATO BLACK FLECK \*
- Chenopodium amaranticolor*  
Hollings, M., 1957
- V. TOMATO BLACK RING Smith 1945
- Antirrhinum* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Atropa belladonna*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cheiranthus cheiri*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Chenopodium amaranticolor*  
Harrison, B.D., 1958  
Hollings, M., 1956
- Cucumis sativus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cucurbita pepo*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Datura stramonium*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Dipsacus sylvestris*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Gloxinia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lapsana communis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana langsdorffii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana paniculata*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana rustica*  
Harrison, B.D., 1958
- Nicotiana sylvestris*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana tabacum*  
Harrison, B.D., 1958
- Petunia hybrida*  
Harrison, B.D., 1958
- Phaseolus vulgaris*  
Harrison, B.D., 1958
- Rubus idaeus*  
Harrison, B.D., 1958
- Schizanthus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Spinacia oleracea*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tetragonia expansa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tropaeolum majus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Viola* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. TOMATO BUNCHY TOP McClean 1931, 1935
- Capsicum frutescens* (*Capsicum annum*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicandra physalodes*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana tabacum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Physalis angulata*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

## VIRUS

## V. TOMATO BUNCHY TOP (cont.)

- Physalis peruviana*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Physalis viscosa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum aculeastrum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum aculeatissimum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum giganteum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum incanum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum indicum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum nigrum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum sisymbriifolium*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum sodomaeum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Zinnia elegans*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## V. TOMATO BUSHY STUNT Smith 1935

- Amaranthus caudatus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Aster* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Callistephus chinensis*  
Smith, Kenneth M., 1935
- Cucumis sativus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Datura meteloides*  
Steere, Russell L., 1953
- Datura stramonium*  
Steere, Russell L., 1953
- Lycopersicon esculentum*  
Johnson, Folke, 1941  
Smith, Kenneth M., 1935  
Steere, Russell L., 1953
- Mimulus guttatus*  
Smith, Kenneth M., 1935
- Mimulus luteus*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
Bawden, F. C. and F. M. Roberts, 1948  
Smith, Kenneth M., 1935  
Steere, Russell L., 1953
- Nicotiana langsdorffii*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Smith, Kenneth M., 1935
- Nicotiana tabacum*  
Smith, Kenneth M., 1935
- Phaseolus vulgaris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Solanum tuberosum*  
Smith, Kenneth M., 1935
- Vigna sinensis*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Smith, Kenneth M., 1935
- Zinnia elegans*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Smith, Kenneth M., 1935

## V. TOMATO FILIFORM LEAF DISEASE \*

- Nicotiana tabacum*  
Schwarze, C. A., 1914

## V. TOMATO RING SPOT Samson and Imle 1942 ((Distinct from V. Tomato spotted wilt.))

- Amaranthus retroflexus*  
Samson, R. W. and E. P. Imle, 1942
- Amaranthus tricolor*  
Samson, R. W. and E. P. Imle, 1942
- Androcera rostrata*  
Samson, R. W. and E. P. Imle, 1942
- Capsicum frutescens* (*Capsicum annuum*)  
Samson, R. W. and E. P. Imle, 1942
- Datura* spp.  
Samson, R. W. and E. P. Imle, 1942
- Datura stramonium*  
Imle, E. P. and R. W. Samson, 1937

## VIRUS

## V. TOMATO RING SPOT (cont.)

- Datura stramonium*  
Samson, R. W. and E. P. Imle, 1942
- Datura stramonium* var. *tatula*  
Samson, R. W. and E. P. Imle, 1942
- Glycine max*  
Kahn, Robert P., 1956  
Kahn, Robert P. and Frances M. Latterell, 1955
- Gomphrena globosa*  
Brierley, Philip, 1956  
Brierley, Philip and Paul Lorentz, 1956, 1957
- Hydrangea macrophylla*  
Brierley, Philip and Paul Lorentz, 1956  
Brierley, Philip and Floyd F. Smith, 1953
- Hyoscyamus niger*  
Samson, R. W. and E. P. Imle, 1942
- Lycopersicon esculentum*  
Imle, E. P. and R. W. Samson, 1937  
Samson, R. W. and E. P. Imle, 1942  
Varney, E. H. and J. Duain Moore, 1952
- Lycopersicon pimpinellifolium*  
Samson, R. W. and E. P. Imle, 1942
- Martynia louisiana*  
Samson, R. W. and E. P. Imle, 1942
- Nicandra physalodes*  
Samson, R. W. and E. P. Imle, 1942
- Nicotiana affinis*  
Samson, R. W. and E. P. Imle, 1942
- Nicotiana glutinosa*  
Bennett, C. W., 1944  
Varney, E. H. and J. Duain Moore, 1952
- Nicotiana tabacum*  
Bennett, C. W., 1944  
Brierley, Philip and Paul Lorentz, 1957  
Brierley, Philip and Floyd F. Smith, 1953  
Imle, E. P. and R. W. Samson, 1937  
Kahn, Robert P. and Frances M. Latterell, 1955  
Samson, R. W. and E. P. Imle, 1942  
Varney, E. H. and J. Duain Moore, 1952
- Petunia axillaris*  
Samson, R. W. and E. P. Imle, 1942
- Petunia hybrida* var. *grandiflora* \*  
Samson, R. W. and E. P. Imle, 1942
- Phaseolus vulgaris*  
Kahn, Robert P. and Frances M. Latterell, 1955
- Physalis alkekengi*  
Samson, R. W. and E. P. Imle, 1942
- Solanum carolinense*  
Samson, R. W. and E. P. Imle, 1942
- Solanum melongena*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958  
Samson, R. W. and E. P. Imle, 1942
- Solanum pseudocapsicum*  
Samson, R. W. and E. P. Imle, 1942
- Solanum tuberosum*  
Samson, R. W. and E. P. Imle, 1942
- Ulmus americana*  
Varney, E. H. and J. Duain Moore, 1952
- Vigna sinensis*  
Kahn, Robert P., 1956  
Kahn, Robert P. and Frances M. Latterell, 1955  
Varney, E. H. and J. Duain Moore, 1952

## V. TOMATO SHOESTRING \*

- Lycopersicon esculentum*  
Doering, G. R., W. C. Price and S. B. Fenne, 1957
- Nicotiana glutinosa*  
Doering, G. R., W. C. Price and S. B. Fenne, 1957
- Nicotiana rustica*  
Doering, G. R., W. C. Price and S. B. Fenne, 1957
- Nicotiana sylvestris*  
Doering, G. R., W. C. Price and S. B. Fenne, 1957
- Nicotiana tabacum*  
Doering, G. R., W. C. Price and S. B. Fenne, 1957

## V. TOMATO SPOTTED WILT Samuel et al. 1930

- Amaranthus retroflexus*  
Milbrath, J. A., 1939
- Amaryllis hybrid*  
Gardner, M. W., C. M. Tompkins and O. C. Whipple, 1935
- (*Hippeastrum*) spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## VIRUS

## V. TOMATO SPOTTED WILT (cont.)

- Ananas comosus*  
Carter, W., 1935  
Illingworth, J.F., 1931  
Linford, M.B., 1931, 1932, 1943  
Sakimura, K., 1940
- Anemone* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Antirrhinum* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Apium graveolens* var. *dulce*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
Sakimura, K., 1940
- Aquilegia vulgaris*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Arum palaestinum*  
Tompkins, C.M. and Henry H.P. Severin, 1950
- Aster* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Atropa belladonna*  
Smith, Kenneth M., 1932
- Begonia semperflorens*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Brassica oleracea* var. *botrytis*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Browallia americana* (*Browallia demissa*)  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Browallia speciosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Calceolaria* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Callistephus chinensis*  
Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
Gardner, M.W. and O.C. Whipple, 1934  
Smith, Kenneth M., 1932  
Tompkins, C.M. and M.W. Gardner, 1934  
Whipple, O.C., 1936
- Campanula americana*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Campanula pyramidalis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Capsicum frutescens* (*Capsicum annuum*)  
Ferguson, I.A.C., 1951  
Gardner, M.W. and O.C. Whipple, 1934  
Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
Smith, Kenneth M., 1932  
Tompkins, C.M. and M.W. Gardner, 1934  
Yu, T.F., 1947
- Capsicum frutescens* var. *grossum*  
Sakimura, K., 1940
- Capsicum* spp.  
Smith, Kenneth M., 1931, 1932
- Cheiranthus cheiri*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Cheiranthus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Chenopodium amaranticolor*  
Hollings, M., 1956
- Chrysanthemum morifolium*  
Gardner, M.W. and O.C. Whipple, 1934
- Chrysanthemum* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cichorium endivia*  
Sakimura, K., 1940
- Cichorium intybus*  
Sakimura, K., 1940
- Cinararia cruenta*  
Jones, Leon K., 1944
- Convolvulus arvensis*  
Sherf, A.F., 1948
- Coreopsis drummondii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cosmos bipinnatus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Dahlia pinnata*  
Holmes, Francis O., 1948, 1955

## VIRUS

## V. TOMATO SPOTTED WILT (cont.)

- Dahlia pinnata*  
Smith, Kenneth M., 1932
- Dahlia variabilis*  
Brierley, Philip, 1933  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
Gardner, M.W. and O.C. Whipple, 1934
- Datura stramonium*  
Ainsworth, G.C., 1933  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
Gardner, M.W. and O.C. Whipple, 1934  
Milbrath, J.A., 1939  
Norris, D.O., 1951  
Sakimura, K., 1940  
Shapovalov, M., 1934  
Smith, Kenneth M., 1931, 1932, 1935  
Snyder, W.C. and H. Rex Thomas, 1936  
Whipple, O.C., 1936
- Datura wrightii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Delphinium cultorum*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Delphinium hybrid*  
Severin, Henry H.P., 1942
- Emilia sagittata*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
Linford, M.B., 1931, 1932  
Whipple, O.C., 1936
- Emilia sonchifolia*  
Norris, D.O., 1951  
Parris, G.K., 1940  
Sakimura, K., 1940
- Gaillardia aristata*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Gladiolus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Godetia grandiflora*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Hoya carnosa*  
Prentice, I.W., 1952
- Hyoscyamus niger*  
Smith, Kenneth M., 1932
- Lactuca sativa*  
Gardner, M.W. and O.C. Whipple, 1934  
Milbrath, J.A., 1939  
Sakimura, K., 1940  
Tompkins, C.M. and M.W. Gardner, 1934
- Lactuca sativa* var. *capitata*  
Ainsworth, G.C., 1940  
Snyder, W.C. and H. Rex Thomas, 1936
- Lactuca sativa* var. *longifolia*  
Snyder, W.C. and H. Rex Thomas, 1936  
Tompkins, C.M. and M.W. Gardner, 1934
- Lactuca scariola*  
Milbrath, J.A., 1939
- Lathyrus odoratus*  
Ainsworth, G.C., 1940  
Snyder, W.C. and H. Rex Thomas, 1936
- Layia elegans*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Lobelia* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lupinus albus*  
Gardner, M.W. and O.C. Whipple, 1934
- Lupinus angustifolius*  
Smith, Kenneth M., 1932
- Lupinus leucophyllus*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycium ferocissimum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Lycopersicon esculentum*  
Ainsworth, G.C., 1933, 1940  
Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
Bennett, C.W., 1944

## VIRUS

## V. TOMATO SPOTTED WILT (cont.)

- Lycopersicon esculentum*  
 Berkeley, G.H., 1935  
 Best, Rupert J. and Geoffrey Samuel, 1936  
 Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
 Doolittle, S.P. and C.B. Summer, 1931, 1934  
 Ferguson, I.A.C., 1951  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 Gardner, M.W. and O.C. Whipple, 1934  
 Holmes, Francis O., 1948  
 Hutton, E.M. and A.R. Peak, 1949, 1953  
 Jones, Leon K., 1944  
 MacNeill, Blair H., 1955  
 McWhorter, F.P., 1935  
 McWhorter, F.P. and J.A. Milbrath, 1935  
 Milbrath, J.A., 1939  
 Norris, D.O., 1951  
 Parris, G.K., 1940  
 Sakimura, K., 1940  
 Shapovalov, M., 1934  
 Sherf, A.F., 1948  
 Smith, Kenneth M., 1931, 1932, 1935  
 Smith, Paul G., 1944  
 Smith, Paul G. and M.W. Gardner, 1948, 1951  
 Snyder, W.C. and H. Rex Thomas, 1936  
 Tompkins, C.M. and M.W. Gardner, 1934  
 Whipple, O.C., 1936  
 Yu, T.F., 1947
- Lycopersicon hirsutum*  
 Smith, Paul G., 1944
- Lycopersicon hybrids*  
 Hutton, E.M. and A.R. Peak, 1949
- Lycopersicon peruvianum*  
 Hutton, E.M. and A.R. Peak, 1949, 1953
- Lycopersicon pimpinellifolium*  
 Hutton, E.M. and A.R. Peak, 1949, 1953  
 Sakimura, K., 1940  
 Smith, Paul G., 1944  
 Smith, Paul G. and M.W. Gardner, 1948, 1951
- Lycopersicon pimpinellifolium* x *Lycopersicon esculentum*  
 Smith, Paul G. and M.W. Gardner, 1948
- Malva rotundifolia*  
 Milbrath, J.A., 1939
- Martynia annua*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nepeta cataria*  
 Milbrath, J.A., 1939
- Nicandra physalodes*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nicotiana acuminata*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nicotiana alata*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nicotiana atropurpureum*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana bigelovii*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana calyciflora* \*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana chinensis*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glauca*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 Smith, Kenneth M., 1932
- Nicotiana glutinosa*  
 Ainsworth, G.C., 1933  
 Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
 Berkeley, G.H., 1935  
 Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
 Ferguson, I.A.C., 1951  
 Gardner, M.W. and O.C. Whipple, 1934  
 Holmes, Francis O., 1948  
 Kendrick, J.B., Jr., L.D. Anderson and R.C. Dickson, 1951  
 Milbrath, J.A., 1939  
 Norris, D.O., 1951  
 Sakimura, K., 1940  
 Shapovalov, M., 1934  
 Smith, Kenneth M., 1932

## VIRUS

## V. TOMATO SPOTTED WILT (cont.)

- Nicotiana glutinosa*  
 Snyder, W.C. and H. Rex Thomas, 1936  
 Whipple, O.C., 1936
- Nicotiana langsdorffii*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nicotiana longiflora*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana paniculata*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana rustica*  
 Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
 Gardner, M.W. and O.C. Whipple, 1934  
 Smith, Kenneth M., 1932  
 Tompkins, C.M. and M.W. Gardner, 1934
- Nicotiana sanderae*  
 Gardner, M.W. and O.C. Whipple, 1934
- Nicotiana suaveolens*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana sylvestris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana tabacum*  
 Ainsworth, G.C., 1933  
 Ainsworth, G.C., G.H. Berkeley and J. Caldwell, 1934  
 Bennett, C.W., 1944  
 Berkeley, G.H., 1935  
 Best, Rupert J. and Geoffrey Samuel, 1936  
 Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
 Doolittle, S.P. and C.B. Summer, 1934  
 Ferguson, I.A.C., 1951  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
 Gardner, M.W. and O.C. Whipple, 1934  
 Milbrath, J.A., 1939  
 Price, W.C., 1936  
 Sakimura, K., 1940  
 Shapovalov, M., 1934  
 Sherf, A.F., 1948  
 Smith, Kenneth M., 1931, 1932  
 Snyder, W.C. and H. Rex Thomas, 1936  
 Whipple, O.C., 1936  
 Yu, T.F., 1947
- Nicotiana tabacum* var. *angustifolia*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana tabacum* var. *atropurpureum* \*  
 Norris, D.O., 1951
- Paeonia* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Papaver orientale*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Papaver* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Penstemon hirsutus*  
 Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Petunia hybrida*  
 Gardner, M.W. and O.C. Whipple, 1934  
 Milbrath, J.A., 1939  
 Sakimura, K., 1940
- Petunia* spp.  
 Berkeley, G.H., 1935  
 Norris, D.O., 1951  
 Smith, Kenneth M., 1932
- Phaseolus vulgaris*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Physalis pubescens*  
 Gardner, M.W. and O.C. Whipple, 1934  
 Tompkins, C.M. and M.W. Gardner, 1934
- Pisum sativum*  
 Ainsworth, G.C., 1940  
 Jones, Leon K., 1944  
 Milbrath, J.A., 1939  
 Snyder, W.C. and H. Rex Thomas, 1936  
 Whipple, O.C., 1936
- Plantago major*  
 Smith, Kenneth M., 1932
- Polygonum convolvulus*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Polygonum* spp.  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958

- VIRUS
- V. TOMATO SPOTTED WILT (cont.)
- Primula malacoides*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Primula obconica*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935  
Severin, Henry H.P. and C.M. Tompkins, 1950
- Primula sinensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Ranunculus* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Salpiglossis sinuata*  
Gardner, M.W. and O.C. Whipple, 1934  
Tompkins, C.M. and M.W. Gardner, 1934
- Salvia splendens*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Scabiosa* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Schizanthus pinnatus*  
Gardner, M.W. and O.C. Whipple, 1934  
Tompkins, C.M. and M.W. Gardner, 1934
- Senecio cruentus*  
Gardner, M.W. and O.C. Whipple, 1934
- Sinningia speciosa*  
Gardner, M.W., C.M. Tompkins and O.C. Whipple, 1935
- Solanum aculeatissimum*  
Smith, Kenneth M., 1932
- Solanum capsicastrum*  
Milbrath, J.A., 1939  
Smith, Kenneth M., 1931, 1932
- Solanum dulcamara*  
Smith, Kenneth M., 1932
- Solanum laciniatum*  
Smith, Kenneth M., 1931, 1932
- Solanum marginatum*  
Smith, Kenneth M., 1932
- Solanum melongena*  
Ferguson, I.A.C., 1951  
Gardner, M.W. and O.C. Whipple, 1934  
Sakimura, K., 1940  
Smith, Kenneth M., 1932  
Tompkins, C.M. and M.W. Gardner, 1934
- Solanum miniatum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum nigrum*  
Milbrath, J.A., 1939  
Smith, Kenneth M., 1931, 1932
- Solanum nodiflorum*  
Smith, Kenneth M., 1931, 1932
- Solanum sanitwongsei*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum seafortianum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum sodomaeum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum tuberosum*  
Gardner, M.W. and O.C. Whipple, 1934  
Hutton, E.M., 1947  
Hutton, E.M. and A.R. Peak, 1952  
Milbrath, J.A., 1939  
Norris, D.O., 1951  
Norris, D. and J.G. Bald, 1943  
Parris, G.K., 1940  
Sakimura, K., 1940  
Smith, Kenneth M., 1931, 1932
- Spinacia oleracea*  
Sakimura, K., 1940
- Stellaria media*  
Holmes, Francis O., 1948
- Streptosolen jamesonii*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Trachelium caeruleum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Trachelium* spp.  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tropaeolum majus*  
Black, L.M., M.K. Brakke and A.E. Vatter, 1952  
Gardner, M.W. and O.C. Whipple, 1934  
Milbrath, J.A., 1939  
Whipple, O.C., 1936
- V. TOMATO TWISTED LEAF Ferguson 1951
- Capsicum frutescens* (*Capsicum annuum*)  
Ferguson, I.A.C., 1951
- Lycopersicon esculentum*  
Ferguson, I.A.C., 1951
- Lycopersicon esculentum* x *Lycopersicon pimpinellifolium*  
Ferguson, I.A.C., 1951
- V. TOMATO V-52-1 Miller 1953
- Datura stramonium*  
Miller, Patrick M., 1953
- Lycopersicon esculentum*  
Miller, Patrick M., 1953
- Nicotiana glutinosa*  
Miller, Patrick M., 1953
- Nicotiana tabacum*  
Miller, Patrick M., 1953
- Phaseolus vulgaris*  
Miller, Patrick M., 1953
- Solanum melongena*  
Miller, Patrick M., 1953
- Vigna sinensis*  
Miller, Patrick M., 1953
- V. TOMATO YELLOW NET Sylvester 1954
- Lycopersicon esculentum*  
Sylvester, Edward S., 1954
- Lycopersicon pimpinellifolium*  
Sylvester, Edward S., 1954
- V. TOMATO YELLOW TOP Costa 1949; Sutton 1955
- Lycopersicon esculentum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. TULIP BREAKING McKenny Hughes 1930
- Calochortus* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Fritillaria pudica*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium amabile luteum* \*  
Brierley, Philip, 1940
- Lilium auratum*  
Brierley, Philip, 1940
- Lilium brownii* var. *leucanthemum*  
Brierley, Philip, 1940
- Lilium canadense*  
Brierley, Philip, 1940
- Lilium candidum*  
Brierley, Philip, 1940
- Lilium candidum*  
Brierley, Philip and Floyd F. Smith, 1944

## VIRUS

## V. TULIP BREAKING (cont.)

- Lilium cernuum*  
Brierley, Philip, 1940
- Lilium chalcedonicum*  
Brierley, Philip, 1940
- Lilium croceum*  
Brierley, Philip, 1940
- Lilium dauricum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium dauricum* var. *luteum*  
Brierley, Philip, 1940
- Lilium davidi* var. *willmottiae* \*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium davmottiae* \*  
Brierley, Philip, 1940
- Lilium elegans*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium formosanum* \*  
Brierley, Philip, 1939, 1940  
Brierley, Philip and S. P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1948
- Lilium giganteum*  
Brierley, Philip, 1940
- Lilium henryi*  
Brierley, Philip, 1940
- Lilium longiflorum*  
Brierley, Philip, 1939  
Brierley, Philip and S. P. Doolittle, 1940  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1948
- Lilium myriophyllum* var. *superbum* \*  
Brierley, Philip, 1940
- Lilium princeps*  
Brierley, Philip, 1940
- Lilium pumilum*  
Brierley, Philip, 1940
- Lilium regale*  
Brierley, Philip, 1940
- Lilium sargentiae*  
Brierley, Philip, 1940
- Lilium speciosum*  
Brierley, Philip, 1940
- Lilium superbum*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium testaceum*  
Brierley, Philip, 1940
- Lilium tigrinum*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium umbellatum*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium wallacei*  
Brierley, Philip, 1940
- Narcissus poeticus*  
McWhorter, F. P., 1932
- Tulipa clusiana*  
Cayley, Dorothy M., 1932
- Tulipa eichleri*  
Cayley, Dorothy M., 1932
- Tulipa gesneriana*  
Brierley, Philip, 1939, 1941  
Brierley, Philip and S. P. Doolittle, 1940  
Brierley, Philip and M. B. McKay, 1938  
Brierley, Philip and Floyd F. Smith, 1944  
Cayley, D. M., 1928, 1932  
Hughes, A. W. McKenny, 1930, 1931, 1934  
McWhorter, F. P., 1935, 1938
- Tulipa gesneriana* var. *spathulata*  
Cayley, Dorothy M., 1932
- Tulipa greigii*  
Cayley, Dorothy M., 1932
- Tulipa linifolia*  
Cayley, Dorothy M., 1932
- Zygadenus fremontii*  
Brierley, Philip and Floyd F. Smith, 1944

## V. TULIP WHITE STREAK Smith 1950

- Nicotiana glutinosa*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958

## VIRUS

## V. TULIP WHITE STREAK (cont.)

- Nicotiana tabacum*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Petunia* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Phaseolus vulgaris*  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Tulipa* spp.  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- V. TURNIP CRINKLE Broadbent and Blencowe 1955
- Barbarea vulgaris*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica hirta* (*Brassica alba*)  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica kaber* (*Brassica arvensis*)  
Broadbent, L. and G. D. Heathcote, 1958  
(K. M. Smith, 1957) R. E. Fitzpatrick, et al., 1958
- Brassica napus*  
Broadbent, L. and G. D. Heathcote, 1958  
Lister, R. M., 1958
- Brassica nigra*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica oleracea* var. *botrytis*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica oleracea* var. *capitata*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica oleracea* var. *gemmifera*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica pekinensis*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica rapa*  
Broadbent, L. and G. D. Heathcote  
Lister, R. M., 1958
- Camelina sativa*  
Broadbent, L. and G. D. Heathcote, 1958
- Capsella bursa-pastoris*  
Broadbent, L. and G. D. Heathcote, 1958
- Celosia argentea* var. *plumosa* \*  
Broadbent, L. and G. D. Heathcote, 1958
- Cheiranthus cheiri*  
Broadbent, L. and G. D. Heathcote, 1958
- Chenopodium album*  
Broadbent, L. and G. D. Heathcote, 1958
- Chenopodium amaranticolor*  
Broadbent, L. and G. D. Heathcote, 1958  
Hollings, M., 1957  
Lister, R. M., 1958
- Cleome spinosa*  
Broadbent, L. and G. D. Heathcote, 1958
- Cucumis sativus*  
Broadbent, L. and G. D. Heathcote, 1958  
Lister, R. M., 1958
- Datura stramonium*  
Broadbent, L. and G. D. Heathcote, 1958
- Erysimum cheiranthoides*  
Broadbent, L. and G. D. Heathcote, 1958
- Gomphrena globosa*  
Broadbent, L. and G. D. Heathcote, 1958
- Lactuca sativa* var. *capitata*  
Broadbent, L. and G. D. Heathcote, 1958
- Lepidium campestre*  
Broadbent, L. and G. D. Heathcote, 1958
- Lunaria annua*  
Broadbent, L. and G. D. Heathcote, 1958
- Lycopersicon esculentum*  
Broadbent, L. and G. D. Heathcote, 1958
- Neslia paniculata*  
Broadbent, L. and G. D. Heathcote, 1958
- Nicotiana bigelovii* var. *multivalvis*  
Broadbent, L. and G. D. Heathcote, 1958
- Nicotiana rustica*  
Lister, R. M., 1958
- Nicotiana tabacum*  
Broadbent, L. and G. D. Heathcote, 1958  
Lister, R. M., 1958
- Raphanus raphanistrum*  
Broadbent, L. and G. D. Heathcote, 1958
- Raphanus sativus*  
Broadbent, L. and G. D. Heathcote, 1958
- Reseda odorata*  
Broadbent, L. and G. D. Heathcote, 1958



## VIRUS

- V. TURNIP CRINKLE (cont.)  
*Sisymbrium officinale*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Tetragonia expansa*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Thlaspi arvense*  
 Broadbent, L. and G.D. Heathcote, 1958
- V. TURNIP MOSAIC Gardner and Kendrick; Schultz 1921;  
 Chamberlain 1936; Tompkins 1938  
*Abutilon theophrasti*  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Alyssum maritimum*  
 Tompkins, C.M., 1939  
*Amaranthus caudatus*  
 Pound, Glenn S., 1948  
*Amaranthus tricolor*  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Armoracia rusticana*  
 Dana, B.F. and F.P. McWhorter, 1932  
 Hoggan, I.A. and J. Johnson, 1935  
 Pound, Glenn S., 1948, 1949  
*Barbarea vulgaris*  
 Pound, Glenn S., 1948  
*Begonia semperflorens*  
 Tompkins, C.M., 1938  
*Berteroa incana*  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Beta vulgaris*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Beta vulgaris var. cicla*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica adpressa*  
 Bennett, C.W., 1944  
 Tompkins, C.M., 1938, 1939  
*Brassica campestris*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Tompkins, C.M., 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica campestris var. napobrassica*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Tompkins, C.M., 1938  
*Brassica carinata*  
 Takahashi, William N., 1949  
*Brassica chinensis*  
 Clayton, E.E., 1930  
 Dale, W.T., 1948  
 Sylvester, Edward S., 1953  
 Sylvester, Edward S. and John N. Simons, 1951  
 Takahashi, William N., 1949  
*Brassica hirta (Brassica alba)*  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica juncea (Brassica japonica)*  
 Dale, W.T., 1948  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Schultz, E.S., 1921  
 Sylvester, Edward S., 1950, 1953, 1954  
 Sylvester, Edward S. and John N. Simons, 1951  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945

## VIRUS

- V. TURNIP MOSAIC (cont.)  
*Brassica kaber (Brassica arvensis)*  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
*Brassica kaber var. pinnatifida*  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica napus*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 Dale, W.T., 1948  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1949  
 Takahashi, William N., 1949  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica napus var. biennis \**  
 Sylvester, Edward S., 1953  
*Brassica nigra*  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 Dana, B.F. and F.P. McWhorter, 1932  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Sylvester, Edward S., 1953  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica oleracea*  
 Takahashi, William N., 1949  
*Brassica oleracea var. botrytis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica oleracea var. capitata*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Natti, J.J., 1956  
 Pound, Glenn S., 1946, 1947, 1948  
 Tompkins, C.M., 1938  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica oleracea var. gemmifera*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Clayton, E.E., 1930  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica oleracea var. gongylodes*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica oleracea var. italica \**  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Brassica oleracea var. viridis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945  
*Brassica pekinensis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Schultz, E.S., 1921  
 Sylvester, Edward S., 1953  
 Takahashi, William N., 1949  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S.  
 Pound, 1945

## VIRUS

## V. TURNIP MOSAIC (cont.)

- Brassica rapa*  
 Berkeley, G.H. and M. Weintraub, 1952  
 Clayton, E.E., 1930  
 Dale, W.T., 1948  
 Dana, B.F. and F.P. McWhorter, 1932  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Gardner, Max W. and James B. Kendrick, 1921  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Schultz, E.S., 1921  
 Sylvester, Edward S., 1953  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Calendula officinalis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Capsella bursa-pastoris*  
 Berkeley, G.H. and M. Weintraub, 1952  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Celosia argentea* var. *cristata*  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Centaurea moschata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Cheiranthus allionii*  
 Pound, Glenn S., 1948
- Cheiranthus cheiri*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Chenopodium album*  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Chenopodium murale*  
 Tompkins, C.M., 1939
- Datura metel*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Datura meteloides*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Delphinium ajacis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Digitalis purpurea*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Dimorphotheca aurantiaca*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Godetia amoena*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Gomphrena globosa*  
 Berkeley, G.H. and J.H. Tremaine, 1954
- Hesperis matronalis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Tompkins, C.M., 1938, 1939  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Iberis amara*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lepidium sativum*  
 Berkeley, G.H. and M. Weintraub, 1952  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

## VIRUS

## V. TURNIP MOSAIC (cont.)

- Lepidium virginicum*  
 Dale, W.T., 1948  
 Pound, Glenn S., 1948  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lobularia maritima*  
 Pound, Glenn S., 1948
- Lunaria annua*  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938
- Lycium halimifolium*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lycopersicon pimpinellifolium*  
 Hoggan, I.A. and J. Johnson, 1935
- Malcomia maritima*  
 Pound, Glenn S., 1948  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Matthiola bicornis*  
 Tompkins, C.M., 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Matthiola incana*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952
- Matthiola incana* var. *annua*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Severin, Henry H.P. and C.M. Tompkins, 1950  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Neslia paniculata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicandra physalodes*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana acuminata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana alata* var. *grandiflora*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana glutinosa*  
 Bennett, C.W., 1944  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Berkeley, G.H. and M. Weintraub, 1952  
 Hoggan, I.A. and J. Johnson, 1935  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S., 1948  
 Pound, Glenn S. and Lewis G. Weathers, 1953  
 Tompkins, C.M., 1938, 1939  
 Tompkins, C.M. and H. Rex Thomas, 1938  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana langsdorffii*  
 Tompkins, C.M., 1939
- Nicotiana longiflora*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana multivalvis*  
 LeBeau, Francis J. and J.C. Walker, 1945  
 Pound, Glenn S. and Lewis G. Weathers, 1953  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana nudicaulis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana paniculata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana quadrivalvis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana repanda*  
 LeBeau, Francis J. and J.C. Walker, 1945

## VIRUS

## V. TURNIP MOSAIC (cont.)

- Nicotiana rustica*  
LeBeau, Francis J. and J.C. Walker, 1945  
Pound, Glenn S. and Lewis G. Weathers, 1953  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana sanderae*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana sylvestris*  
LeBeau, Francis J. and J.C. Walker, 1945  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana tabacum*  
Bennett, C.W., 1944  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
Dale, W.T., 1948  
Hoggan, Isme A., 1934  
Hoggan, I.A. and J. Johnson, 1935  
LeBeau, Francis J. and J.C. Walker, 1945  
Pound, Glenn S. and Lewis G. Weathers, 1953  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana tabacum* var. *macrophylla*  
Dale, W.T., 1948
- Nicotiana tabacum* x *Nicotiana glutinosa*  
Hoggan, I.A. and J. Johnson, 1935  
LeBeau, Francis J. and J.C. Walker, 1945
- Nicotiana trigonophylla*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Petunia hybrida*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Berkeley, G.H. and M. Weintraub, 1952  
LeBeau, Francis J. and J.C. Walker, 1945  
Tompkins, C.M., 1938, 1939
- Physalis pubescens*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Raphanus sativus*  
Tompkins, C.M., 1939  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Raphanus sativus* var. *hortensis* \*  
Dale, W.T., 1948
- Raphanus sativus* var. *longipinnatus* \*  
Tompkins, C.M., 1938, 1939
- Reseda odorata*  
Tompkins, C.M., 1938, 1939  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Salpiglossis sinuata*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Scabiosa atropurpurea*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Senecio cruentus*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Sisymbrium altissimum*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Sisymbrium officinale*  
Pound, Glenn S., 1948
- Solanum integrifolium*  
Pound, Glenn S., 1948  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum rostratum*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum triflorum*  
Pound, Glenn S., 1948
- Spinacia oleracea*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Hoggan, I.A. and J. Johnson, 1935  
LeBeau, Francis J. and J.C. Walker, 1945  
Tompkins, C.M., 1939  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

## VIRUS

## V. TURNIP MOSAIC (cont.)

- Stellaria media*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Thlaspi arvense*  
Pound, Glenn S., 1948  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Verbena hybrida*  
Tompkins, C.M., 1938  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Vinca minor*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Zinnia elegans*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Dale, W.T., 1948  
LeBeau, Francis J. and J.C. Walker, 1945
- V. TURNIP ROSETTE \*
- Barbarea vulgaris*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica kaber* (*Brassica arvensis*)  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica napus*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- Brassica oleracea* var. *botrytis*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica oleracea* var. *capitata*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica oleracea* var. *gemmifera*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica pekinensis*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- Brassica rapa*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- Camelina sativa*  
Broadbent, L. and G.D. Heathcote, 1958
- Cheiranthus cheiri*  
Broadbent, L. and G.D. Heathcote, 1958
- Datura stramonium*  
Broadbent, L. and G.D. Heathcote, 1958
- Erysimum cheiranthoides*  
Broadbent, L. and G.D. Heathcote, 1958
- Lactuca sativa* var. *capitata*  
Broadbent, L. and G.D. Heathcote, 1958
- Lepidium campestre*  
Broadbent, L. and G.D. Heathcote, 1958
- Lunaria annua*  
Broadbent, L. and G.D. Heathcote, 1958
- Nicotiana bigelovii* var. *multivalvis* \*  
Broadbent, L. and G.D. Heathcote, 1958
- Raphanus raphanistrum*  
Broadbent, L. and G.D. Heathcote, 1958
- Raphanus sativus*  
Broadbent, L. and G.D. Heathcote, 1958
- Reseda odorata*  
Broadbent, L. and G.D. Heathcote, 1958
- Sisymbrium officinale*  
Broadbent, L. and G.D. Heathcote, 1958
- Thlaspi arvense*  
Broadbent, L. and G.D. Heathcote, 1958
- V. TURNIP YELLOW MOSAIC Markham and Smith 1944
- Barbarea vulgaris*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica carinata*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Brassica hirta* (*Brassica alba*)  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica juncea* (*Brassica japonica*)  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica kaber* (*Brassica arvensis*)  
Broadbent, L. and G.D. Heathcote, 1958  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Brassica napus*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958

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## V. TURNIP YELLOW MOSAIC (cont.)

- Brassica nigra*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica oleracea* var. *botrytis*  
Broadbent, L. and G.D. Heathcote, 1958  
Croxall, H. E., D. C. Gwynne and L. Broadbent, 1953
- Brassica oleracea* var. *capitata*  
Broadbent, L. and G.D. Heathcote, 1958
- Brassica oleracea* var. *caulorapa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Brassica oleracea* var. *gemmifera*  
Broadbent, L. and G.D. Heathcote, 1958  
Croxall, H. E., D. C. Gwynne and L. Broadbent, 1953
- Brassica pekinensis*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- Brassica rapa*  
Broadbent, L. and G.D. Heathcote, 1958  
Lister, R.M., 1958
- Capsella bursa-pastoris*  
Broadbent, L. and G.D. Heathcote, 1958
- Cheiranthus cheiri*  
Broadbent, L. and G.D. Heathcote, 1958
- Conringia orientalis*  
Broadbent, L. and G.D. Heathcote, 1958
- Diplotaxis tenuifolia*  
Broadbent, L. and G.D. Heathcote, 1958
- Erysimum cheiranthoides*  
Broadbent, L. and G.D. Heathcote, 1958
- Lepidium campestre*  
Broadbent, L. and G.D. Heathcote, 1958
- Lunaria annua*  
Broadbent, L. and G.D. Heathcote, 1958
- Nasturtium officinale* (*Rorippa nasturtium-aquaticum*)  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Neslia paniculata*  
Broadbent, L. and G.D. Heathcote, 1958
- Raphanus raphanistrum*  
Broadbent, L. and G.D. Heathcote, 1958
- Raphanus sativus*  
Broadbent, L. and G.D. Heathcote, 1958
- Reseda odorata*  
Broadbent, L. and G.D. Heathcote, 1958
- Sisymbrium officinale*  
Broadbent, L. and G.D. Heathcote, 1958
- Thlaspi arvense*  
Broadbent, L. and G.D. Heathcote, 1958

## V. VACCINIUM FALSE BLOSSOM

- Apium graveolens*  
Kunkel, L.O., 1945
- Brachycome iberidifolia*  
Kunkel, L.O., 1945
- Calendula officinalis*  
Kunkel, L.O., 1945
- Callistephus chinensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Centaurea imperialis*  
Kunkel, L.O., 1945
- Convolvulus arvensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cryptostemma calendulaceum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Cuscuta campestris*  
Costa, A.S., 1944
- Datura fastuosa*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Daucus carota*  
Kunkel, L.O., 1945
- Dianthus* spp.  
Kunkel, L.O., 1945
- Dimorphotheca aurantiacum*  
Kunkel, L.O., 1945
- Erodium cicutarium*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Erodium cygnorum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Eschscholtzia californica*  
Kunkel, L.O., 1945
- Gaillardia aristata*  
Kunkel, L.O., 1945

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## V. VACCINIUM FALSE BLOSSOM (cont.)

- Lycopersicon esculentum*  
Costa, A.S., 1944  
Kunkel, L.O., 1943, 1945
- Nicotiana chinensis*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana glutinosa*  
Kunkel, L.O., 1945
- Nicotiana langsdorffii*  
Kunkel, L.O., 1945
- Nicotiana purpurea* \*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nicotiana rustica*  
Kunkel, L.O., 1945
- Nicotiana tabacum*  
Kunkel, L.O., 1945
- Nicotiana trigonophylla*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Nierembergia frutescens*  
Kunkel, L.O., 1945
- Pastinaca sativa*  
Kunkel, L.O., 1945
- Petroselinum hortense*  
Kunkel, L.O., 1945
- Petunia hybrida*  
Kunkel, L.O., 1945
- Phlox drummondii*  
Kunkel, L.O., 1945
- Salpiglossis* spp.  
Kunkel, L.O., 1945
- Scabiosa atropurpurea*  
Kunkel, L.O., 1945
- Schizanthus* spp.  
Kunkel, L.O., 1945
- Solanum nigrum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum seafortianum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum trilobatum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Solanum tuberosum*  
Kunkel, L.O., 1945
- Solanum xanthocarpum*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- Tagetes erecta*  
Kunkel, L.O., 1945
- Tragopogon porrifolius*  
Kunkel, L.O., 1945
- Vaccinium macrocarpon* (*Oxycoccus macrocarpon*)  
Bergman, H.F. and W.E. Truran, 1933  
Kunkel, L.O., 1943, 1945  
Stevens, Neil E., 1944  
Wilcox, R.B., 1950, 1951  
Wilcox, R.B. and C.S. Beckwith, 1933
- Veronica peregrina*  
Kunkel, L.O., 1945
- Vinca rosea*  
Kunkel, L.O., 1945
- Withania somnifera*  
(K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958
- V. VACCINIUM MOSAIC \*  
*Vaccinium angustifolium*  
Varney, E.H., 1957
- V. VACCINIUM RING SPOT Hutchinson and Varney 1954  
*Datura stramonium*  
Hilborn, M.T. and Reiner Bonde, 1956  
*Vaccinium angustifolium*  
Hilborn, M.T. and Reiner Bonde, 1956  
*Vaccinium corymbosum*  
Hutchinson, M.T. and E.H. Varney, 1954
- V. VACCINIUM SHOESTRING \*  
*Vaccinium angustifolium*  
Varney, E.H., 1957
- V. VACCINIUM STUNT Wilcox 1942  
*Vaccinium angustifolium*  
Demaree, J.B., 1946  
*Vaccinium atrococcum*  
Hutchinson, M.T., A.C. Goheen and E.H. Varney, 1955

## VIRUS

- V. VACCINIUM STUNT (cont.)  
*Vaccinium australe*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
*Vaccinium corymbosum*  
 Hutchinson, M. T., A.C. Goheen and E.H. Varney, 1955  
*Vaccinium stamineum*  
 Hutchinson, M. T., A.C. Goheen and E.H. Varney, 1955  
*Vaccinium vacillans*  
 Hutchinson, M. T., A.C. Goheen and E.H. Varney, 1955  
*Vinca rosea*  
 Hutchinson, M. T., A.C. Goheen and E.H. Varney, 1955
- V. VIGNA 1 \*  
*Vigna sinensis*  
 Warid, W.A. and A.G. Plakidas, 1950, 1952
- V. VIGNA 2 \*  
*Vigna sinensis*  
 Warid, W.A. and A.G. Plakidas, 1950, 1952
- V. VIGNA 3 \*  
*Vigna sinensis*  
 Warid, W.A. and A.G. Plakidas, 1950, 1952
- V. VIGNA 3A \*  
*Vigna sinensis*  
 Warid, W.A. and A.G. Plakidas, 1950, 1952
- V. VINCA YELLOWS \*  
*Daucus carota*  
 Maramorosch, Karl, 1956  
*Daucus carota* var. *sativa*  
 Maramorosch, Karl, 1957  
*Vinca rosea*  
 Maramorosch, Karl, 1956
- V. VINE INFECTIOUS DEGENERATION Branas 1948;  
 Doubals and Huglin 1950  
*Vitis rupestris*  
 Hewitt, Wm. B., 1956  
*Vitis vinifera*  
 (K.M. Smith, 1957) R.E. Fitzpatrick, et al., 1958  
 Hewitt, Wm. B., 1945, 1956
- V. VINE LEAF ROLL Scheu 1936  
*Vitis vinifera*  
 Harmon, F.N. and J.H. Weinberger, 1956
- V. VINE YELLOW MOSAIC Hewitt 1953  
*Vitis vinifera*  
 Hewitt, Wm. B. and Charles J. Delp, 1953
- V. (VINE) YELLOW VEIN \*  
*Vitis vinifera*  
 Hewitt, Wm. B., 1956
- V. WALNUT BROOMING DISEASE \*  
*Juglans cinerea*  
 Hutchins, Lee M. and Horace V. Wester, 1947  
*Juglans cordiformis* var. *ailantifolia*  
 Hutchins, Lee M. and Horace V. Wester, 1947  
*Juglans nigra*  
 Hutchins, Lee M. and Horace V. Wester, 1947
- V. WATERMELON MOSAIC Anderson 1954  
*Citrullus vulgaris*  
 Anderson, C.W., 1952, 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Pound, Glenn S., 1949  
 Walker, M.N., 1933  
*Citrullus vulgaris* var. *citroides*  
 Anderson, C.W., 1954  
*Cucumis melo*  
 Anderson, C.W., 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
 Pound, Glenn S., 1949  
*Cucumis melo* var. *reticulatus*  
 Anderson, C.W., 1952

## VIRUS

- V. WATERMELON MOSAIC (cont.)  
*Cucumis sativus*  
 Anderson, C.W., 1952, 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Cucurbita maxima*  
 Anderson, C.W., 1952, 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Cucurbita moschata*  
 Anderson, C.W., 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Cucurbita okeechobeensis*  
 Anderson, C.W., 1954  
*Cucurbita pepo*  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Cucurbita pepo* var. *medullosa* \*  
 Anderson, C.W., 1954  
*Cyclanthera pedata*  
 Anderson, C.W., 1954  
*Lagenaria siceria* (*Lagenaria leucantha*)  
 Anderson, C.W., 1954  
*Luffa aegyptiaca* (*Luffa cylindrica*)  
 Anderson, C.W., 1954  
*Melothria pendula*  
 Anderson, C.W., 1954  
*Melothria* spp.  
 Anderson, C.W., 1952  
*Nicotiana tabacum*  
 Pound, Glenn S., 1949  
*Phaseolus vulgaris*  
 Pound, Glenn S., 1949  
*Pisum sativum*  
 Pound, Glenn S., 1949
- V. WATSONIA MOSAIC \*  
*Tritonia crocata*  
 Smith, Floyd F. and Philip Brierley, 1944  
*Watsonia marginata*  
 Smith, Floyd F. and Philip Brierley, 1944
- V. WESTERN WATERMELON MOSAIC Freitag 1952  
*Citrullus vulgaris*  
 Freitag, J.H., 1952
- V. WHEAT SPOT MOSAIC \*  
*Eragrostis cilianensis*  
 Slykhuis, John T., 1956  
*Hordeum vulgare*  
 Slykhuis, John T., 1956  
*Setaria italica*  
 Slykhuis, John T., 1956  
*Setaria verticillata*  
 Slykhuis, John T., 1956  
*Setaria viridis*  
 Slykhuis, John T., 1956  
*Triticum aestivum*  
 Slykhuis, John T., 1956  
*Triticum dicoccum*  
 Slykhuis, John T., 1956  
*Triticum durum*  
 Slykhuis, John T., 1956  
*Triticum timopheevi*  
 Slykhuis, John T., 1956  
*Zea mays*  
 Slykhuis, John T., 1956
- V. WHEAT STREAK MOSAIC McKinney 1944, 1953  
*Aegilops crassa*  
 McKinney, H.H. and Hurley Fellows, 1951  
*Aegilops cylindrica*  
 McKinney, H.H. and Hurley Fellows, 1951  
*Aegilops ovata*  
 McKinney, H.H. and Hurley Fellows, 1951  
*Aegilops triuncialis*  
 McKinney, H.H. and Hurley Fellows, 1951  
*Aegilops ventricosa*  
 McKinney, H.H. and Hurley Fellows, 1951  
*Agropyron elongatum*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron hybrid*  
 Sill, W.H., Jr., 1956  
*Agropyron intermedium*  
 McKinney, H.H. and W.J. Sando, 1951

## VIRUS

## V. WHEAT STREAK MOSAIC (cont.)

- Agropyron lasianthum*  
McKinney, H.H. and W.J. Sando, 1951
- Agropyron pungens*  
McKinney, H.H. and W.J. Sando, 1951
- Agropyron trachycaulum*  
McKinney, H.H. and W.J. Sando, 1951
- Agropyron ugamicum*  
McKinney, H.H. and W.J. Sando, 1951
- Avena byzantina*  
McKinney, H.H., 1949
- Avena fatua*  
Slykhuis, John T., 1955
- Avena sativa*  
Finley, A.M., 1957  
Houston, Byron R. and John W. Oswald, 1952  
McKinney, H.H., 1949  
Slykhuis, J. T., 1952, 1955
- Avena sativa var. orientalis*  
McKinney, H.H., 1949
- Avena spp.*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Bouteloua hirsuta*  
McKinney, H.H. and Hurley Fellows, 1951
- Bromus japonicus*  
McKinney, H.H. and Hurley Fellows, 1951  
Slykhuis, J. T., 1952, 1955
- Bromus secalinus*  
Slykhuis, J. T., 1952, 1955
- Bromus tectorum*  
Slykhuis, J. T., 1952, 1955
- Digitaria ischaemum*  
McKinney, H.H. and Hurley Fellows, 1951  
Meiners, Jack P. and H.H. McKinney, 1954
- Digitaria sanguinalis*  
Slykhuis, J. T., 1952, 1955
- Echinochloa crus-galli*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952, 1955
- Elymus canadensis*  
McKinney, H.H. and Hurley Fellows, 1951  
Slykhuis, John T., 1955
- Elymus condensatus*  
McKinney, H.H. and Hurley Fellows, 1951
- Elymus giganteus*  
McKinney, H.H. and Hurley Fellows, 1951
- Elymus virginicus*  
McKinney, H.H. and Hurley Fellows, 1951
- Eragrostis cilianensis (Eragrostis major)*  
Slykhuis, J. T., 1952, 1955
- Eragrostis trichodes*  
McKinney, H.H. and Hurley Fellows, 1951
- Euchlaena mexicana*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Haynaldia villosa \**  
McKinney, H.H. and Hurley Fellows, 1951
- Hordeum gussoneanum*  
McKinney, H.H. and Hurley Fellows, 1951
- Hordeum murinum*  
McKinney, H.H. and Hurley Fellows, 1951
- Hordeum spp.*  
McKinney, H.H. and Hurley Fellows, 1951  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Hordeum vulgare*  
Finley, A.M., 1957  
McKinney, H.H., 1949, 1956  
Slykhuis, J. T., 1952, 1954, 1955
- Oryzopsis hymenoides*  
McKinney, H.H. and Hurley Fellows, 1951  
Slykhuis, John T., 1954, 1955
- Panicum capillare*  
Slykhuis, J. T., 1952, 1955
- Panicum miliaceum*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, John T., 1955
- Panicum ramosum*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Phalaris paradoxa*  
McKinney, H.H. and Hurley Fellows, 1951
- Poa bulbosa*  
McKinney, H.H. and Hurley Fellows, 1951
- Poa compressa*  
McKinney, H.H. and Hurley Fellows, 1951

## VIRUS

## V. WHEAT STREAK MOSAIC (cont.)

- Poa compressa*  
Slykhuis, John T., 1954, 1955
- Poa stenantha*  
McKinney, H.H. and Hurley Fellows, 1951
- Saccharum officinarum*  
McKinney, H.H., 1949
- Secale cereale*  
McKinney, H.H. and W.J. Sando, 1951  
Slykhuis, John T., 1954, 1955
- Secale cereale subsp. ancestrale \**  
McKinney, H.H. and W.J. Sando, 1951
- Secale montanum*  
McKinney, H.H. and W.J. Sando, 1951
- Secale spp.*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955
- Setaria italica*  
Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, John T., 1955
- Setaria verticillata*  
Slykhuis, J. T., 1952, 1955
- Setaria viridis*  
Finley, A.M., 1957  
McKinney, H.H. and Hurley Fellows, 1951  
Slykhuis, John T., 1951, 1952, 1955
- Stipa robusta*  
McKinney, H.H. and Hurley Fellows, 1951
- Triticum aegilopoides \**  
McKinney, H.H. and W.J. Sando, 1951
- Triticum aestivum*  
Andrews, J.E. and J. T. Slykhuis, 1956  
Atkinson, R. E., 1949  
Bellingham, Roscoe C., Hurley Fellows and Webster H. Sill, Jr., 1957  
Fellows, Hurley and John W. Schmidt, 1953  
Fellows, H., W.H. Sill, Jr. and H.H. McKinney, 1952  
Finley, A.M., 1957  
Lal, S.B. and W.H. Sill, Jr., 1957  
Lal, S.B., W.H. Sill, Jr., Maria S. Del Rosario and J. M. Kainski, 1957  
McKinney, H.H., 1949, 1956  
McKinney, H.H. and W.J. Sando, 1951  
Meiners, Jack P. and H.H. McKinney, 1954  
Sill, W.H., Jr., 1952, 1953  
Sill, W.H., Jr. and H. Fellows, 1953  
Slykhuis, J. T., 1953, 1954, 1955
- Triticum dicoccoides*  
McKinney, H.H. and W.J. Sando, 1951
- Triticum dicoccoides var. strausianum \**  
McKinney, H.H. and W.J. Sando, 1951
- Triticum dicoccum*  
McKinney, H.H., 1949  
McKinney, H.H. and W.J. Sando, 1951  
Slykhuis, John T., 1955
- Triticum durum*  
McKinney, H.H. and W.J. Sando, 1951  
Slykhuis, John T., 1955
- Triticum monococcum*  
McKinney, H.H. and W.J. Sando, 1951
- Triticum monococcum var. flavescens \**  
McKinney, H.H. and W.J. Sando, 1951
- Triticum monococcum var. laetissimum \**  
McKinney, H.H. and W.J. Sando, 1951
- Triticum orientale*  
McKinney, H.H. and W.J. Sando, 1951
- Triticum persicum var. stramineum \**  
McKinney, H.H. and W.J. Sando, 1951
- Triticum polonicum*  
McKinney, H.H., 1949  
McKinney, H.H. and W.J. Sando, 1951
- Triticum spelta*  
McKinney, H.H., 1949  
McKinney, H.H. and W.J. Sando, 1951
- Triticum sphaerococcum*  
McKinney, H.H. and W.J. Sando, 1951
- Triticum timopheevi*  
McKinney, H.H. and W.J. Sando, 1951  
Slykhuis, John T., 1955
- Triticum turgidum*  
McKinney, H.H., 1949  
McKinney, H.H. and W.J. Sando, 1951

## VIRUS

- V. WHEAT STREAK MOSAIC (cont.)  
*Triticum vulgare*  
 Slykhuis, J. T., 1952  
*Zea mays*  
 Finley, A. M., 1957  
 McKinney, H. H., 1949  
 Meiners, Jack P. and H. H. McKinney, 1954  
 Sill, W. H., Jr., 1956  
 Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, John T., 1955  
*Zea mays* var. *saccharata*  
 McKinney, H. H., 1949
- V. WHEAT STRIATE MOSAIC Slykhuis 1952  
*Avena sativa*  
 Slykhuis, J. T., 1953  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Eragrostis cilianensis* (*Eragrostis major*)  
 Slykhuis, J. T., 1952, 1953  
*Hordeum vulgare*  
 Slykhuis, J. T., 1953  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Lolium multiflorum*  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Lolium perenne*  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Panicum capillare*  
 Slykhuis, J. T., 1952, 1953  
*Secale cereale*  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Triticum aestivum*  
 Slykhuis, John T. and Marion A. Watson, 1958  
*Triticum dicoccum*  
 Slykhuis, J. T., 1953  
*Triticum durum*  
 Slykhuis, J. T., 1953  
*Triticum vulgare*  
 Slykhuis, J. T., 1952, 1953
- V. WILD CUCUMBER MOSAIC \*  
*Cucurbita maxima*  
 Freitag, J. H., 1941  
*Echinocystis lobata*  
 Fernow, Karl Hermann, 1925  
*Nicandra physalodes*  
 Fernow, Karl Hermann, 1925  
*Nicotiana glutinosa*  
 Fernow, Karl Hermann, 1925  
*Sicyos angulatus*  
 Freitag, J. H., 1952
- V. WISCONSIN PEA STREAK Hagedorn and Walker 1949  
*Glycine max*  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Lathyrus hirsutus*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Lathyrus odoratus*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Medicago orbicularis*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Melilotus alba*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Melilotus officinalis*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Skotland, C. B., 1953  
 Skotland, C. B. and D. J. Hagedorn, 1954  
*Pisum sativum*  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Skotland, C. B., 1953  
 Skotland, C. B. and D. J. Hagedorn, 1954, 1955  
*Pisum sativum* var. *arvense*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Trifolium hybridum*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Skotland, C. B., 1953  
*Trifolium incarnatum*  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Trifolium pratense*  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954

## VIRUS

- V. WISCONSIN PEA STREAK (cont.)  
*Trifolium pratense*  
 Hanson, E. W. and D. J. Hagedorn, 1952  
 Skotland, C. B., 1953  
 Skotland, C. B. and D. J. Hagedorn, 1954  
*Trifolium repens*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Trigonella foenum-graecum*  
 Hagedorn, D. J., 1952  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Vicia atropurpurea*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Vicia faba* var. *major* \*  
 Hagedorn, D. J. and J. C. Walker, 1954  
*Vicia faba* var. *minor* \*  
 Hagedorn, D. J. and J. C. Walker, 1954  
 Skotland, C. B. and D. J. Hagedorn, 1954  
*Vicia grandiflora*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Vicia monantha*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Vicia villosa*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954
- V. WINTER WHEAT MOSAIC Zazhurilo and Sitnikova 1939  
*Triticum aestivum*  
 Webb, Robert W., 1927, 1928
- V. WISTERIA MOSAIC \*  
*Wisteria floribunda*  
 Brierley, Philip and Paul Lorentz, 1957  
*Wisteria sinensis*  
 Brierley, Philip and Paul Lorentz, 1957  
*Wisteria* spp.  
 Brierley, Philip and Paul Lorentz, 1957
- V. YAM MOSAIC \*  
*Capsicum frutescens* (*Capsicum annuum*)  
 Adsuar, J., 1955  
*Cucumis sativus*  
 Adsuar, J., 1955  
*Dioscorea rotundata*  
 Adsuar, J., 1955  
*Nicotiana tabacum*  
 Adsuar, J., 1955





## VIRUS

- V. ABACA BUNCHY TOP Ocfemia 1930  
*Musa balbisiana*  
 Bernardo, Fernando A. and Dioscoro L. Umali, 1956  
*Musa cavendishii*  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
*Musa paradisiaca* subsp. *sapientum* var. *cineria*  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
*Musa paradisiaca* subsp. *sapientum* var. *lacatan*  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
*Musa paradisiaca* subsp. *sapientum* var. *suaveolens*  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
*Musa sapientum* var. *compressa* \*  
 Ocfemia, G. O. and Gabino G. Buhay, 1934  
*Musa textilis* x *Musa balbisiana*  
 Umali, D. L., F. A. Bernardo and G. O. Ocfemia, 1956

## V. ABUTILON INFECTIOUS VARIATION ((Morren 1869)) Brierley 1944

- Abelmoschus esculentus*  
 Bird, Julio, 1958  
*Boehmeria nivea*  
 Silberschmidt, Karl M., 1948  
*Chamaesyce hypericifolia*  
 Bird, Julio, 1958  
*Crotalaria striata*  
 Bird, Julio, 1958  
*Datura stramonium*  
 Bird, Julio, 1958  
*Euphorbia prunifolia*  
 Bird, Julio, 1958  
 Costa, A. S. and C. W. Bennett, 1950  
*Gossypium hirsutum*  
 Bird, Julio, 1958  
*Ipomoea batata*  
 Bird, Julio, 1958  
*Ipomoea quinquefolia*  
 Bird, Julio, 1958  
*Jatropha gossypifolia*  
 Bird, Julio, 1958  
*Malachra capitata*  
 Bird, Julio, 1958  
*Nicotiana tabacum*  
 Silberschmidt, K. and L. R. Tommasi, 1956  
*Phaseolus vulgaris*  
 Bird, Julio, 1958  
*Physalis angulata*  
 Bird, Julio, 1958  
*Sida rhombifolia*  
 Silberschmidt, Karl M., 1948  
*Triumfetta lappula*  
 Bird, Julio, 1958  
*Triumfetta semitriloba*  
 Bird, Julio, 1958  
*Zinnia elegans*  
 Bird, Julio, 1958

## V. AGROPYRON MOSAIC McKinney 1944

- Agropyron ciliare* \*  
 Slykhuis, J. T., 1952  
*Agropyron cristatum*  
 Slykhuis, J. T., 1952  
*Agropyron dasystachyum*  
 Slykhuis, J. T., 1952  
*Agropyron desertorum*  
 Slykhuis, J. T., 1952  
*Agropyron trachycaulum*  
 Slykhuis, J. T., 1952  
*Agropyron trichophorum*  
 Slykhuis, J. T., 1952  
*Avena fatua*  
 Slykhuis, J. T., 1952  
*Avena sativa*  
 Slykhuis, J. T., 1952  
*Bromus inermis*  
 Slykhuis, J. T., 1952  
*Bromus japonicus*  
 Slykhuis, J. T., 1952  
*Bromus secalinus*  
 Slykhuis, J. T., 1952  
*Bromus tectorum*  
 Slykhuis, J. T., 1952

## VIRUS

## V. AGROPYRON MOSAIC (cont.)

- Digitaria sanguinalis*  
 Slykhuis, J. T., 1952  
*Echinochloa crus-galli*  
 Slykhuis, J. T., 1952  
*Eragrostis cilianensis* (*Eragrostis major*)  
 Slykhuis, J. T., 1952  
*Hordeum jubatum*  
 Slykhuis, J. T., 1952  
*Hordeum vulgare*  
 Slykhuis, J. T., 1952  
*Panicum capillare*  
 Slykhuis, J. T., 1952  
*Panicum miliaceum*  
 Slykhuis, J. T., 1952  
*Phalaris arundinacea*  
 Slykhuis, J. T., 1952  
*Pheum pratense*  
 Slykhuis, J. T., 1952  
*Poa pratensis*  
 Slykhuis, J. T., 1952  
*Setaria italica*  
 Slykhuis, J. T., 1952  
*Setaria lutescens*  
 Slykhuis, J. T., 1952  
*Setaria verticillata*  
 Slykhuis, J. T., 1952  
*Setaria viridis*  
 Slykhuis, J. T., 1952  
*Sorghum vulgare*  
 Slykhuis, J. T., 1952  
*Zea mays*  
 Slykhuis, J. T., 1952

## V. ALSIKE CLOVER MOSAIC Zaumeyer and Wade 1935

- Crotalaria retusa*  
 Zaumeyer, W. J., 1940  
*Crotalaria spectabilis*  
 Zaumeyer, W. J., 1940  
*Datura stramonium*  
 Zaumeyer, W. J., 1940  
*Glycine max*  
 Zaumeyer, W. J., 1940  
*Nicotiana glauca*  
 Zaumeyer, W. J., 1940  
*Nicotiana glutinosa*  
 Zaumeyer, W. J., 1940  
*Nicotiana tabacum*  
 Zaumeyer, W. J., 1940  
*Petunia hybrida*  
 Zaumeyer, W. J., 1940  
*Phaseolus aureus*  
 Zaumeyer, W. J., 1940  
*Phaseolus lunatus*  
 Zaumeyer, W. J., 1940  
*Trifolium pratense*  
 Zaumeyer, W. J., 1940  
*Trifolium repens*  
 Zaumeyer, W. J., 1940  
*Vicia sativa*  
 Zaumeyer, W. J., 1940

## V. ANEMONE BROWN RING \*

- Ageratum conyzoides*  
 Hollings, M., 1958  
*Alonsoa warscewiczii*  
 Hollings, M., 1958  
*Antirrhinum majus*  
 Hollings, M., 1958  
*Apium graveolens*  
 Hollings, M., 1958  
*Beta vulgaris*  
 Hollings, M., 1958  
*Brassica pekinensis*  
 Hollings, M., 1958  
*Brassica rapa*  
 Hollings, M., 1958  
*Callistephus chinensis*  
 Hollings, M., 1958  
*Celosia argentea*  
 Hollings, M., 1958  
*Chrysanthemum morifolium*  
 Hollings, M., 1958

## VIRUS

## V. ANEMONE BROWN RING \* (cont.)

- Convolvulus tricolor*  
 Hollings, M., 1958  
*Cucumis sativus*  
 Hollings, M., 1958  
*Datura stramonium*  
 Hollings, M., 1958  
*Dianthus barbatus*  
 Hollings, M., 1958  
*Fagopyrum esculentum*  
 Hollings, M., 1958  
*Fumaria officinalis*  
 Hollings, M., 1958  
*Hyoscyamus niger*  
 Hollings, M., 1958  
*Lactuca sativa*  
 Hollings, M., 1958  
*Lythrum salicaria*  
 Hollings, M., 1958  
*Nicotiana affinis*  
 Hollings, M., 1958  
*Nicotiana clevelandi*  
 Hollings, M., 1958  
*Nicotiana glutinosa*  
 Hollings, M., 1958  
*Nicotiana rustica*  
 Hollings, M., 1958  
*Nicotiana tabacum*  
 Hollings, M., 1958  
*Papaver somniferum*  
 Hollings, M., 1958  
*Passiflora caerulea*  
 Hollings, M., 1958  
*Petunia hybrida*  
 Hollings, M., 1958  
*Phaseolus coccineus*  
 Hollings, M., 1958  
*Phaseolus vulgaris*  
 Hollings, M., 1958  
*Phlox drummondii*  
 Hollings, M., 1958  
*Physalis floridana*  
 Hollings, M., 1958  
*Phytolacca americana*  
 Hollings, M., 1958  
*Plantago lanceolata*  
 Hollings, M., 1958  
*Primula malacoides*  
 Hollings, M., 1958  
*Reseda odorata*  
 Hollings, M., 1958  
*Senecio vulgaris*  
 Hollings, M., 1958  
*Spinacia oleracea*  
 Hollings, M., 1958  
*Stellaria media*  
 Hollings, M., 1958  
*Trifolium repens*  
 Hollings, M., 1958  
*Tropaeolum majus*  
 Hollings, M., 1958  
*Verbena hybrida*  
 Hollings, M., 1958  
*Vicia faba*  
 Hollings, M., 1958  
*Vigna sinensis*  
 Hollings, M., 1958  
*Zinnia elegans*  
 Hollings, M., 1958
- V. ANEMONE MOSAIC \*
- Anchusa azurea*  
 Hollings, M., 1957  
*Antirrhinum majus*  
 Hollings, M., 1957  
*Apium graveolens* var. *dulce*  
 Hollings, M., 1957  
*Beta vulgaris*  
 Hollings, M., 1957  
*Brassica oleracea* var. *acephala*  
 Hollings, M., 1957  
*Brassica oleracea* var. *botrytis*  
 Hollings, M., 1957

## VIRUS

## V. ANEMONE MOSAIC \* (cont.)

- Brassica oleracea* var. *caulorapa*  
 Hollings, M., 1957  
*Brassica oleracea* var. *gemmifera*  
 Hollings, M., 1957  
*Callistephus chinensis*  
 Hollings, M., 1957  
*Canna indica*  
 Hollings, M., 1957  
*Capsicum frutescens* (*Capsicum annum*)  
 Hollings, M., 1957  
*Cheiranthus cheiri*  
 Hollings, M., 1957  
*Chrysanthemum morifolium*  
 Hollings, M., 1957  
*Convolvulus sepium*  
 Hollings, M., 1957  
*Cucumis sativus*  
 Hollings, M., 1957  
*Dahlia pinnata*  
 Hollings, M., 1957  
*Datura stramonium*  
 Hollings, M., 1957  
*Dianthus barbatus*  
 Hollings, M., 1957  
*Echium vulgare*  
 Hollings, M., 1957  
*Epilobium montanum*  
 Hollings, M., 1957  
*Euphorbia peplus*  
 Hollings, M., 1957  
*Helichrysum bracteatum*  
 Hollings, M., 1957  
*Ipomoea tricolor*  
 Hollings, M., 1957  
*Lactuca sativa*  
 Hollings, M., 1957  
*Lobularia maritima*  
 Hollings, M., 1957  
*Lycopersicon esculentum*  
 Hollings, M., 1957  
*Melilotus alba*  
 Hollings, M., 1957  
*Myosotis sylvatica*  
 Hollings, M., 1957  
*Nasturtium officinale*  
 Hollings, M., 1957  
*Pelargonium domesticum*  
 Hollings, M., 1957  
*Phaseolus vulgaris*  
 Hollings, M., 1957  
*Phlox drummondii*  
 Hollings, M., 1957  
*Pisum sativum*  
 Hollings, M., 1957  
*Ranunculus acris*  
 Hollings, M., 1957  
*Ranunculus ficaria*  
 Hollings, M., 1957  
*Ranunculus repens*  
 Hollings, M., 1957  
*Raphanus sativus*  
 Hollings, M., 1957  
*Salvia splendens*  
 Hollings, M., 1957  
*Solanum tuberosum*  
 Hollings, M., 1957  
*Spinacia oleracea*  
 Hollings, M., 1957  
*Trifolium repens*  
 Hollings, M., 1957  
*Tropaeolum majus*  
 Hollings, M., 1957  
*Vigna sinensis*  
 Hollings, M., 1957

V. APPLE MOSAIC Khristov 1934 ((May be identical with V. Plum line pattern Gilmer 1956.))

- Cuscuta campestris*  
 Yarwood, C. E., 1955  
*Cuscuta subinclusa*  
 Yarwood, C. E., 1955  
 Yarwood, C. E. and H. E. Thomas, 1954

## VIRUS

- V. ASCLEPIAS YELLOWS \*  
*Cuscuta campestris*  
 Kunkel, L.O., 1950
- V. ASTER YELLOWS Kunkel 1926, 1936  
*Apium graveolens* var. *dulce*  
 Severin, Henry H.P., 1934  
*Beta vulgaris*  
 Severin, Henry H.P., 1929  
*Callistephus chinensis*  
 Brierley, Philip and Floyd F. Smith, 1957  
*Centauria cyanus*  
 Kunkel, L.O., 1928  
*Cuscuta campestris*  
 Brierley, Philip and Floyd F. Smith, 1957  
 Fulton, J.P., 1957  
 Johnson, Folke, 1941  
*Cuscuta* spp.  
 Self, R.L. and H.M. Darling, 1949  
*Dianthus caryophyllus*  
 Smith, Floyd F. and Philip Brierley, 1953  
*Lactuca bourgaei*  
 Tompson, Ross C., 1944  
*Lactuca marschallii* \*  
 Tompson, Ross C., 1944  
*Lactuca tatarica*  
 Tompson, Ross C., 1944  
*Parthenium argentatum*  
 Severin, Henry H.P., 1945  
*Plantago lanceolata*  
 Kunkel, L.O., 1928  
*Prunus persica* (*Amygdalus persica*)  
 McClintock, J.A., 1931  
*Rosa* spp.  
 Brierley, Philip and Floyd F. Smith, 1940  
*Secale cereale*  
 Black, L.M., 1941  
*Spinacia oleracea*  
 Severin, H.H.P., 1928
- V. BARLEY STRIPE MOSAIC McKinney 1953; Hagborg 1954  
*Agropyron ciliare* \*  
 Slykhuis, J.T., 1952  
*Agropyron cristatum*  
 Slykhuis, J.T., 1952  
*Agropyron dasystachyum*  
 Slykhuis, J.T., 1952  
*Agropyron desertorum*  
 Slykhuis, J.T., 1952  
*Agropyron elongatum*  
 Slykhuis, J.T., 1952  
*Agropyron inerme*  
 Slykhuis, J.T., 1952  
*Agropyron intermedium*  
 Slykhuis, J.T., 1952  
*Agropyron junceum*  
 Slykhuis, J.T., 1952  
*Agropyron pertense*  
 Slykhuis, J.T., 1952  
*Agropyron repens*  
 Slykhuis, J.T., 1952  
*Agropyron rigidum*  
 Slykhuis, J.T., 1952  
*Agropyron trachycaulum*  
 Slykhuis, J.T., 1952  
*Agropyron trichophorum*  
 Slykhuis, J.T., 1952  
*Avena fatua*  
 Slykhuis, J.T., 1952  
*Avena sativa*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 Slykhuis, J.T., 1952  
*Beta vulgaris*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Beta vulgaris* var. *ciela*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Bromus inermis*  
 Slykhuis, J.T., 1952  
*Cucumis sativus*  
 McKinney, H.H., 1953  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Festuca rubra*  
 Slykhuis, J.T., 1952

## VIRUS

- V. BARLEY STRIPE MOSAIC (cont.)  
*Glycine max*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Lycopersicon esculentum*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Medicago sativa*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Phalaris arundinacea*  
 Slykhuis, J.T., 1952  
*Phaseolus vulgaris*  
 McKinney, H.H., 1953  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
*Phleum pratense*  
 Slykhuis, J.T., 1952  
*Poa pratensis*  
 Slykhuis, J.T., 1952  
*Setaria lutescens*  
 Slykhuis, J.T., 1952  
*Sorghum vulgare*  
 Sill, W.H., Jr. and E.D. Hansing, 1955  
 Slykhuis, J.T., 1952
- V. BARLEY YELLOW DWARF Oswald and Houston 1951  
*Agropyron amurense* \*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron cristatum*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*Agropyron elongatum*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron inerme*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron intermedium*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron repens*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron sibiricum*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron smithii*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron trachycaulum*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agropyron trichophorum*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Agrostis alba*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*Agrostis exarata*  
 Oswald, John W. and Byron R. Houston, 1953  
*Agrostis palustris*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Alopecurus arundinaceus*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Alopecurus pratensis*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*Arrhenatherum elatius*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*Beckmannia syzigachne*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Bouteloua gracilis*  
 Oswald, John W. and Byron R. Houston, 1953  
*Bromus inermis*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Deschampsia caespitosa*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Deschampsia danthonioides*  
 Oswald, John W. and Byron R. Houston, 1953  
*Digitaria sanguinalis*  
 Oswald, John W. and Byron R. Houston, 1953  
*Echinochloa crus-galli*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953  
*Elymus canadensis*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Elymus condensatus*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Elymus giganteus*  
 Bruehl, G.W. and H.V. Toko, 1957  
*Elymus glaucus*  
 Bruehl, G.W. and H.V. Toko, 1957  
 Oswald, John W. and Byron R. Houston, 1953

## VIRUS

## V. BARLEY YELLOW DWARF (cont.)

- Elymus junceus*  
Bruehl, G. W. and H. V. Toko, 1957
- Elymus triticoides*  
Bruehl, G. W. and H. V. Toko, 1957
- Holcus lanatus*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Lolium perenne*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Oryzopsis hymenoides*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Paspalum dilatatum*  
Oswald, John W. and Byron R. Houston, 1953
- Phalaris tuberosa*  
Bruehl, G. W. and H. V. Toko, 1957
- Phleum boehmeri*  
Bruehl, G. W. and H. V. Toko, 1957
- Phleum phleoides*  
Bruehl, G. W. and H. V. Toko, 1957
- Phleum pratense*  
Oswald, John W. and Byron R. Houston, 1953
- Poa ampla*  
Bruehl, G. W. and H. V. Toko, 1957
- Poa bulbosa*  
Bruehl, G. W. and H. V. Toko, 1957
- Poa canbyi*  
Bruehl, G. W. and H. V. Toko, 1957
- Poa compressa*  
Bruehl, G. W. and H. V. Toko, 1957
- Poa pratensis*  
Bruehl, G. W. and H. V. Toko, 1957
- Secale cereale*  
Bruehl, G. W. and H. V. Toko, 1955
- Secale montanum*  
Bruehl, G. W. and H. V. Toko, 1957
- Setaria viridis*  
Bruehl, G. W. and H. V. Toko, 1957  
Oswald, John W. and Byron R. Houston, 1953
- Sorghum vulgare*  
Oswald, John W. and Byron R. Houston, 1953
- Stipa cernua*  
Oswald, John W. and Byron R. Houston, 1953
- Zea mays*  
Oswald, John W. and Byron R. Houston, 1953

## V. BAYBERRY YELLOW S (cont.)

- Calendula officinalis*  
Raychaudhuri, S. P., 1953
- Callistephus chinensis*  
Raychaudhuri, S. P., 1953
- Cuscuta campestris*  
Raychaudhuri, S. P., 1952, 1953
- Cuscuta subinclusa*  
Raychaudhuri, S. P., 1953
- Datura stramonium*  
Raychaudhuri, S. P., 1953
- Gomphrena globosa*  
Raychaudhuri, S. P., 1953
- Lycopersicon esculentum*  
Raychaudhuri, S. P., 1953
- Medicago sativa*  
Raychaudhuri, S. P., 1953
- Nicotiana glauca*  
Raychaudhuri, S. P., 1953
- Nicotiana glutinosa*  
Raychaudhuri, S. P., 1953
- Nicotiana rustica*  
Raychaudhuri, S. P., 1953
- Nicotiana tabacum*  
Raychaudhuri, S. P., 1953
- Phaseolus vulgaris*  
Raychaudhuri, S. P., 1953
- Prunus persica* (*Amygdalus persica*)  
Raychaudhuri, S. P., 1953
- Solanum melongena*  
Raychaudhuri, S. P., 1953
- Solanum tuberosum*  
Raychaudhuri, S. P., 1953
- Trifolium incarnatum*  
Raychaudhuri, S. P., 1953

## VIRUS

## V. BAYBERRY YELLOW S (cont.)

- Vaccinium corymbosum*  
Raychaudhuri, S. P., 1953
- Vaccinium macrocarpon* (*Oxycoccus macrocarpon*)  
Raychaudhuri, S. P., 1953
- Vicia faba*  
Raychaudhuri, S. P., 1953
- Zinnia multiflora*  
Raychaudhuri, S. P., 1953
- V. BEAN COMMON MOSAIC
- Cajanus indicus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Canavalia ensiformis*  
Reddick, D. and V. B. Stewart, 1919
- Canavalia gladiata*  
Nelson, Ray, 1932  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Cicer arietinum*  
Reddick, D. and V. B. Stewart, 1919  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Cucumis sativus*  
Ainsworth, G. C., 1940  
Doolittle, S. P. and W. W. Gilbert, 1918
- Dolichos lablab*  
Nelson, Ray, 1932  
Reddick, D. and V. B. Stewart, 1919  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Glycine max*  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Lactuca sativa* var. *capitata*  
Ainsworth, G. C., 1940
- Lathyrus odoratus*  
Ainsworth, G. C., 1940  
Doolittle, S. P. and F. R. Jones, 1925  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1933, 1935
- Lens esculenta*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Lupinus albus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Lycopersicon esculentum*  
Ainsworth, G. C., 1940
- Medicago sativa*  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Mellilotus alba*  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Mellilotus indica*  
Snyder, W. C., 1942
- Mucuna deeringianum*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Nicotiana glutinosa*  
Grogan, Raymond G. and J. C. Walker, 1948  
Snyder, W. C., 1942
- Nicotiana tabacum*  
Snyder, W. C., 1942
- Phaseolus aconitifolius*  
Reddick, D. and V. B. Stewart, 1919
- Phaseolus acutifolius* var. *latifolius*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus angularis*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus aureus*  
Nelson, Ray, 1932  
Reddick, D. and V. B. Stewart, 1919  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus calcaratus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus lunatus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus lunatus* f. *macrocarpus*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Phaseolus mungo*  
Zaunmeyer, W. J. and B. L. Wade, 1935
- Pisum sativum*  
Ainsworth, G. C., 1940  
Doolittle, S. P. and F. R. Jones, 1925  
Snyder, W. C., 1942  
Zaunmeyer, W. J. and B. L. Wade, 1933, 1935

## VIRUS

## V. BEAN COMMON MOSAIC (cont.)

- Pisum sativum* var. *saccharatum*  
Pierce, W. H., 1935
- Trifolium pratense*  
Ainsworth, G. C., 1940  
Snyder, W. C., 1942  
Zaumeyer, W. J. and B. L. Wade, 1935
- Trifolium repens*  
Ainsworth, G. C., 1940  
Snow, Gordon F., 1955  
Snyder, W. C., 1942  
Zaumeyer, W. J. and B. L. Wade, 1935
- Vicia americana*  
Zaumeyer, W. J. and B. L. Wade, 1935
- Vicia faba*  
Zaumeyer, W. J. and B. L. Wade, 1935
- Vigna cylindrica* (*Vigna catjang*)  
Snyder, W. C., 1942
- Vigna sesquipedalis*  
Zaumeyer, W. J. and B. L. Wade, 1935
- Vigna sinensis*  
Reddick, D. and V. B. Stewart, 1919  
Zaumeyer, W. J. and B. L. Wade, 1935
- V. BEAN MONTANA \*
- Medicago sativa*  
Afanasiev, M. M. and H. E. Morris, 1946
- Trifolium hybridum*  
Afanasiev, M. M. and H. E. Morris, 1946
- Trifolium pratense*  
Afanasiev, M. M. and H. E. Morris, 1946
- Trifolium repens*  
Afanasiev, M. M. and H. E. Morris, 1946
- V. BEAN MOSAIC 3 \*
- Lathyrus odoratus*  
Zaumeyer, W. J. and B. L. Wade, 1935
- Pisum sativum*  
Zaumeyer, W. J. and B. L. Wade, 1935
- V. BEAN PODMOTTLE Zaumeyer and Thomas 1948
- Beta vulgaris*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Brassica oleracea* var. *botrytis*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Callistephus chinensis*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Capsicum frutescens* (*Capsicum annuum*)  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Cucumis sativus*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Datura stramonium*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Dianthus superbus*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Lactuca sativa*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Lycopersicon esculentum*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Melilotus alba*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Nicotiana glutinosa*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Nicotiana tabacum*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Pelargonium hortorum*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Phaseolus angularis*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Phaseolus aureus*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Phaseolus coccineus*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Phaseolus lunatus* f. *macrocarpus*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Phaseolus mungo*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Pisum sativum*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Silene compacta*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Trifolium incarnatum*  
Zaumeyer, W. J. and H. Rex Thomas, 1948

## VIRUS

## V. BEAN POD MOTTLE (cont.)

- Vicia faba*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Vigna sesquipedalis*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Vigna sinensis*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- Vinca rosea*  
Zaumeyer, W. J. and H. Rex Thomas, 1948
- V. BEAN SOUTHERN MOSAIC
- Beta vulgaris*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Brassica rapa*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Capsicum frutescens* (*Capsicum annuum*)  
Zaumeyer, W. J. and L. L. Harter, 1943
- Cicer arietinum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Crotalaria spectabilis*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Cucumis sativus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Datura stramonium*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Glycine max*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Lupinus albus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Lupinus luteus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Lycopersicon esculentum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Medicago sativa*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Melilotus alba*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Mucuna deeringianum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Nicotiana glutinosa*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Nicotiana tabacum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Petunia hybrida*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Phaseolus angularis*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Phaseolus aureus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Phaseolus coccineus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Phaseolus lunatus* f. *macrocarpus*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Phaseolus mungo*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Pisum sativum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Trifolium incarnatum*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Trifolium pratense*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Trifolium repens*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vicia cylindrica* \*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vicia faba*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vicia sativa*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vicia villosa*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vigna sesquipedalis*  
Zaumeyer, W. J. and L. L. Harter, 1943
- Vigna sinensis*  
Zaumeyer, W. J. and L. L. Harter, 1943
- V. BEAN YELLOW MOSAIC Pierce 1934
- Antirrhinum majus*  
Thomas, H. Rex and W. J. Zaumeyer, 1953
- Arachis hypogaea*  
Grogan, Raymond G. and J. C. Walker, 1948
- Belamcanda chinensis*  
Brierley, Philip and Floyd F. Smith, 1948

## VIRUS

## V. BEAN YELLOW MOSAIC (cont.)

- Beta vulgaris*  
Conover, Robert A., 1948
- Brassica oleracea* var. *capitata*  
Thomas, H. Rex and W.J. Zaumeyer, 1953
- Cajanus indicus*  
Zaumeyer, W.J. and B.L. Wade, 1935
- Canavalia gladiata*  
Zaumeyer, W.J. and B.L. Wade, 1935
- Crotalaria retusa*  
Zaumeyer, W.J., 1940
- Crotalaria spectabilis*  
Conover, Robert A., 1948
- Cucumis sativus*  
Ainsworth, G.C., 1940  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Datura stramonium*  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1940
- Dolichos lablab*  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Glycine max*  
Baggett, James R., 1957  
Grogan, Raymond G. and J.C. Walker, 1948  
Johnson, James, 1942  
Zaumeyer, W.J., 1940, 1952  
Zaumeyer, W.J. and B.L. Wade, 1935
- Lactuca sativa* var. *capitata*  
Ainsworth, G.C., 1940
- Lathyrus odoratus*  
Doolittle, S.P. and F.R. Jones, 1925
- Lespedeza striata*  
Conover, Robert A., 1948
- Lupinus albus*  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Lupinus angustifolius*  
Conover, Robert A., 1948
- Lupinus luteus*  
Conover, Robert A., 1948
- Lycopersicon esculentum*  
Ainsworth, G.C., 1940  
Conover, Robert A., 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Thomas, H. Rex and W.J. Zaumeyer, 1953
- Medicago hispida*  
Grogan, Raymond G. and J.C. Walker, 1948
- Medicago sativa*  
Afanasiev, M.M. and H.E. Morris, 1952  
Conover, Robert A., 1948  
Elliott, J.A., 1921  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Houston, Byron R. and John W. Oswald, 1953  
Pierce, W.H., 1935  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Melilotus alba*  
Baggett, James R., 1957  
Grogan, Raymond G. and J.C. Walker, 1948  
Zaumeyer, W.J. and B.L. Wade, 1935
- Melilotus officinalis*  
Grogan, Raymond G. and J.C. Walker, 1948
- Mucuna deeringianum*  
Zaumeyer, W.J. and B.L. Wade, 1935
- Nicotiana glauca*  
Zaumeyer, W.J., 1940
- Nicotiana glutinosa*  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1940  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Nicotiana rustica*  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954
- Nicotiana tabacum*  
Conover, Robert A., 1948  
Grogan, Raymond G. and J.C. Walker, 1948

## VIRUS

## V. BEAN YELLOW MOSAIC (cont.)

- Nicotiana tabacum*  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Pierce, W.H., 1935  
Zaumeyer, W.J., 1940
- Petunia hybrida*  
Pierce, W.H., 1935  
Zaumeyer, W.J., 1940
- Phaseolus acutifolius* var. *latifolius*  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus angularis*  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus aureus*  
Conover, Robert A., 1948  
Zaumeyer, W.J., 1940
- Phaseolus calcaratus*  
Pierce, W.H., 1934  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus coccineus*  
Baggett, James R., 1956  
Conover, Robert A., 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Phaseolus limensis*  
Pierce, W.H., 1934
- Phaseolus lunatus*  
Conover, Robert A., 1948  
Grogan, Raymond G. and J.C. Walker, 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1940  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus lunatus* f. *macrocarpus*  
Pierce, W.H., 1934  
Zaumeyer, W.J. and B.L. Wade, 1935
- Phaseolus mungo*  
Conover, Robert A., 1948  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Pisum sativum*  
Afanasiev, M.M. and H.E. Morris, 1952  
Doolittle, S.P. and F.R. Jones, 1925  
Zaumeyer, W.J., 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Spinacia oleracea*  
Thomas, H. Rex and W.J. Zaumeyer, 1953
- Trifolium hybridum*  
Afanasiev, M.M. and H.E. Morris, 1952
- Trifolium incarnatum*  
Zaumeyer, W.J., 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Trifolium pratense*  
Afanasiev, M.M. and H.E. Morris, 1952  
Ainsworth, G.C., 1940  
Baggett, James R., 1957  
Grogan, Raymond G. and J.C. Walker, 1948  
Thomas, H. Rex and W.J. Zaumeyer, 1953  
Zaumeyer, W.J., 1940, 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953
- Trifolium repens*  
Afanasiev, M.M. and H.E. Morris, 1952  
Baggett, James R., 1957  
Elliott, J.A., 1921  
Grogan, Raymond G. and J.C. Walker, 1948  
Hagedorn, D.J. and J.C. Walker, 1950, 1954  
Pierce, W.H., 1935  
Zaumeyer, W.J., 1940, 1952  
Zaumeyer, W.J. and H.H. Fisher, 1953  
Zaumeyer, W.J. and B.L. Wade, 1935
- Trifolium subterraneum*  
Baggett, James R., 1957
- Vicia americana*  
Zaumeyer, W.J. and B.L. Wade, 1935
- Vicia atropurpurea*  
Grogan, Raymond G. and J.C. Walker, 1948
- Vicia faba*  
Grogan, Raymond G. and J.C. Walker, 1948
- Vicia sativa*  
Grogan, Raymond G. and J.C. Walker, 1948  
Zaumeyer, W.J., 1940
- Vicia villosa*  
Baggett, James R., 1957

## VIRUS

- V. BEAN YELLOW MOSAIC (cont.)  
*Vigna sesquipedalis*  
 Conover, Robert A., 1948  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Vigna sinensis*  
 Conover, Robert A., 1948  
 Hagedorn, D.J. and J.C. Walker, 1950, 1954  
 Zaumeyer, W.J., 1952  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Zinnia elegans*  
 Thomas, H. Rex and W.J. Zaumeyer, 1953
- V. BEAN YELLOW STIPPLE Zaumeyer and Thomas 1950  
*Apium graveolens*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Beta vulgaris*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Brassica oleracea*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Canavalia ensiformis*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Cucumis sativus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Datura stramonium*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Lycopersicon esculentum*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Medicago sativa*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Melilotus alba*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Nicotiana tabacum*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Petunia hybrida*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus aconitifolius*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus angularis*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus aureus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus coccineus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus lathyroides*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus lunatus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Phaseolus lunatus f. macrocarpus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Sesbania exaltata*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Trifolium incarnatum*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Trifolium pratense*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Trifolium repens*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Tropaecolum majus*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Vicia faba*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950  
*Vigna vexillata*  
 Zaumeyer, W.J. and H. Rex Thomas, 1950
- V. BEET CURLY TOP ((Ball 1909; Boucquet and Hartung 1915)) Carsner 1919; Severin 1919  
*Amaranthus caudatus*  
 Bennett, C.W. and A.S. Costa, 1949  
*Amaranthus retroflexus*  
 Bennett, C.W. and A.S. Costa, 1949  
*Amaranthus* spp.  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
*Apium graveolens* var. *dulce*  
 Carsner, E., 1919  
*Arachis hypogaea*  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
*Artemisia californica*  
 Severin, Henry H.P., 1939  
*Asclepias mexicana*  
 Carsner, E., 1919

## VIRUS

- V. BEET CURLY TOP (cont.)  
*Atriplex polycarpa*  
 Carsner, E., 1919  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
*Atriplex semibaccata*  
 Bennett, C.W. and A.S. Costa, 1949  
*Atriplex spinifera*  
 Severin, Henry H.P. and Charles F. Henderson, 1928  
*Beta macrocarpa*  
 Costa, A.S., 1952  
*Beta patellaris*  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
*Beta patula*  
 Costa, A.S., 1952  
*Beta vulgaris*  
 Costa, A.S., 1952  
*Beta vulgaris* var. *cicla*  
 Costa, A.S., 1952  
*Brassica adpressa*  
 Giddings, N.J., 1944  
*Brassica oleracea*  
 Carsner, E., 1919  
*Brassica pekinensis*  
 Costa, A.S., 1952  
 Severin, Henry H.P., 1929  
*Callistephus chinensis*  
 Bennett, C.W. and A.S. Costa, 1949  
 Costa, A.S., 1952  
 Severin, Henry H.P., 1929  
*Capsicum frutescens* (*Capsicum annum*)  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Costa, A.S., 1952  
*Capsicum frutescens* var. *grossum*  
 Costa, A.S., 1952  
*Capsicum* spp.  
 Carsner, E., 1919  
*Ceanothus cuneatus*  
 Severin, Henry H.P., 1939  
*Chenopodium album*  
 Bennett, C.W. and A.S. Costa, 1949  
*Chenopodium leptophyllum*  
 Carsner, E., 1919  
*Chenopodium murale*  
 Carsner, E., 1919  
*Chrysopsis villosa*  
 Severin, Henry H.P., 1939  
*Coffea arabica*  
 Bennett, C.W. and A.S. Costa, 1949  
*Cucumis melo*  
 Carsner, E., 1919  
*Cucumis sativus*  
 Carsner, E., 1919  
*Cuscuta californica*  
 Bennett, C.W., 1944, 1951, 1955  
 Lackey, C.F., 1941  
 Lackey, C.F. and C.W. Bennett, 1949  
*Cuscuta campestris*  
 Bennett, C.W., 1944  
 Johnson, Folke, 1941  
*Cuscuta subinclusa*  
 Bennett, C.W., 1940, 1944  
 Fulton, Robert W., 1955  
 Giddings, N.J., 1947  
 Lackey, C.F. and C.W. Bennett, 1949  
*Datura meteloides*  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
 Giddings, N.J., C.W. Bennett and A.L. Harrison, 1951  
*Datura* spp.  
 Bennett, C.W. and A.S. Costa, 1949  
*Datura stramonium*  
 Bennett, C.W., Eubanks Carsner, F.H. Coons and E.W. Brandes, 1946  
*Delphinium hybrid*  
 Severin, Henry H.P., 1942  
*Eremocarpus setigerus*  
 Carsner, E., 1919

## VIRUS

- V. BEET CURLY TOP (cont.)
- Erigeron bonariensis*  
Bennett, C. W. and A. S. Costa, 1949
- Eschscholtzia californica*  
Carsner, E., 1919
- Euphorbia prunifolia*  
Costa, A. S., 1952
- Fagopyron esculentum*  
Costa, A. S., 1952
- Feijoa sellowiana*  
Giddings, N. J., 1944
- Frankenia grandifolia*  
Severin, Henry H. P., 1939
- Galinsoga parviflora*  
Costa, A. S., 1952
- Gossypium hirsutum*  
Bennett, C. W. and A. S. Costa, 1949  
Costa, A. S., 1952  
Giddings, N. J., 1944  
Severin, Henry H. P., 1929
- Gossypium* spp.  
Carsner, E., 1919
- Grindelia camporum*  
Severin, Henry H. P., 1939
- Gutierrezia californica*  
Severin, Henry H. P., 1939
- Haplopappus venetus* subsp. *veronoioides* \*  
Severin, Henry H. P., 1939
- Hemizonia virgata*  
Severin, Henry H. P., 1939
- Hibiscus esculentus*  
Giddings, N. J., 1944
- Hordeum vulgare*  
Carsner, E., 1919
- Isomeris arborea*  
Severin, Henry H. P., 1939
- Lactuca sativa*  
Bennett, C. W. and A. S. Costa, 1949  
Carsner, E., 1919  
Severin, Henry H. P., 1929
- Lavatera assurgentiflora*  
Carsner, E., 1919
- Lepidium nitidum*  
Giddings, N. J., 1938
- Lepidospartum squamatum*  
Severin, Henry H. P., 1939
- Lessingia glandulifera*  
Severin, Henry H. P., 1939
- Lupinus affinis*  
Carsner, E., 1919
- Lycopersicon chilense*  
Virgin, Walter J., 1940
- Lycopersicon esculentum*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Giddings, N. J., 1938
- Lycopersicon peruvianum*  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Lycopersicon pimpinellifolium*  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Malcomia africana*  
Giddings, N. J., 1944
- Malus* spp.  
Giddings, N. J., 1944
- Marrubium vulgare*  
Carsner, E., 1919  
Severin, Henry H. P., 1939
- Medicago sativa*  
Giddings, N. J., 1944
- Nicandra physalodes*  
Costa, A. S., 1952
- Nicotiana acuminata*  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Nicotiana glauca*  
Bennett, C. W. and A. S. Costa, 1949  
Costa, A. S., 1952  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Nicotiana glutinosa*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946

## VIRUS

- V. BEET CURLY TOP (cont.)
- Nicotiana glutinosa*  
Costa, A. S., 1952
- Nicotiana tabacum*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Costa, A. S., 1952  
Giddings, N. J., 1938, 1944  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Oxalis* spp.  
Bennett, C. W. and A. S. Costa, 1949
- Parthenium argentatum*  
Severin, Henry H. P., 1945
- Petunia hybrida*  
Bennett, C. W. and A. S. Costa, 1949  
Costa, A. S., 1952
- Phaseolus vulgaris*  
Bennett, C. W., Eubanks Carsner, F. H. Coons and E. W. Brandes, 1946  
Bennett, C. W. and A. S. Costa, 1949  
Carsner, E., 1919  
Giddings, N. J., 1938  
Murphy, Donald M. and W. H. Pierce, 1938
- Physalis* spp.  
Costa, A. S., 1952
- Phytolacca americana*  
Bennett, C. W. and A. S. Costa, 1949  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Plantago erecta*  
Giddings, N. J., 1938
- Pluchea sericea*  
Severin, Henry H. P., 1939
- Portulaca oleracea*  
Bennett, C. W. and A. S. Costa, 1949  
Carsner, E., 1919
- Punica granatum*  
Giddings, N. J., 1944
- Raphanus sativus*  
Carsner, E., 1919
- Ricinus communis*  
Giddings, N. J., C. W. Bennett and A. L. Harrison, 1951
- Rosa chinensis*  
Giddings, N. J., 1944
- Rumex crispus*  
Carsner, E., 1919
- Samolus floribundus*  
Costa, A. S., 1952
- Senecio douglassii*  
Severin, Henry H. P., 1939
- Sida hederacea*  
Severin, Henry H. P., 1939
- Sida rhombifolia*  
Bennett, C. W. and A. S. Costa, 1949
- Solanum melongena*  
Costa, A. S., 1952
- Solanum nigrum*  
Bennett, C. W. and A. S. Costa, 1949  
Carsner, E., 1919  
Costa, A. S., 1952
- Solanum tuberosum*  
Bennett, C. W. and A. S. Costa, 1949
- Spinacia oleracea*  
Costa, A. S., 1952
- Stellaria media*  
Costa, A. S., 1952
- Trifolium pratense*  
Giddings, N. J., 1944
- Trifolium repens*  
Giddings, N. J., 1944
- Tropaeolum majus*  
Carsner, E., 1919
- Verbena prostrata*  
Carsner, E., 1919
- Vinca rosea*  
Bennett, C. W. and A. S. Costa, 1949
- Zinnia elegans*  
Costa, A. S., 1952

- V. BEET MOSAIC Robbins 1921; Hoggan 1933
- Apium graveolens* var. *dulce*  
Severin, Henry H. P. and Roger M. Drake, 1948



## VIRUS

- V. BEET MOSAIC (cont.)
- Atropa belladonna*  
Pound, Glenn S., 1947
- Brassica campestris*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Brassica juncea* (*Brassica japonica*)  
Pound, Glenn S., 1947
- Brassica nigra*  
Bennett, C. W., 1949
- Brassica oleracea* var. *botrytis*  
Severin, Henry H. P. and Roger M. Drake, 1948
- Brassica oleracea* var. *capitata*  
Pound, Glenn S., 1947  
Severin, Henry H. P. and Roger M. Drake, 1948
- Brassica oleracea* var. *gemmifera*  
Pound, Glenn S., 1947
- Brassica oleracea* var. *gongylodes*  
Pound, Glenn S., 1947
- Brassica pekinensis*  
Pound, Glenn S., 1947
- Calendula officinalis*  
Pound, Glenn S., 1947
- Campanula medium*  
Pound, Glenn S., 1947
- Capsicum frutescens* var. *cerasiforme*  
Pound, Glenn S., 1947
- Capsicum frutescens* var. *grossum*  
Severin, Henry H. P. and Roger M. Drake, 1948
- Centaurea nigra*  
Pound, Glenn S., 1947
- Centaurea repens*  
Pound, Glenn S., 1947
- Cheiranthus cheiri*  
Pound, Glenn S., 1947
- Chrysanthemum morifolium*  
Pound, Glenn S., 1947
- Cirsium arvense*  
Pound, Glenn S., 1947
- Cucumis sativus*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947  
Severin, Henry H. P. and Roger M. Drake, 1948
- Cucurbita pepo*  
Pound, Glenn S., 1947
- Cuscuta californica*  
Bennett, C. W., 1944
- Cuscuta campestris*  
Bennett, C. W., 1944
- Cuscuta subinclusa*  
Bennett, C. W., 1940, 1944
- Dahlia pinnata*  
Pound, Glenn S., 1947
- Datura metel*  
Pound, Glenn S., 1947
- Datura meteloides*  
Bennett, C. W., 1949
- Datura stramonium*  
Bennett, C. W., 1949  
Severin, Henry H. P. and Roger M. Drake, 1947
- Daucus carota*  
Pound, Glenn S., 1947
- Delphinium ajacis*  
Pound, Glenn S., 1947
- Dianthus barbatus*  
Pound, Glenn S., 1947
- Digitalis purpurea*  
Pound, Glenn S., 1947
- Hesperis matronalis*  
Pound, Glenn S., 1947
- Lactuca sativa*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947
- Lathyrus odoratus*  
Pound, Glenn S., 1947
- Lepidium virginicum*  
Pound, Glenn S., 1947
- Lobularia maritima*  
Pound, Glenn S., 1947
- Lupinus pubescens*  
Pound, Glenn S., 1947
- Lycopersicon esculentum*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947

## VIRUS

- V. BEET MOSAIC (cont.)
- Lycopersicon esculentum*  
Severin, Henry H. P. and Roger M. Drake, 1948
- Malva rotundifolia*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Matthiola incana* var. *annua*  
Pound, Glenn S., 1947  
Severin, Henry H. P. and Roger M. Drake, 1948
- Medicago sativa*  
Bennett, C. W., 1949
- Melilotus alba*  
Bennett, C. W., 1949
- Neslia paniculata*  
Pound, Glenn S., 1947
- Nicandra physalodes*  
Pound, Glenn S., 1947
- Nicotiana acuminata*  
Bennett, C. W., 1949
- Nicotiana glauca*  
Bennett, C. W., 1949
- Nicotiana glutinosa*  
Bennett, C. W., 1949  
Severin, Henry H. P. and Roger M. Drake, 1948
- Nicotiana langsdorffii*  
Bennett, C. W., 1949
- Nicotiana longiflora*  
Bennett, C. W., 1949
- Nicotiana palmeri*  
Bennett, C. W., 1949
- Nicotiana paniculata*  
Bennett, C. W., 1949
- Nicotiana rustica*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947
- Nicotiana sylvestris*  
Bennett, C. W., 1949
- Nicotiana tabacum*  
Bennett, C. W., 1949  
Hoggan, I. A., 1933  
Pound, Glenn S., 1947
- Parthenium argentatum*  
Severin, Henry H. P., 1945
- Petunia hybrida*  
Bennett, C. W., 1949
- Phaseolus coccineus*  
Pound, Glenn S., 1947
- Phaseolus vulgaris*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947  
Severin, Henry H. P. and Roger M. Drake, 1948
- Phlox drummondii*  
Pound, Glenn S., 1947
- Physalis pubescens*  
Pound, Glenn S., 1947
- Phytolacca americana*  
Bennett, C. W., 1949  
Pound, Glenn S., 1947
- Plantago lanceolata*  
Bennett, C. W., 1949
- Plantago major*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Polygonum hydropiper*  
Pound, Glenn S., 1947
- Polygonum scandens*  
Pound, Glenn S., 1947
- Raphanus sativus*  
Pound, Glenn S., 1947
- Reseda odorata*  
Pound, Glenn S., 1947
- Rumex acetosella*  
Bennett, C. W., 1949  
Severin, Henry H. P. and Roger M. Drake, 1947
- Rumex crispus*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Rumex occidentalis*  
Pound, Glenn S., 1947
- Rumex pulcher*  
Severin, Henry H. P. and Roger M. Drake, 1947
- Salvia splendens*  
Pound, Glenn S., 1947
- Scabiosa atropurpurea*  
Pound, Glenn S., 1947

## VIRUS

## V. BEET MOSAIC (cont.)

- Sisymbrium irio  
Bennett, C. W., 1949
- Solanum integrifolium  
Pound, Glenn S., 1947
- Solanum melongena  
Pound, Glenn S., 1947
- Solanum nigrum  
Severin, Henry H. P. and Roger M. Drake, 1947
- Solanum tuberosum  
Pound, Glenn S., 1947
- Sonchus asper  
Bennett, C. W., 1949  
Severin, Henry H. P. and Roger M. Drake, 1947
- Sonchus oleraceus  
Severin, Henry H. P. and Roger M. Drake, 1947
- Tagetes patula  
Pound, Glenn S., 1947
- Thlaspi arvense  
Pound, Glenn S., 1947
- Trifolium pratense  
Bennett, C. W., 1949
- Trifolium repens  
Bennett, C. W., 1949
- Vicia faba  
Severin, Henry H. P. and Roger M. Drake, 1948
- Vigna sinensis  
Pound, Glenn S., 1947
- Zinnia elegans  
Bennett, C. W., 1949

## V. BEET RING SPOT \*

- Agropyron repens  
Harrison, B. D., 1957
- Equisetum arvense  
Harrison, B. D., 1957
- Pteris aquilina  
Harrison, B. D., 1957

## V. BEET ROSETTE \*

- Chenopodium album  
Bennett, C. W. and James E. Duffus, 1957
- Chenopodium amaranticolor  
Bennett, C. W. and James E. Duffus, 1957
- Chenopodium capitatum  
Bennett, C. W. and James E. Duffus, 1957
- Cuscuta californica  
Bennett, C. W. and James E. Duffus, 1957
- Cuscuta campestris  
Bennett, C. W. and James E. Duffus, 1957
- Cuscuta subinclusa  
Bennett, C. W. and James E. Duffus, 1957
- Nicotiana tabacum  
Bennett, C. W. and James E. Duffus, 1957
- Spinacia oleracea  
Bennett, C. W. and James E. Duffus, 1957

## V. BEET YELLOW NET Sylvester 1948

- Atriplex patula  
Sylvester, Edward S., 1948
- Atriplex rosea  
Sylvester, Edward S., 1948
- Brassica campestris  
Sylvester, Edward S., 1948
- Brassica chinensis  
Sylvester, Edward S., 1948
- Calendula officinalis  
Sylvester, Edward S., 1948
- Callistephus chinensis  
Sylvester, Edward S., 1948
- Capsella bursa-pastoris  
Sylvester, Edward S., 1948
- Chenopodium murale  
Sylvester, Edward S., 1948
- Cucumis sativus  
Sylvester, Edward S., 1948
- Dahlia pinnata  
McLean, D. M., 1952
- Datura stramonium  
Sylvester, Edward S., 1948
- Erodium moschatum  
Sylvester, Edward S., 1948

## VIRUS

## V. BEET YELLOW NET (cont.)

- Fragaria vesca  
McLean, D. M., 1952
- Gladiolus spp.  
McLean, D. M., 1952
- Ipomoea purpurea  
Sylvester, Edward S., 1948
- Lactuca sativa var. romana  
Sylvester, Edward S., 1948
- Lycopersicon esculentum  
Sylvester, Edward S., 1948
- Nicotiana tabacum  
Sylvester, Edward S., 1948
- Plantago major  
Sylvester, Edward S., 1948
- Polygonum coccineum  
Sylvester, Edward S., 1948
- Polygonum persicaria  
Sylvester, Edward S., 1948
- Rumex crispus  
Sylvester, Edward S., 1948
- Sonchus arvensis  
Sylvester, Edward S., 1948
- Spinacia oleracea  
McLean, D. M., 1952  
Sylvester, Edward S., 1948
- Stellaria media  
McLean, D. M., 1952
- Verbesina encelioides  
McLean, D. M., 1952
- Zinnia elegans  
McLean, D. M., 1952

## V. BEET YELLOW VEIN DISEASE \*

- Cuscuta californica  
Bennett, C. W., 1944, 1956
- Cuscuta campestris  
Bennett, C. W., 1944, 1956
- Cuscuta subinclusa  
Bennett, C. W., 1944, 1956

## V. BEET YELLOW WILT Bennett and Munck 1946

- Cucumis sativus  
Bennett, C. W. and Carlos Munck, 1946
- Cuscuta campestris  
Bennett, C. W. and Carlos Munck, 1946
- Cuscuta subinclusa  
Bennett, C. W. and Carlos Munck, 1946
- Nicotiana tabacum  
Bennett, C. W. and Carlos Munck, 1946
- Petunia hybrida  
Bennett, C. W. and Carlos Munck, 1946
- Phaseolus vulgaris  
Bennett, C. W. and Carlos Munck, 1946

## V. BEET YELLOWS Watson 1942; Petherbridge and Stirrup 1935

- Achillea millefolium  
Roland, G. and J. Tahon, 1961
- Aegopodium podagraria  
Roland, G. and J. Tahon, 1961
- Agropyron repens  
Roland, G. and J. Tahon, 1961
- Allium cepa  
Roland, G. and J. Tahon, 1961
- Ambrosia psilostachya  
Roland, G. and J. Tahon, 1961
- Ambrosia trifida  
Roland, G. and J. Tahon, 1961
- Ammannia coccinea  
Roland, G. and J. Tahon, 1961
- Anagallis arvensis  
Roland, G. and J. Tahon, 1961
- Anemopsis californica  
Roland, G. and J. Tahon, 1961
- Apium graveolens  
Roland, G. and J. Tahon, 1961
- Arachis hypogaea  
Roland, G. and J. Tahon, 1961
- Arctium tomentosum  
Roland, G. and J. Tahon, 1961
- Artemisia vulgaris  
Roland, G. and J. Tahon, 1961

## VIRUS

## V. BEET YELLOWS (cont.)

- Atriplex lentiformis*  
Roland, G. and J. Tahon, 1961
- Atriplex polycarpa*  
Roland, G. and J. Tahon, 1961
- Avena sativa*  
Roland, G. and J. Tahon, 1961
- Borago officinalis*  
Roland, G. and J. Tahon, 1961
- Brassica campestris*  
Roland, G. and J. Tahon, 1961
- Brassica kaber (Brassica arvensis)*  
Roland, G. and J. Tahon, 1961
- Brassica napus*  
Roland, G. and J. Tahon, 1961
- Brassica nigra*  
Roland, G. and J. Tahon, 1961
- Brassica oleracea*  
Roland, G. and J. Tahon, 1961
- Brassica rapa*  
Roland, G. and J. Tahon, 1961
- Calendula officinalis*  
Roland, G. and J. Tahon, 1961
- Capsicum frutescens (Capsicum annum)*  
Roland, G. and J. Tahon, 1961
- Carthamus tinctorius*  
Roland, G. and J. Tahon, 1961
- Centaurea cyanus*  
Roland, G. and J. Tahon, 1961
- Cerastium caespitosum*  
Roland, G. and J. Tahon, 1961
- Chaerophyllum silvestre*  
Roland, G. and J. Tahon, 1961
- Cheiranthus cheiri*  
Roland, G. and J. Tahon, 1961
- Chorisia spp.*  
Roland, G. and J. Tahon, 1961
- Cichorium intybus*  
Roland, G. and J. Tahon, 1961
- Cirsium arvense*  
Roland, G. and J. Tahon, 1961
- Cirsium vulgare*  
Roland, G. and J. Tahon, 1961
- Citrullus vulgaris*  
Roland, G. and J. Tahon, 1961
- Citrus sinensis*  
Roland, G. and J. Tahon, 1961
- Cochlearia armoracia*  
Roland, G. and J. Tahon, 1961
- Conium maculatum*  
Roland, G. and J. Tahon, 1961
- Convolvulus arvensis*  
Roland, G. and J. Tahon, 1961
- Cucumis sativus*  
Roland, G. and J. Tahon, 1961
- Cuscuta americana*  
Roland, G. and J. Tahon, 1961
- Cuscuta epithymum*  
Roland, G. and J. Tahon, 1961
- Cyamopsis tetragonoloba*  
Roland, G. and J. Tahon, 1961
- Cyclamen persicum (Cyclamen indicum)*  
Roland, G. and J. Tahon, 1961
- Dahlia spp.*  
Roland, G. and J. Tahon, 1961
- Datura meteloides*  
Roland, G. and J. Tahon, 1961
- Datura stramonium*  
Roland, G. and J. Tahon, 1961
- Datura stramonium var. tatula*  
Roland, G. and J. Tahon, 1961
- Daucus carota*  
Roland, G. and J. Tahon, 1961
- Dianthus barbatus*  
Roland, G. and J. Tahon, 1961
- Dianthus caryophyllus*  
Roland, G. and J. Tahon, 1961
- Dianthus chinensis*  
Roland, G. and J. Tahon, 1961
- Dithyrea wislizenii*  
Roland, G. and J. Tahon, 1961
- Eclipta alba*  
Roland, G. and J. Tahon, 1961

## VIRUS

## V. BEET YELLOWS (cont.)

- Epilobium angustifolium*  
Roland, G. and J. Tahon, 1961
- Epilobium paniculatum*  
Roland, G. and J. Tahon, 1961
- Equisetum arvense*  
Roland, G. and J. Tahon, 1961
- Eremocarpus setigerus*  
Roland, G. and J. Tahon, 1961
- Erigeron canadensis*  
Roland, G. and J. Tahon, 1961
- Eriogonum fasciculatum*  
Roland, G. and J. Tahon, 1961
- Erodium cicutarium*  
Roland, G. and J. Tahon, 1961
- Eschscholtzia californica*  
Roland, G. and J. Tahon, 1961
- Euphorbia helioscopia*  
Roland, G. and J. Tahon, 1961
- Euphorbia maculata*  
Roland, G. and J. Tahon, 1961
- Euphorbia pepus*  
Roland, G. and J. Tahon, 1961
- Euphorbia serphyllifolia*  
Roland, G. and J. Tahon, 1961
- Galeopsis speciosa*  
Roland, G. and J. Tahon, 1961
- Galeopsis tetrahit*  
Roland, G. and J. Tahon, 1961
- Galinsoga parviflora*  
Roland, G. and J. Tahon, 1961
- Geranium dissectum*  
Roland, G. and J. Tahon, 1961
- Geranium maculatum*  
Roland, G. and J. Tahon, 1961
- Gnaphalium beneolens*  
Roland, G. and J. Tahon, 1961
- Gossypium hirsutum*  
Roland, G. and J. Tahon, 1961
- Helianthus annuus*  
Roland, G. and J. Tahon, 1961
- Helianthus tuberosus*  
Roland, G. and J. Tahon, 1961
- Helichrysum bractatum \**  
Roland, G. and J. Tahon, 1961
- Heliotropium curassavicum*  
Roland, G. and J. Tahon, 1961
- Hibiscus esculentus*  
Roland, G. and J. Tahon, 1961
- Hibiscus rosa-sinensis*  
Roland, G. and J. Tahon, 1961
- Hordeum vulgare*  
Roland, G. and J. Tahon, 1961
- Hyoscyamus niger*  
Roland, G. and J. Tahon, 1961
- Hypochoeris radicata*  
Roland, G. and J. Tahon, 1961
- Impatiens spp.*  
Roland, G. and J. Tahon, 1961
- Ipomoea purpurea*  
Roland, G. and J. Tahon, 1961
- Lactuca sativa*  
Roland, G. and J. Tahon, 1961
- Lactuca serriola*  
Roland, G. and J. Tahon, 1961
- Lamium album*  
Roland, G. and J. Tahon, 1961
- Lamium purpureum*  
Roland, G. and J. Tahon, 1961
- Lathyrus odoratus*  
Roland, G. and J. Tahon, 1961
- Lepidium lasiocarpum*  
Roland, G. and J. Tahon, 1961
- Linaria vulgaris*  
Roland, G. and J. Tahon, 1961
- Linum lewisii*  
Roland, G. and J. Tahon, 1961
- Linum usitatissimum*  
Roland, G. and J. Tahon, 1961
- Lupinus albus*  
Roland, G. and J. Tahon, 1961
- Lycopersicon esculentum*  
Roland, G. and J. Tahon, 1961

## VIRUS

## V. BEET YELLOWS (cont.)

- Malva parviflora*  
 Roland, G. and J. Tahon, 1961  
*Malva rotundifolia*  
 Roland, G. and J. Tahon, 1961  
*Malva sylvestris*  
 Roland, G. and J. Tahon, 1961  
*Marrubium vulgare*  
 Roland, G. and J. Tahon, 1961  
*Matricaria chamomilla*  
 Roland, G. and J. Tahon, 1961  
*Matricaria discoidea*  
 Roland, G. and J. Tahon, 1961  
*Matricaria inodora*  
 Roland, G. and J. Tahon, 1961  
*Matthiola incana*  
 Roland, G. and J. Tahon, 1961  
*Medicago lupulina*  
 Roland, G. and J. Tahon, 1961  
*Medicago sativa*  
 Roland, G. and J. Tahon, 1961  
*Melandryum album*  
 Roland, G. and J. Tahon, 1961  
*Melandryum rubrum*  
 Roland, G. and J. Tahon, 1961  
*Melilotus alba*  
 Roland, G. and J. Tahon, 1961  
*Melilotus dentata*  
 Roland, G. and J. Tahon, 1961  
*Mentzelia pumila*  
 Roland, G. and J. Tahon, 1961  
*Mesembryanthemum aequilaterale*  
 Roland, G. and J. Tahon, 1961  
*Mimulus* spp.  
 Roland, G. and J. Tahon, 1961  
*Mirabilis jalapa*  
 Roland, G. and J. Tahon, 1961  
*Myosotis arvensis*  
 Roland, G. and J. Tahon, 1961  
*Nemesia* spp.  
 Roland, G. and J. Tahon, 1961  
*Nicandra physalodes*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana glauca*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana glutinosa*  
 Bennett, C.W. and Carlos Munck, 1946  
 Roland, G. and J. Tahon, 1961  
*Nicotiana paniculata*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana plumbaginifolia*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana rustica*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana stocktonii*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana sylvestris*  
 Roland, G. and J. Tahon, 1961  
*Nicotiana tabacum*  
 Roland, G. and J. Tahon, 1961  
*Oxalis corniculata*  
 Roland, G. and J. Tahon, 1961  
*Papaver somniferum*  
 Roland, G. and J. Tahon, 1961  
*Parthenium argentatum*  
 Roland, G. and J. Tahon, 1961  
*Petroselinum crispum*  
 Roland, G. and J. Tahon, 1961  
*Petunia hybrida*  
 Roland, G. and J. Tahon, 1961  
*Phacelia campanularia*  
 Roland, G. and J. Tahon, 1961  
*Phaseolus lunatus*  
 Roland, G. and J. Tahon, 1961  
*Phaseolus vulgaris*  
 Roland, G. and J. Tahon, 1961  
*Physalis wrightii*  
 Roland, G. and J. Tahon, 1961  
*Phytolacca decandra*  
 Roland, G. and J. Tahon, 1961  
*Pisum sativum*  
 Roland, G. and J. Tahon, 1961

## VIRUS

## V. BEET YELLOWS (cont.)

- Plantago coronopus*  
 Roland, G. and J. Tahon, 1961  
*Poa pratensis*  
 Roland, G. and J. Tahon, 1961  
*Polygonum acre*  
 Roland, G. and J. Tahon, 1961  
*Polygonum argyrocoleon*  
 Roland, G. and J. Tahon, 1961  
*Polygonum heterophyllum*  
 Roland, G. and J. Tahon, 1961  
*Polygonum lapathifolium*  
 Roland, G. and J. Tahon, 1961  
*Polygonum nodosum*  
 Roland, G. and J. Tahon, 1961  
*Portulaca marginata*  
 Roland, G. and J. Tahon, 1961  
*Portulaca oleracea*  
 Roland, G. and J. Tahon, 1961  
*Portulaca retusa*  
 Roland, G. and J. Tahon, 1961  
*Primula kewensis*  
 Roland, G. and J. Tahon, 1961  
*Prunus persica* (*Amygdalus persica*)  
 Roland, G. and J. Tahon, 1961  
*Pueraria lobata*  
 Roland, G. and J. Tahon, 1961  
*Raphanus sativus*  
 Roland, G. and J. Tahon, 1961  
*Rumex acetosa*  
 Roland, G. and J. Tahon, 1961  
*Rumex acetosella*  
 Roland, G. and J. Tahon, 1961  
*Rumex aquaticus*  
 Roland, G. and J. Tahon, 1961  
*Rumex conglomeratus*  
 Roland, G. and J. Tahon, 1961  
*Rumex crispus*  
 Roland, G. and J. Tahon, 1961  
*Rumex domesticus*  
 Roland, G. and J. Tahon, 1961  
*Rumex obtusifolius*  
 Roland, G. and J. Tahon, 1961  
*Rumex persicarioides*  
 Roland, G. and J. Tahon, 1961  
*Rumex pulcher*  
 Roland, G. and J. Tahon, 1961  
*Saintpaulia* spp.  
 Roland, G. and J. Tahon, 1961  
*Salvia splendens*  
 Roland, G. and J. Tahon, 1961  
*Samolus parviflorus*  
 Roland, G. and J. Tahon, 1961  
*Sanguisorba minor*  
 Roland, G. and J. Tahon, 1961  
*Senecio cruentus*  
 Roland, G. and J. Tahon, 1961  
*Senecio macrophyllus*  
 Roland, G. and J. Tahon, 1961  
*Silene dichotoma*  
 Roland, G. and J. Tahon, 1961  
*Silene nutans*  
 Roland, G. and J. Tahon, 1961  
*Silene verecunda*  
 Roland, G. and J. Tahon, 1961  
*Silene vulgaris*  
 Roland, G. and J. Tahon, 1961  
*Sisymbrium altissimum*  
 Roland, G. and J. Tahon, 1961  
*Sisymbrium irio*  
 Roland, G. and J. Tahon, 1961  
*Sisymbrium officinale*  
 Roland, G. and J. Tahon, 1961  
*Solanum dulcamara*  
 Roland, G. and J. Tahon, 1961  
*Solanum elaeagnifolium*  
 Roland, G. and J. Tahon, 1961  
*Solanum nigrum*  
 Roland, G. and J. Tahon, 1961  
*Solanum tuberosum*  
 Roland, G. and J. Tahon, 1961  
*Solidago virgaurea*  
 Roland, G. and J. Tahon, 1961

- VIRUS
- V. BEET YELLOWS (cont.)
- Sonchus arvensis*  
Roland, G. and J. Tahon, 1961
- Sonchus asper*  
Roland, G. and J. Tahon, 1961
- Sonchus oleraceus*  
Roland, G. and J. Tahon, 1961
- Sorghum halepense*  
Roland, G. and J. Tahon, 1961
- Sorghum vulgare*  
Roland, G. and J. Tahon, 1961
- Stachys arvensis*  
Roland, G. and J. Tahon, 1961
- Tanacetum vulgare*  
Roland, G. and J. Tahon, 1961
- Taraxacum megalorrhizon*  
Roland, G. and J. Tahon, 1961
- Taraxacum officinale*  
Roland, G. and J. Tahon, 1961
- Tigridia* spp.  
Roland, G. and J. Tahon, 1961
- Tribulus terrestris*  
Roland, G. and J. Tahon, 1961
- Trifolium incarnatum*  
Roland, G. and J. Tahon, 1961
- Trifolium pratense*  
Roland, G. and J. Tahon, 1961
- Tropaeolum peregrinum*  
Roland, G. and J. Tahon, 1961
- Tulipa silvestris*  
Roland, G. and J. Tahon, 1961
- Tussilago farfara*  
Roland, G. and J. Tahon, 1961
- Urtica californica*  
Roland, G. and J. Tahon, 1961
- Urtica dioica*  
Roland, G. and J. Tahon, 1961
- Urtica urens*  
Roland, G. and J. Tahon, 1961
- Veronica agrestis*  
Roland, G. and J. Tahon, 1961
- Veronica arvensis*  
Roland, G. and J. Tahon, 1961
- Veronica hederifolia*  
Roland, G. and J. Tahon, 1961
- Veronica peregrina*  
Roland, G. and J. Tahon, 1961
- Vicia faba*  
Roland, G. and J. Tahon, 1961
- Vicia sativa*  
Roland, G. and J. Tahon, 1961
- Vigna sinensis*  
Roland, G. and J. Tahon, 1961
- Vinca rosea*  
Roland, G. and J. Tahon, 1961
- Viola arvensis*  
Roland, G. and J. Tahon, 1961
- Viola tricolor*  
Roland, G. and J. Tahon, 1961
- Vitis* spp.  
Roland, G. and J. Tahon, 1961
- Zea mays*  
Roland, G. and J. Tahon, 1961
- Zinnia elegans*  
Roland, G. and J. Tahon, 1961
- Zygocactus truncatus*  
Roland, G. and J. Tahon, 1961
- V. BLACK RASPBERRY NECROSIS
- Rosa* spp.  
Brierley, Philip and Floyd F. Smith, 1940
- V. BROAD BEAN MOTTLE Bawden et al. 1951
- Cucumis sativus*  
Yu, T.F., 1939
- Datura stramonium*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- Dolichos lablab*  
Yu, T.F., 1939
- Glycine max*  
Yu, T.F., 1939
- VIRUS
- V. BROAD BEAN MOTTLE (cont.)
- Lycopersicon esculentum*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
Yu, T.F., 1939
- Medicago sativa*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- Nicotiana glutinosa*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- Nicotiana tabacum*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951  
Yu, T.F., 1939
- Phaseolus aureus*  
Yu, T.F., 1939
- Phaseolus vulgaris*  
Yu, T.F., 1939
- Vicia sativa*  
Bawden, F.C., R.P. Chaudhuri and B. Kassanis, 1951
- Vigna sinensis*  
Yu, T.F., 1939
- V. CABBAGE BLACK RING SPOT Smith 1935 (( ? A strain of *V. Turnip mosaic* (q.v.))
- Ajuga reptans* var. *rubra*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Althaea rosea*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Alyssum saxatile*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Anchusa officinalis*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Anemone coronaria*  
Hollings, M., 1957
- Antirrhinum majus*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Apium graveolens*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Arabis albida*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Avena sativa*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Bellis perennis*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Beta vulgaris*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Beta vulgaris* var. *cicla*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Brassica integrifolia* var. *chevalieri* \*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Callistephus chinensis*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Campanula medium*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Chrysanthemum maximum*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Clarkia elegans*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Cucumis sativus*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938
- Datura stramonium*  
Tompkins, C.M., M.W. Gardner and H. Rex Thomas, 1938

## VIRUS

## V. CABBAGE BLACK RING SPOT (cont.)

- Delphinium ajacis*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Delphinium cultorum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Dianthus barbatus*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Gaillardia pulchella* var. *picta*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Gerbera jamesonii* var. *transvaalensis*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Geum chilense*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Godetia grandiflora*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Gypsophila paniculata*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Heliotropium peruvianum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Ipomoea purpurea*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Lactuca sativa* var. *capitata*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Limonium latifolium*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Lobelia hybrida*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Lycopersicon esculentum* var. *vulgare*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Lycopersicon pimpinellifolium*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Malva parviflora*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Medicago sativa*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Nicotiana rustica* var. *humilis* \*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Papaver orientale*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Pelargonium hortorum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Penstemon barbatus*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Pisum sativum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Raphanus sativus*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Ricinus communis*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Salvia farinacea*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Solanum aviculare*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Solanum melongena* var. *esculentum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938

## VIRUS

## V. CABBAGE BLACK RING SPOT (cont.)

- Solanum tuberosum*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Tagetes patula*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Taraxacum officinale*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Tropaeolum majus*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Valeriana officinalis*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Vicia faba*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Viola tricolor*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938
- Zea mays*  
Tompkins, C. M., M. W. Gardner and H. Rex Thomas, 1938

## V. CABBAGE RING NECROSIS Larson and Walker 1941

- Antirrhinum majus*  
Larson, R. H. and J. C. Walker, 1941
- Apium graveolens*  
Larson, R. H. and J. C. Walker, 1941
- Callistephus chinensis*  
Larson, R. H. and J. C. Walker, 1941
- Chenopodium album*  
Larson, R. H. and J. C. Walker, 1941
- Citrullus vulgaris*  
Larson, R. H. and J. C. Walker, 1941
- Cucumis melo*  
Larson, R. H. and J. C. Walker, 1941
- Datura stramonium*  
Larson, R. H. and J. C. Walker, 1941
- Lycopersicon esculentum*  
Larson, R. H. and J. C. Walker, 1941
- Lycopersicon pimpinellifolium*  
Larson, R. H. and J. C. Walker, 1941
- Nicotiana longiflora*  
Larson, R. H. and J. C. Walker, 1941
- Nicotiana nudicaulis*  
Larson, R. H. and J. C. Walker, 1941
- Nicotiana sanderae*  
Larson, R. H. and J. C. Walker, 1941
- Senecio cruentus*  
Larson, R. H. and J. C. Walker, 1941
- Solanum melongena*  
Larson, R. H. and J. C. Walker, 1941
- Solanum nigrum*  
Larson, R. H. and J. C. Walker, 1941
- Solanum tuberosum*  
Larson, R. H. and J. C. Walker, 1941
- Tagetes patula*  
Larson, R. H. and J. C. Walker, 1941
- Taraxacum officinale*  
Larson, R. H. and J. C. Walker, 1941
- Tropaeolum majus*  
Larson, R. H. and J. C. Walker, 1941
- Vicia faba*  
Larson, R. H. and J. C. Walker, 1941
- Viola tricolor*  
Larson, R. H. and J. C. Walker, 1941

## V. CACAO SWOLLEN SHOOT ((W. F. Stevens) 1937))

- Abutilon asiaticum* Posnette 1940  
Tinsley, T. W. and A. L. Wharton, 1958
- Alstonia congensis*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950
- Ananas sativus*  
Tinsley, T. W. and A. L. Wharton, 1958
- Apeiba tibourbou* var. *membranacea* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Arachis hypogaea*  
Tinsley, T. W. and A. L. Wharton, 1958

## VIRUS

- V. CACAO SWOLLEN SHOOT (cont.)
- Artocarpus incisa*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Baphia nitida*  
Tinsley, T. W. and A. L. Wharton, 1958
- Berrya ammonilla*  
Tinsley, T. W. and A. L. Wharton, 1958
- Bixa orellana*  
Tinsley, T. W. and A. L. Wharton, 1958
- Bombax buonopozense*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Buettneria catalpifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Caesalpinia pulcherrima*  
Tinsley, T. W. and A. L. Wharton, 1958
- Canthium glabriflorum*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Capsicum frutescens (Capsicum annum)*  
Tinsley, T. W. and A. L. Wharton, 1958
- Carica papaya*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Cassia occidentalis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Ceiba pentandra*  
Tinsley, T. W. and A. L. Wharton, 1958
- Christiana africana*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cistanthera papaverifera*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Citrus aurantifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Citrus sinensis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Clappertonia ficifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cochlospermum vitifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola caricaefolia* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola chlamydantha*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola gigantea* var. *glabrescens* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola heterophylla*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola lateritia* var. *maclaudi* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola millenii (Cola togoensis)*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola nitida*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola togoensis*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Cola umbratilis* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Cola verticillata*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Cucumis sativus*  
Tinsley, T. W. and A. L. Wharton, 1958
- Datura stramonium*  
Tinsley, T. W. and A. L. Wharton, 1958
- Desplatsia dewevrei* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Desplatzia lutea*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Dombeya buettneri*  
Tinsley, T. W. and A. L. Wharton, 1958
- Elaeis guineensis*  
Tinsley, T. W. and A. L. Wharton, 1958

## VIRUS

- V. CACAO SWOLLEN SHOOT (cont.)
- Elaeophorbia drupifera*  
Tinsley, T. W. and A. L. Wharton, 1958
- Erythropsis barteri*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Ficus exasperata*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Funtumia elastica*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Glycine soya*  
Tinsley, T. W. and A. L. Wharton, 1958
- Glyphaea brevis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Gossypium hirsutum*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Grewia similis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Gauzuma ulmifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Harpullia pendula*  
Tinsley, T. W. and A. L. Wharton, 1958
- Hermannia candicans* var. *discolor* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Herrania balaensis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Herrania* spp.  
Tinsley, T. W. and A. L. Wharton, 1958
- Hevea brasiliensis (Siphonia ridleyana)*  
Tinsley, T. W. and A. L. Wharton, 1958
- Hibiscus esculentus*  
Tinsley, T. W. and A. L. Wharton, 1958
- Kleinhovia hospita*  
Tinsley, T. W. and A. L. Wharton, 1958
- Leptonychia pubescens*  
Tinsley, T. W. and A. L. Wharton, 1958
- Manihot esculenta (Manihot utilissima)*  
Tinsley, T. W. and A. L. Wharton, 1958
- Manihot glaziovii*  
Tinsley, T. W. and A. L. Wharton, 1958
- Mansonia altissima*  
Tinsley, T. W. and A. L. Wharton, 1958
- Melochia melissaefolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Melochia pyramidata*  
Tinsley, T. W. and A. L. Wharton, 1958
- Milletia thonningii*  
Tinsley, T. W. and A. L. Wharton, 1958
- Nesogordonia papaverifera*  
Tinsley, T. W. and A. L. Wharton, 1958
- Nicotiana glutinosa*  
Tinsley, T. W. and A. L. Wharton, 1958
- Nicotiana tabacum*  
Tinsley, T. W. and A. L. Wharton, 1958
- Ochroma lagopus (Ochroma pyramidale)*  
Tinsley, T. W. and A. L. Wharton, 1958
- Octolobus angustatus*  
Tinsley, T. W. and A. L. Wharton, 1958
- Omphalocarpum procerum*  
Tinsley, T. W. and A. L. Wharton, 1958
- Pachira oleagina*  
Tinsley, T. W. and A. L. Wharton, 1958
- Pelargonium domesticum*  
Tinsley, T. W. and A. L. Wharton, 1958
- Persea americana*  
Tinsley, T. W. and A. L. Wharton, 1958
- Phaseolus lunatus*  
Tinsley, T. W. and A. L. Wharton, 1958
- Phaseolus vulgaris*  
Tinsley, T. W. and A. L. Wharton, 1958
- Pterygota macrocarpa*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Pycnanthus kombo*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950
- Ricinodendron africanus*  
Posnette, A. F., N. F. Robertson and J. McA.  
Todd, 1950

## VIRUS

## V. CACAO SWOLLEN SHOOT (cont.)

- Ricinodendron heudelotii*  
Tinsley, T. W. and A. L. Wharton, 1958
- Scaphopetalum amoenum*  
Tinsley, T. W. and A. L. Wharton, 1958
- Scytopetalum tieghemii*  
Tinsley, T. W. and A. L. Wharton, 1958
- Sterculia foetida*  
Tinsley, T. W. and A. L. Wharton, 1958
- Sterculia oblonga*  
Tinsley, T. W. and A. L. Wharton, 1958
- Sterculia rhinopetala*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Sterculia tragacantha*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Tarrietia utilis* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Theobroma angustifolia*  
Tinsley, T. W. and A. L. Wharton, 1958
- Theobroma balaoense* \*  
Posnette, A. F. and J. McA. Todd, 1951
- Theobroma bicolor*  
Tinsley, T. W. and A. L. Wharton, 1958
- Theobroma grandiflorum*  
Tinsley, T. W. and A. L. Wharton, 1958
- Theobroma mariae*  
Posnette, A. F. and J. McA. Todd, 1951
- Theobroma obovata*  
Tinsley, T. W. and A. L. Wharton, 1958
- Theobroma speciosa*  
Tinsley, T. W. and A. L. Wharton, 1958
- Thespesia lampas* \*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950
- Thespesia populnea* \*  
Tinsley, T. W. and A. L. Wharton, 1958
- Tilia platyphyllos*  
Tinsley, T. W. and A. L. Wharton, 1958
- Trema guineensis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Triplochiton scleroxylon* \*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950  
Tinsley, T. W. and A. L. Wharton, 1958
- Urena lobata*  
Tinsley, T. W. and A. L. Wharton, 1958
- Vigna sinensis*  
Tinsley, T. W. and A. L. Wharton, 1958
- Waltheria indica*  
Tinsley, T. W. and A. L. Wharton, 1958
- Waltheria lanceolata*  
Tinsley, T. W. and A. L. Wharton, 1958
- Xanthosoma sagittaeifolium*  
Posnette, A. F., N. F. Robertson and J. McA. Todd, 1950

## V. CANNA MOSAIC Fukushi 1932

- Cucumis melo*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Cucumis sativus*  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956  
Celino, M. S. and G. O. Ocfemia, 1941
- Gossypium hirsutum*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Gossypium* spp.  
Celino, M. S. and G. O. Ocfemia, 1941
- Hedychium coronarium*  
Brierley, Philip and Floyd F. Smith, 1948
- Lycopersicon esculentum*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Maranta arundinaceae*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Musa cavendishii*  
Brierley, Philip and Floyd F. Smith, 1948
- Musa ensete*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Musa textilis*  
Brierley, Philip and Floyd F. Smith, 1948

## VIRUS

## V. CANNA MOSAIC (cont.)

- Nicotiana tabacum*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Phaseolus limensis*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Vicia faba*  
Brierley, Philip and Floyd F. Smith, 1948  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956
- Vigna sinensis*  
Castillo, B. S., C. E. Yarwood and A. H. Gold, 1956

## V. CARNATION MOSAIC Creager 1943

- Callistephus chinensis*  
Brierley, Philip and Floyd F. Smith, 1955, 1957
- Cucumis sativus*  
Brierley, Philip and Floyd F. Smith, 1955, 1957
- Gomphrena globosa*  
Brierley, Philip and Floyd F. Smith, 1955
- Nicotiana tabacum*  
Brierley, Philip and Floyd F. Smith, 1955, 1957
- Phaseolus vulgaris*  
Brierley, Philip and Floyd F. Smith, 1955, 1957

## V. CARNATION MOTTLE Kassanis 1955

- Beta vulgaris*  
Brierley, Philip and Floyd F. Smith, 1957
- Callistephus chinensis*  
Brierley, Philip and Floyd F. Smith, 1957
- Nicotiana tabacum*  
Brierley, Philip and Floyd F. Smith, 1957
- Kassanis, B., 1955*
- Phaseolus vulgaris*  
Brierley, Philip and Floyd F. Smith, 1957  
Kassanis, B., 1955

## V. CARNATION VEIN MOTTLE Kassanis 1955

- Gomphrena globosa*  
Kassanis, B., 1955
- Nicotiana tabacum*  
Kassanis, B., 1955
- Phaseolus vulgaris*  
Kassanis, B., 1955

## V. CAULIFLOWER MOSAIC Tompkins 1934

- Abutilon theophrasti*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Alyssum maritimum*  
Caldwell, John and Ian W. Prentice, 1942  
Tompkins, C. M., 1937
- Alyssum saxatile*  
Tompkins, C. M., 1937
- Alyssum saxatile* var. *compactum*  
Caldwell, John and Ian W. Prentice, 1942
- Amaranthus tricolor*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Apium graveolens*  
Alvarez-Garcia, L. A., 1951  
Tompkins, C. M., 1937
- Arabis albida*  
Tompkins, C. M., 1937
- Athysanus pusillus*  
Tompkins, C. M., 1937
- Atropa belladonna*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Barbarea vulgaris*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Berteroa incana*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Beta vulgaris*  
Alvarez-Garcia, L. A., 1951  
Berkeley, G. H. and J. H. Tremaine, 1954  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Beta vulgaris* var. *cicla*  
Alvarez-Garcia, L. A., 1951  
Berkeley, G. H. and J. H. Tremaine, 1954  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945



## VIRUS

- V. CAULIFLOWER MOSAIC (cont.)  
*Brassica juncea* (*Brassica japonica*)  
 Tompkins, C.M., 1937  
*Brassica oleracea* var. *botrytis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
*Brassica rapa*  
 Caldwell, John and Ian W. Prentice, 1942  
*Calendula officinalis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Capsella bursa-pastoris*  
 Caldwell, John and Ian W. Prentice, 1942  
*Capsicum frutescens* (*Capsicum annuum*)  
 Alvarez-Garcia, L.A., 1951  
*Capsicum frutescens* var. *cerasiforme*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Capsicum frutescens* var. *groszum*  
 Tompkins, C.M., 1937  
*Cardamine hirsuta*  
 Caldwell, John and Ian W. Prentice, 1942  
*Cardamine pratensis*  
 Caldwell, John and Ian W. Prentice, 1942  
*Celosia argentea* var. *cristata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Centaurea moschata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Centaurea nigra*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Cheiranthus allionii*  
 Caldwell, John and Ian W. Prentice, 1942  
*Cheiranthus cheiri*  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
*Chenopodium album*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Cucumis sativus*  
 Alvarez-Garcia, L.A., 1951  
*Datura metel*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Datura meteloides*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Datura stramonium*  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Delphinium ajacis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Digitalis purpurea*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Dimorphotheca aurantiaca*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Dolichos lablab*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Erysimum perofskianum*  
 Tompkins, C.M., 1937  
*Erysimum* spp.  
 Caldwell, John and Ian W. Prentice, 1942  
*Glycine max*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Godetia amoena*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Gomphrena globosa*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
*Hesperis matronalis*  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

## VIRUS

- V. CAULIFLOWER MOSAIC (cont.)  
*Hesperis* spp.  
 Caldwell, John and Ian W. Prentice, 1942  
*Hibiscus esculentus*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Iberis amara*  
 Caldwell, John and Ian W. Prentice, 1942  
*Ipomoea purpurea*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Isatis glauca*  
 Caldwell, John and Ian W. Prentice, 1942  
*Lactuca sativa*  
 Alvarez-Garcia, L.A., 1951  
*Lactuca sativa* var. *capitata*  
 Tompkins, C.M., 1937  
*Lactuca sativa* var. *romana*  
 Tompkins, C.M., 1937  
*Lycium halimifolium*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Lycopersicon esculentum*  
 Alvarez-Garcia, L.A., 1951  
 Caldwell, John and Ian W. Prentice, 1942  
*Lycopersicon esculentum* var. *vulgare*  
 Tompkins, C.M., 1937  
*Lycopersicon pimpinellifolium*  
 Tompkins, C.M., 1937  
*Malcomia maritima*  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Matthiola incana* var. *annua*  
 Caldwell, John and Ian W. Prentice, 1942  
*Medicago sativa*  
 Alvarez-Garcia, L.A., 1951  
*Mirabilis jalapa*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nasturtium officinale*  
 Caldwell, John and Ian W. Prentice, 1942  
*Nasturtium palustre*  
 Caldwell, John and Ian W. Prentice, 1942  
*Nicandra physalodes*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana acuminata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana affinis*  
 Caldwell, John and Ian W. Prentice, 1942  
*Nicotiana alata* var. *grandiflora*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana glutinosa*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Smith, Kenneth M., 1935  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana langsdorffii*  
 Alvarez-Garcia, L.A., 1951  
 Tompkins, C.M., 1937  
*Nicotiana longiflora*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana multivalvis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana nudicaulis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana paniculata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945  
*Nicotiana quadrivalvis*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

## VIRUS

## V. CAULIFLOWER MOSAIC (cont.)

- Nicotiana rustica*  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana rustica* var. *jamaicensis* \*  
 Caldwell, John and Ian W. Prentice, 1942
- Nicotiana sanderae*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana sylvestris*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana tabacum*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Caldwell, John and Ian W. Prentice, 1942  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Nicotiana trigonophylla*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Petunia hybrida*  
 Berkeley, G.H. and J.H. Tremaine, 1954
- Phaseolus coccineus*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Phaseolus vulgaris*  
 Alvarez-Garcia, L.A., 1951
- Physalis pubescens*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Physalis* spp.  
 Alvarez-Garcia, L.A., 1951
- Pisum sativum*  
 Alvarez-Garcia, L.A., 1951
- Portulaca* spp.  
 Alvarez-Garcia, L.A., 1951
- Reseda odorata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Rorippa nasturtium*  
 Tompkins, C.M., 1937
- Salpiglossis sinuata*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Scabiosa atropurpurea*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Senecio cruentus*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Sisymbrium alliaria*  
 Caldwell, John and Ian W. Prentice, 1942
- Solanum dulcamara*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum integrifolium*  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum melongena*  
 Alvarez-Garcia, L.A., 1951
- Solanum nigrum*  
 Alvarez-Garcia, L.A., 1951
- Solanum pseudocapsicum*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum rostratum*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Spinacia oleracea*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954  
 Tompkins, C.M., 1937  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Stanleya pinnata*  
 Tompkins, C.M., 1937
- Stellaria media*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945

## VIRUS

## V. CAULIFLOWER MOSAIC (cont.)

- Tagetes patula*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Thlaspi arvense*  
 Caldwell, John and Ian W. Prentice, 1942
- Thysanocarpus radians*  
 Tompkins, C.M., 1937
- Tropaeolum majus*  
 Tompkins, C.M., 1937
- Verbena hybrida*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Vicia faba*  
 Tompkins, C.M., 1937
- Vigna sinensis*  
 Alvarez-Garcia, L.A., 1951  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Vinca minor*  
 Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Zinnia elegans*  
 Alvarez-Garcia, L.A., 1951  
 Berkeley, G.H. and J.H. Tremaine, 1954
- V. CELERY MOSAIC Holmes 1939
- Beta vulgaris*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Bidens leucantha*  
 Doolittle, S.P. and F.L. Wellman, 1934
- Brassica oleracea* var. *botrytis*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Calendula officinalis*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Capsicum frutescens* var. *grosso*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Cichorium intybus*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Conium maculatum*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Cucumis sativus*  
 Freitag, Julius H. and Henry H.P. Severin, 1945  
 Severin, Henry H.P. and Julius H. Freitag, 1938
- Cucurbita pepo*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Datura stramonium*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Dimorphotheca aurantiaca*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Heracleum maximum* (*Heracleum lanatum*)  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Lactuca sativa* var. *capitata*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Lycopersicon esculentum* var. *commune* \*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Nicotiana glutinosa*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Nicotiana tabacum*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Parthenium argentatum*  
 Severin, Henry H.P., 1945
- Solanum melongena* var. *esculentum*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Solanum tuberosum*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Spinacia oleracea* var. *inermis* \*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- Zinnia elegans*  
 Freitag, Julius H. and Henry H.P. Severin, 1945
- V. CHERRY FRECKLE FRUIT DISEASE \*
- Prunus armeniaca*  
 Williams, H.E. and J.A. Milbrath, 1955
- Prunus persica* (*Amygdalus persica*)  
 Williams, H.E. and J.A. Milbrath, 1955
- V. CHERRY LITTLE CHERRY Foster and Lott 1947
- Prunus demissa*  
 Wilks, Jack M. and J.A. Milbrath, 1956
- Prunus persica* (*Amygdalus persica*)  
 Milbrath, J.A. and H.E. Williams, 1956

- VIRUS  
V. CHERRY RUGOSE MOSAIC Thomas and Rawlins 1951  
*Prunus domestica*  
Berkeley, G.H., 1950
- V. CHILLI (PEPPER) MOSAIC Ferguson 1951  
*Apium graveolens*  
Dale, W. T., 1954  
*Beta vulgaris*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Brassica campestris* var. *toria* \*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Brassica oleracea* var. *botrytis*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Brassica oleracea* var. *capitata*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Brassica oleracea* var. *caulorapa*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Brassica rapa*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cajanus cajan*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Calendula officinalis*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Callistephus chinensis*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Chenopodium hybridum*  
Dale, W. T., 1954  
*Chrysanthemum morifolium*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cicer arietinum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Citrullus vulgaris*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Citrullus vulgaris* var. *fistulosus* \*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Citrus limon*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Crotalaria juncea*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Crotalaria mucronata*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cucumis melo*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Cucumis sativus*  
Dale, W. T., 1954  
*Cucurbita pepo*  
Dale, W. T., 1954  
*Cyamopsis tetragonoloba*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Daucus carota*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Dolichos lablab*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Gossypium arboreum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Hibiscus rosa-sinensis*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Lagenaria siceraria* (*Lagenaria leucantha*)  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Lycopersicon esculentum*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Medicago sativa*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Momordica charantia*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Nicotiana glauca*  
Adsuar, J. and L. Lopez Matos, 1955  
*Nicotiana glutinosa*  
Ferguson, I. A. C., 1951  
*Nicotiana rustica*  
Ferguson, I. A. C., 1951  
*Nicotiana glauca*  
Ferguson, I. A. C., 1951  
*Phaseolus vulgaris*  
Dale, W. T., 1954  
*Pisum sativum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Psidium guajava*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Raphanus sativus*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
- VIRUS  
V. CHILLI (PEPPER MOSAIC (cont.))  
*Solanum melongena*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Solanum nodiflorum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Solanum tuberosum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Tagetes erecta*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Trifolium alexandrinum*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Vicia faba*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Vigna unguiculata*  
Dale, W. T., 1954  
Ferguson, I. A. C., 1951  
*Vinca rosea*  
Jha, Ashrafi and S.P. Raychaudhuri, 1956  
*Zinnia elegans*  
Dale, W. T., 1954  
Jha, Ashrafi and S.P. Raychaudhuri, 1956
- V. CHILLI VEINBANDING Simon 1956  
*Amaranthus spinosus*  
Simons, John N., 1956  
*Apium graveolens* var. *dulce*  
Simons, John N., 1956  
*Beta vulgaris* var. *cicla*  
Simons, John N., 1956  
*Brassica oleracea*  
Simons, John N., 1956  
*Commelina* spp.  
Simons, John N., 1956  
*Cucumis sativus*  
Simons, John N., 1956  
*Cucurbita pepo* var. *melo pepo*  
Simons, John N., 1956  
*Datura stramonium*  
Simons, John N., 1956  
*Medicago sativa*  
Simons, John N., 1956  
*Vigna sinensis*  
Simons, John N., 1956
- V. CHRYSANTHEMUM B (MILD MOSAIC) \*  
*Ageratum conyzoides*  
Hollings, M., 1957  
*Alonsoa warscewiczii*  
Hollings, M., 1957  
*Amaranthus caudatus*  
Hollings, M., 1957  
*Anchusa azurea*  
Hollings, M., 1957  
*Antirrhinum majus*  
Hollings, M., 1957  
*Apium graveolens*  
Hollings, M., 1957  
*Aquilegia caerulea*  
Hollings, M., 1957  
*Beta vulgaris*  
Hollings, M., 1957  
*Brassica oleracea* var. *botrytis*  
Hollings, M., 1957  
*Brassica oleracea* var. *capitata*  
Hollings, M., 1957  
*Brassica oleracea* var. *gemmifera*  
Hollings, M., 1957  
*Brassica oleracea* var. *italica* \*  
Hollings, M., 1957  
*Brassica pekinensis*  
Hollings, M., 1957  
*Brassica rapa*  
Hollings, M., 1957  
*Calendula chrysantha*  
Hollings, M., 1957  
*Callistephus chinensis*  
Hollings, M., 1957  
*Calystegia sepium*  
Hollings, M., 1957  
*Capsicum frutescens* (*Capsicum annum*)  
Hollings, M., 1957

## VIRUS

## V. CHRYSANTHEMUM B (MILD MOSAIC) \* (cont.)

*Celosia argentea*  
 Hollings, M., 1957  
*Cheiranthus cheiri*  
 Hollings, M., 1957  
*Chenopodium album*  
 Hollings, M., 1957  
*Chenopodium amaranticolor*  
 Hollings, M., 1957  
*Convolvulus tricolor*  
 Hollings, M., 1957  
*Cucumis sativus*  
 Hollings, M., 1957  
*Cucurbita pepo*  
 Hollings, M., 1957  
*Dahlia pinnata*  
 Hollings, M., 1957  
*Datura stramonium*  
 Hollings, M., 1957  
*Delphinium grandiflorum*  
 Hollings, M., 1957  
*Dianthus barbatus*  
 Hollings, M., 1957  
*Epilobium montanum*  
 Hollings, M., 1957  
*Fagopyrum esculentum*  
 Hollings, M., 1957  
*Geum chiloensis*  
 Hollings, M., 1957  
*Gomphrena globosa*  
 Hollings, M., 1957  
*Helichrysum bracteatum*  
 Hollings, M., 1957  
*Lactuca muralis*  
 Hollings, M., 1957  
*Lactuca sativa*  
 Hollings, M., 1957  
*Lavatera trimestris*  
 Hollings, M., 1957  
*Lobularia maritima*  
 Hollings, M., 1957  
*Lupinus polyphyllus*  
 Hollings, M., 1957  
*Lycopersicon esculentum*  
 Hollings, M., 1957  
*Lythrum salicaria*  
 Hollings, M., 1957  
*Matthiola incana* var. *annua*  
 Hollings, M., 1957  
*Medicago sativa*  
 Hollings, M., 1957  
*Melilotus alba*  
 Hollings, M., 1957  
*Mimulus luteus*  
 Hollings, M., 1957  
*Myosotis sylvatica*  
 Hollings, M., 1957  
*Nicandra physalodes*  
 Hollings, M., 1957  
*Nicotiana tabacum*  
 Hollings, M., 1957  
*Papaver rhoeas*  
 Hollings, M., 1957  
*Papaver somniferum*  
 Hollings, M., 1957  
*Pelargonium domesticum*  
 Hollings, M., 1957  
*Phaseolus vulgaris*  
 Hollings, M., 1957  
*Phlox drummondii*  
 Hollings, M., 1957  
*Physalis floridana*  
 Hollings, M., 1957  
*Phytolacca americana*  
 Hollings, M., 1957  
*Pisum sativum*  
 Hollings, M., 1957  
*Plantago lanceolata*  
 Hollings, M., 1957  
*Portulaca oleracea*  
 Hollings, M., 1957  
*Primula malacoides*  
 Hollings, M., 1957

## VIRUS

## V. CHRYSANTHEMUM B (MILD MOSAIC) \* (cont.)

*Primula sinensis*  
 Hollings, M., 1957  
*Ranunculus ficaria*  
 Hollings, M., 1957  
*Ranunculus repens*  
 Hollings, M., 1957  
*Raphanus sativus*  
 Hollings, M., 1957  
*Saintpaulia ionantha*  
 Hollings, M., 1957  
*Salpiglossis sinuata*  
 Hollings, M., 1957  
*Salvia splendens*  
 Hollings, M., 1957  
*Schizanthus pinnatus*  
 Hollings, M., 1957  
*Solanum tuberosum*  
 Hollings, M., 1957  
*Spinacia oleracea*  
 Hollings, M., 1957  
*Stellaria media*  
 Hollings, M., 1957  
*Tagetes erecta*  
 Hollings, M., 1957  
*Taraxacum officinale*  
 Hollings, M., 1957  
*Trifolium repens*  
 Hollings, M., 1957  
*Tropaeolum majus*  
 Hollings, M., 1957  
*Verbena hybrida*  
 Hollings, M., 1957  
*Vigna sinensis*  
 Hollings, M., 1957  
*Zinnia elegans*  
 Hollings, M., 1957

## V. CHRYSANTHEMUM LATENT \*

*Beta vulgaris*  
 Hollings, M., 1957  
*Brassica pekinensis*  
 Hollings, M., 1957  
*Cucumis sativus*  
 Hollings, M., 1957  
*Dianthus barbatus*  
 Hollings, M., 1957  
*Lycopersicon esculentum*  
 Hollings, M., 1957  
*Lythrum salicaria*  
 Hollings, M., 1957  
*Passiflora caerulea*  
 Hollings, M., 1957  
*Phaseolus vulgaris*  
 Hollings, M., 1957  
*Phytolacca americana*  
 Hollings, M., 1957  
*Plantago lanceolata*  
 Hollings, M., 1957  
*Portulaca oleracea*  
 Hollings, M., 1957  
*Primula malacoides*  
 Hollings, M., 1957  
*Spinacia oleracea*  
 Hollings, M., 1957  
*Stellaria media*  
 Hollings, M., 1957

## V. CHRYSANTHEMUM Q Keller 1950

*Lycopersicon esculentum*  
 Brierley, Philip and Floyd F. Smith, 1953  
*Nicotiana tabacum*  
 Brierley, Philip and Floyd F. Smith, 1953

## V. CHRYSANTHEMUM RING SPOT Brierley and Smith 1955

*Antirrhinum majus*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Callistephus chinensis*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Datura stramonium*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Gomphrena globosa*  
 Brierley, Philip and Floyd F. Smith, 1955

## VIRUS

- V. CHRYSANTHEMUM RING SPOT (cont.)  
*Nicotiana glutinosa*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Nicotiana tabacum*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Petunia hybrida*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Phaseolus vulgaris*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Physalis angulata*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Senecio cruentus*  
 Brierley, Philip and Floyd F. Smith, 1955  
*Zinnia elegans*  
 Brierley, Philip and Floyd F. Smith, 1955
- V. CHRYSANTHEMUM STUNT Brierley and Smith 1949  
*Achillea filipendulina*  
 Brierley, Philip, 1953  
*Ageratum houstonianum*  
 Brierley, Philip, 1953  
*Ambrosia artemisiifolia*  
 Brierley, Philip, 1953  
*Arctotis stoechadifolia* var. *grandis*  
 Brierley, Philip, 1953  
*Artemisia vulgaris*  
 Brierley, Philip, 1953  
*Boltonia latiscuama*  
 Brierley, Philip, 1953  
*Brickellia laciniata*  
 Brierley, Philip, 1953  
*Calendula officinalis*  
 Brierley, Philip, 1953  
*Callistephus chinensis*  
 Brierley, Philip, 1953  
*Catananche caerulea*  
 Brierley, Philip, 1953  
*Centaurea imperialis*  
 Brierley, Philip, 1953  
*Cichorium intybus*  
 Brierley, Philip, 1953  
*Coreopsis douglasii*  
 Brierley, Philip, 1953  
*Coreopsis drummondii*  
 Brierley, Philip, 1953  
*Coreopsis lanceolata*  
 Brierley, Philip, 1953  
*Cosmos bipinnatus*  
 Brierley, Philip, 1953  
*Cucumis sativus*  
 Keller, John R., 1953  
*Cuscuta gronovii*  
 Keller, John R., 1953  
*Cynara cardunculus*  
 Brierley, Philip, 1953  
*Doronicum cordatum*  
 Brierley, Philip, 1953  
*Echinops ritro*  
 Brierley, Philip, 1953  
*Gaillardia pulchella* var. *picta*  
 Brierley, Philip, 1953  
*Galinsoga parviflora*  
 Brierley, Philip, 1953  
*Gazania* spp.  
 Brierley, Philip, 1953  
*Gerbera jamesonii*  
 Brierley, Philip, 1953  
*Helianthus cucumerifolius*  
 Brierley, Philip, 1953  
*Helichrysum bracteatum*  
 Brierley, Philip, 1953  
*Lactuca sativa*  
 Brierley, Philip, 1953  
*Ligularia clivorum*  
 Brierley, Philip, 1953  
*Nicotiana glutinosa*  
 Brierley, Philip, 1953  
*Nicotiana tabacum*  
 Brierley, Philip, 1953  
*Phaseolus vulgaris*  
 Brierley, Philip, 1953  
*Rudbeckia serotina*  
 Brierley, Philip, 1953

## VIRUS

- V. CHRYSANTHEMUM STUNT (cont.)  
*Senecio elegans*  
 Brierley, Philip, 1953  
*Stokesia laevis*  
 Brierley, Philip, 1953  
*Tagetes erecta*  
 Brierley, Philip, 1953  
*Tragopogon porrifolius*  
 Brierley, Philip, 1953  
*Tropaeolum majus* var. *nanum*  
 Keller, John R., 1953  
*Xeranthemum annuum*  
 Brierley, Philip, 1953
- V. CINERARIA MOSAIC Jones 1942  
*Cucumis sativus*  
 Jones, Leon K., 1944  
*Lactuca sativa*  
 Jones, Leon K., 1944  
*Lycopersicon esculentum*  
 Jones, Leon K., 1944  
*Nicotiana tabacum*  
 Jones, Leon K., 1944  
*Pisum sativum*  
 Jones, Leon K., 1944
- V. CITRUS EXOCORTIS Moreira 1955  
*Citrus aurantifolia*  
 Olson, E.O. and A.V. Shull, 1956
- V. CITRUS PSOROSIS ((Swingle and Weber 1896))  
*Cuscuta californica* Fawcett 1936  
 Bennett, C.W., 1944  
*Cuscuta campestris*  
 Bennett, C.W., 1944  
*Cuscuta subinclusa*  
 Bennett, C.W., 1944
- V. CITRUS TRISTEZA Meneghini 1946  
*Acanthospermum hispidum*  
 Bennett, C.W. and A.S. Costa, 1949  
*Aegle marmelos*  
 Knorr, L.C., 1956  
*Aeglopsis chevalieri*  
 Knorr, L.C., 1956  
*Amaranthus caudatus*  
 Bennett, C.W. and A.S. Costa, 1949  
*Atalantia ceylanica*  
 Knorr, L.C., 1956  
*Atalantia citroides*  
 Knorr, L.C., 1956  
*Beta vulgaris*  
 Knorr, L.C., 1956  
*Brassica oleracea*  
 Knorr, L.C., 1956  
*Brassica pekinensis*  
 Bennett, C.W. and A.S. Costa, 1949  
*Calendula* spp.  
 Knorr, L.C., 1956  
*Callistephus chinensis*  
 Bennett, C.W. and A.S. Costa, 1949  
*Canavalia ensiformis*  
 Bennett, C.W. and A.S. Costa, 1949  
*Capsicum* spp.  
 Knorr, L.C., 1956  
*Casimiroa edulis*  
 Knorr, L.C., 1956  
*Celosia* spp.  
 Knorr, L.C., 1956  
*Citrus grandis*  
 Knorr, L.C., 1956  
*Citrus limon*  
 Knorr, L.C., 1956  
*Citrus nobilis* var. *unshiu* on *Citrus sinensis* x  
*Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954  
*Citrus nobilis* var. *unshiu* on *Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954  
*Citrus paradisi* on *Citrus paradisi* x *Poncirus trifoliata*  
 Olson, Edward O. and James R. McDonald, 1954

## VIRUS

## V. CITRUS TRISTEZA (cont.)

- Citrus paradisi* x *Citrus reticulata* on *Citrus sinensis* x *Poncirus trifoliata*  
Olson, Edward O. and James R. McDonald, 1954
- Citrus paradisi* on *Citrus sinensis* x *Poncirus trifoliata*  
Olson, Edward O. and James R. McDonald, 1954
- Citrus reticulata*  
Knorr, L. C., 1956
- Citrus sinensis*  
Olson, Edward O. and James R. McDonald, 1954
- Citrus sinensis* on *Citrus paradisi* x *Poncirus trifoliata*  
Olson, Edward O. and James R. McDonald, 1954
- Citrus sinensis* on *Poncirus trifoliata*  
Olson, Edward O. and James R. McDonald, 1954
- Cucumis sativus*  
Knorr, L. C., 1956
- Cuscuta americana*  
Bennett, C. W. and A. S. Costa, 1949
- Cuscuta campestris*  
Bennett, C. W. and A. S. Costa, 1949
- Cuscuta indecora*  
Bennett, C. W. and A. S. Costa, 1949
- Cuscuta subinclusa*  
Bennett, C. W. and A. S. Costa, 1949
- Datura* spp.  
Bennett, C. W. and A. S. Costa, 1949  
Knorr, L. C., 1956
- Datura stramonium*  
Bennett, C. W. and A. S. Costa, 1949
- Dianthus caryophyllus*  
Knorr, L. C., 1956
- Erigeron bonariensis*  
Bennett, C. W. and A. S. Costa, 1949
- Euphorbia pilulifera*  
Bennett, C. W. and A. S. Costa, 1949
- Euphorbia prunifolia*  
Bennett, C. W. and A. S. Costa, 1949
- Evodia* spp.  
Knorr, L. C., 1956
- Fortunella margarita* on *Poncirus trifoliata*  
Olson, Edward O. and James R. McDonald, 1954
- Gossypium hirsutum*  
Bennett, C. W. and A. S. Costa, 1949
- Gycosmis citrifolia* \*  
Knorr, L. C., 1956
- Iberis* spp.  
Knorr, L. C., 1956
- Lactuca sativa*  
Knorr, L. C., 1956
- Luffa* spp.  
Knorr, L. C., 1956
- Lycopersicon esculentum*  
Bennett, C. W. and A. S. Costa, 1949
- Murraya koenigii*  
Knorr, L. C., 1956
- Nicotiana glauca*  
Bennett, C. W. and A. S. Costa, 1949
- Nicotiana tabacum*  
Bennett, C. W. and A. S. Costa, 1949  
Knorr, L. C., 1956
- Ocimum basilicum*  
Knorr, L. C., 1956
- Oxalis* spp.  
Bennett, C. W. and A. S. Costa, 1949
- Phaseolus vulgaris*  
Bennett, C. W. and A. S. Costa, 1949
- Phyllanthus corcovadensis*  
Bennett, C. W. and A. S. Costa, 1949
- Ptelea trifoliata*  
Knorr, L. C., 1956
- Ruta chalepensis*  
Knorr, L. C., 1956
- Ruta graveolens*  
Knorr, L. C., 1956
- Ruta* spp.  
Bennett, C. W. and A. S. Costa, 1949
- Severinia buxifolia*  
Knorr, L. C., 1956
- Severinia disticha*  
Knorr, L. C., 1956
- Solanum tuberosum*  
Bennett, C. W. and A. S. Costa, 1949

## VIRUS

## V. CITRUS TRISTEZA (cont.)

- Spinacia oleracea*  
Bennett, C. W. and A. S. Costa, 1949
- Stellaria media*  
Bennett, C. W. and A. S. Costa, 1949
- Swinglea gultinosa*  
Knorr, L. C., 1956
- Triphasia trifolia*  
Knorr, L. C., 1956
- Vigna sinensis*  
Bennett, C. W. and A. S. Costa, 1949
- Zinnia* spp.  
Knorr, L. C., 1956
- V. CITRUS XYLOPOROSIS Reichert and Perlberger 1934
- Citrus aurantifolia*  
Olson, E. O. and A. V. Shull, 1956
- Citrus paradisi* x *Citrus reticulata*  
Olson, E. O. and A. V. Shull, 1956
- V. CLOVER BIG VEIN Black 1944
- Medicago sativa*  
Black, L. M. and M. K. Brakke, 1952
- V. CLOVER WITCHES' BROOM \*
- Cuscuta campestris*  
Frazier, N. W. and A. F. Posnette, 1957
- Cuscuta europaea*  
Frazier, N. W. and A. F. Posnette, 1957
- Cuscuta subinclusa*  
Frazier, N. W. and A. F. Posnette, 1957
- V. CORN NEW MOSAIC \*
- Avena sativa*  
Finley, A. M., 1954
- V. COWPEA MOSAIC
- Ambrosia artemisiifolia*  
Anderson, C. W., 1955
- Apium graveolens*  
Anderson, C. W., 1955  
Yu, T. F., 1946
- Arachis hypogaea*  
Yu, T. F., 1946
- Beta vulgaris*  
Yu, T. F., 1946
- Bidens pilosa*  
Anderson, C. W., 1955
- Cajanus cajan*  
Capoor, S. P. and P. M. Varma, 1956
- Canavalia ensiformis*  
Yu, T. F., 1946
- Capsicum frutescens* (*Capsicum annum*)  
Anderson, C. W., 1955  
Capoor, S. P. and P. M. Varma, 1956  
McLean, D. M., 1941  
Yu, T. F., 1946
- Commelina nudiflora*  
Anderson, C. W., 1955
- Crotalaria retusa*  
Capoor, S. P. and P. M. Varma, 1956
- Cucumis sativus*  
Anderson, C. W., 1955  
Capoor, S. P. and P. M. Varma, 1956  
Dale, W. T., 1949  
McLean, D. M., 1941  
Yu, T. F., 1946
- Cucurbita pepo*  
Capoor, S. P. and P. M. Varma, 1956
- Datura innoxia*  
Capoor, S. P. and P. M. Varma, 1956
- Datura stramonium*  
McLean, D. M., 1941  
Yu, T. F., 1946
- Dolichos biflorus*  
Capoor, S. P. and P. M. Varma, 1956
- Dolichos lablab*  
Capoor, S. P. and P. M. Varma, 1956  
Yu, T. F., 1946
- Glycine max*  
Yu, T. F., 1946
- Lagenaria siceraria* (*Lagenaria leucantha*)  
Capoor, S. P. and P. M. Varma, 1956

## VIRUS

## V. COWPEA MOSAIC (cont.)

- Lathyrus odoratus*  
McLean, D.M., 1941  
Yu, T.F., 1946
- Lathyrus sativus*  
Capoor, S.P. and P.M. Varma, 1956
- Lens esculenta*  
Yu, T.F., 1946
- Lespedeza bicolor*  
Yu, T.F., 1946
- Lupinus albus*  
Yu, T.F., 1946
- Lycopersicon esculentum*  
Anderson, C.W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W.T., 1949  
McLean, D.M., 1941  
Yu, T.F., 1946
- Lycopersicon pimpinellifolium*  
Yu, T.F., 1946
- Medicago sativa*  
Capoor, S.P. and P.M. Varma, 1956  
Yu, T.F., 1946
- Melilotus alba*  
Yu, T.F., 1946
- Mucuna deeringianum*  
Capoor, S.P. and P.M. Varma, 1956
- Nicotiana glutinosa*  
Anderson, C.W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W.T., 1949  
McLean, D.M., 1941
- Nicotiana rustica*  
Capoor, S.P. and P.M. Varma, 1956
- Nicotiana tabacum*  
Anderson, C.W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W.T., 1949  
McLean, D.M., 1941  
Yu, T.F., 1946
- Pachyrhizus tuberosus*  
Yu, T.F., 1946
- Petunia hybrida*  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941  
Yu, T.F., 1946
- Phaseolus aconitifolius*  
Capoor, S.P. and P.M. Varma, 1956
- Phaseolus aureus*  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941
- Phaseolus lunatus*  
McLean, D.M., 1941
- Phaseolus mungo*  
Capoor, S.P. and P.M. Varma, 1956
- Phaseolus trilobus*  
Capoor, S.P. and P.M. Varma, 1956
- Phaseolus vulgaris*  
Anderson, C.W., 1955  
Capoor, S.P. and P.M. Varma, 1956  
Dale, W.T., 1949  
McLean, D.M., 1941  
Yu, T.F., 1946
- Physalis peruviana*  
Capoor, S.P. and P.M. Varma, 1956
- Phytolacca rigida*  
Anderson, C.W., 1955
- Pisum sativum*  
Anderson, C.W., 1955  
McLean, D.M., 1941  
Yu, T.F., 1946
- Pisum sativum var. arvense*  
McLean, D.M., 1941  
Yu, T.F., 1946
- Sesbania speciosa*  
Capoor, S.P. and P.M. Varma, 1956
- Sida* spp.  
Anderson, C.W., 1955
- Solanum melongena*  
Capoor, S.P. and P.M. Varma, 1956  
Yu, T.F., 1946
- Solanum nigrum*  
Capoor, S.P. and P.M. Varma, 1956

## VIRUS

## V. COWPEA MOSAIC (cont.)

- Solanum tuberosum*  
McLean, D.M., 1941  
Yu, T.F., 1946
- Spinacia oleracea*  
Capoor, S.P. and P.M. Varma, 1956
- Trifolium pratense*  
Yu, T.F., 1946
- Trifolium repens*  
Yu, T.F., 1946
- Tropaeolum majus*  
Capoor, S.P. and P.M. Varma, 1956
- Vicia faba*  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941  
Yu, T.F., 1946
- Vicia sativa*  
Yu, T.F., 1946
- Vicia villosa*  
Yu, T.F., 1946
- Zinnia elegans*  
Capoor, S.P. and P.M. Varma, 1956  
McLean, D.M., 1941  
Yu, T.F., 1946
- V. CROTALARIA MOSAIC Johnson and Lefebvre 1938  
*Carica papaya*  
Jensen, D.D., 1949
- V. CUCUMBER GREEN MOTTLE MOSAIC Ainsworth 1935 (This virus is serologically related to V. Tobacco mosaic and is generally regarded as a strain of it, but see Knight 1955.)
- Brassica chinensis*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Brassica oleracea*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Brassica oleracea var. gongylodes*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Bryonia dioica*  
Ainsworth, G.C., 1935
- Cajanus cajan*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Capsicum frutescens (Capsicum annum)*  
Vasudeva, R.S. and T.K. Nariani, 1952
- Cicer arietinum*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Citrullus vulgaris*  
Ainsworth, G.C., 1935
- Cucurbita pepo*  
Ainsworth, G.C., 1935
- Cuscuta campestris*  
Johnson, Folke, 1941
- Datura stramonium*  
Ainsworth, G.C., 1935
- Hibiscus esculentus*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Lycopersicon esculentum*  
Ainsworth, G.C., 1935  
Vasudeva, R.S. and T.K. Nariani, 1952  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Nicotiana glutinosa*  
Ainsworth, G.C., 1935  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Nicotiana tabacum*  
Ainsworth, G.C., 1935  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Nicotiana tabacum x Nicotiana glutinosa*  
Fulton, Robert W., 1950
- Petunia hybrida*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- Pisum sativum*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949

## VIRUS

## V. CUCUMBER GREEN MOTTLE MOSAIC (cont.)

- Solanum nigrum*  
Ainsworth, G.C., 1935
- Vigna sinensis*  
Vasudeva, R.S., S.P. Raychaudhuri and Jagannath Singh, 1949
- V. CUCUMBER MOSAIC Doolittle 1916, 1920
- Abelmoschus esculentus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Achillea millefolium*  
Wellman, F.L., 1935
- Adenoropium gossypifolium*  
Adsuar, Jose and A. Cruz Miret, 1950
- Adiantum capillus-veneris*  
Wellman, F.L., 1935
- Agapanthus africanus*  
Brierley, Philip and Floyd F. Smith, 1944
- Ageratum houstonianum*  
Wellman, F.L., 1935
- Allium cepa*  
Brierley, Philip and Floyd F. Smith, 1944
- Allium cernuum*  
Brierley, Philip and Floyd F. Smith, 1944
- Allium odorum*  
Brierley, Philip and Floyd F. Smith, 1944
- Allium speciosum*  
Brierley, Philip and Floyd F. Smith, 1944
- Aloe* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Alsine media*  
Wellman, F.L., 1935
- Althaea rosea*  
Burnett, G., 1934
- Amaranthus cruentus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Amaranthus dubius*  
Adsuar, Jose and A. Cruz Miret, 1950
- Amaranthus hybridus*  
Wellman, F.L., 1935
- Amaranthus retroflexus*  
Burnett, G., 1934
- Amaranthus spinosus*  
Wellman, F.L., 1935
- Amaryllis (Hippeastrum) vittatum*  
Wellman, F.L., 1935
- Ambrosia artemisiifolia*  
Anderson, C.W., 1955
- Ananas sativus*  
Wellman, F.L., 1935
- Anchusa officinalis*  
Wellman, F.L., 1935
- Antirrhinum majus*  
Govier, D.A., 1957
- Apium graveolens*  
Bhargava, K.S., 1951
- Apium graveolens* var. *dulce*  
Simons, John N., 1957
- Arachis hypogaea*  
Wellman, F.L., 1935
- Asparagus asparagoides*  
Brierley, Philip and Floyd F. Smith, 1944
- Asparagus officinalis*  
Wellman, F.L., 1935
- Asparagus plumosus*  
Wellman, F.L., 1935
- Asparagus sprengeri*  
Brierley, Philip and Floyd F. Smith, 1944
- Asphodeline lutea*  
Brierley, Philip and Floyd F. Smith, 1944
- Aster novae-angliae*  
Wellman, F.L., 1935
- Aster* spp.  
Burnett, G., 1934
- Avena sativa*  
McWhorter, F.P. and H.H. Millsap, 1954  
Wellman, F.L., 1935
- Belamcanda chinensis*  
Brierley, Philip and Floyd F. Smith, 1944
- Beta vulgaris*  
Adsuar, Jose and A. Cruz Miret, 1950  
Govier, D.A., 1957  
Nienow, Inez, 1948

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Beta vulgaris* var. *cicla*  
Govier, D.A., 1957
- Bidens cynapiifolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Bidens leucantha* \*  
Wellman, F.L., 1935
- Bidens pilosa*  
Anderson, C.W., 1955
- Brassica campestris* var. *napobrassica*  
Wellman, F.L., 1935
- Brassica hirta* (*Brassica alba*)  
Johnson, E.M., 1930  
Wellman, F.L., 1935
- Brassica napus*  
Wellman, F.L., 1935
- Brassica nigra*  
Wellman, F.L., 1935
- Brassica oleracea*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Johnson, E.M., 1930  
Simons, John N., 1957
- Brassica oleracea* var. *acephala*  
Wellman, F.L., 1935
- Brassica oleracea* var. *botrytis*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Wellman, F.L., 1935
- Brassica oleracea* var. *capitata*  
Berkeley, G.H. and J.H. Tremaine, 1954
- Brassica oleracea* var. *caulorapa*  
Nienow, Inez, 1948  
Wellman, F.L., 1935
- Brassica oleracea* var. *gemmifera*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Wellman, F.L., 1935
- Brassica oleracea* var. *gongylodes*  
Berkeley, G.H. and J.H. Tremaine, 1954
- Brassica oleracea* var. *viridis*  
Berkeley, G.H. and J.H. Tremaine, 1954
- Brassica pekinensis*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Wellman, F.L., 1935
- Brassica rapa*  
Brierley, Philip and Floyd F. Smith, 1944  
Nienow, Inez, 1948  
Wellman, F.L., 1935
- Brassica rapa* var. *depressa* \*  
Johnson, E.M., 1930
- Brodiaea uniflora*  
Brierley, Philip and Floyd F. Smith, 1944
- Calendula officinalis*  
Wellman, F.L., 1935
- Callistephus chinensis*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Simons, John N., 1957  
Wellman, F.L., 1935
- Camassia leichtlinii*  
Brierley, Philip and Floyd F. Smith, 1944
- Campanula medium*  
Wellman, F.L., 1935
- Canavalia ensiformis*  
Anderson, C.W., 1955
- Canavalia gladiata*  
Anderson, C.W., 1955
- Canna edulis*  
Celino, Martin S., 1940
- Canna glauca*  
Wellman, F.L., 1935
- Capsicum frutescens* (*Capsicum annum*)  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C.W. and M.K. Corbett, 1957  
Burnett, G., 1934  
Govier, D.A., 1957  
Vasudeva, R. Sahai and T.B. Lal, 1943
- Capsicum frutescens* var. *cerasiforme*  
Pound, Glenn S. and J.C. Walker, 1948
- Carica papaya*  
Adsuar, Jose and A. Cruz Miret, 1950  
Wellman, F.L., 1935
- Cassia tora*  
Anderson, C.W., 1954, 1955



## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Catharanthus roseus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Celeri graveolens*  
Adsuar, Jose and A. Cruz Miret, 1950
- Celosia argentea*  
Wellman, F. L., 1935
- Centaurea cyanus*  
Wellman, F. L., 1935
- Chapmannia floridana*  
Wellman, F. L., 1935
- Cheiranthus cheiri*  
Govier, D. A., 1957
- Chenopodium album*  
Burnett, G., 1934
- Chenopodium botrys*  
Wellman, F. L., 1935
- Chrysanthemum carinatum*  
Wellman, F. L., 1935
- Chrysanthemum coccineum*  
Govier, D. A., 1957
- Chrysanthemum leucanthemum*  
Wellman, F. L., 1935
- Chrysanthemum morifolium*  
Wellman, F. L., 1935
- Chrysanthemum parthenium*  
Govier, D. A., 1957  
Wellman, F. L., 1935
- Cicer arietinum*  
Wellman, F. L., 1935
- Cichorium endivia*  
Wellman, F. L., 1935
- Cichorium intybus*  
Pound, Glenn S. and J. C. Walker, 1948  
Wellman, F. L., 1935
- Citrullus citrullus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Citrullus vulgaris*  
Nariani, T. K. and Nirmaljit Singh, 1952
- Citrullus vulgaris var. fistulosus* \*  
Nariani, T. K. and Nirmaljit Singh, 1952
- Citrus aurantium*  
Wellman, F. L., 1935
- Citrus grandis*  
Wellman, F. L., 1935
- Citrus nobilis*  
Wellman, F. L., 1935
- Citrus sinensis*  
Wellman, F. L., 1935
- Citrus spp.*  
Bennett, C. W., 1944
- Clarkia elegans*  
Wellman, F. L., 1935
- Cleome spinosa*  
Adsuar, Jose and A. Cruz Miret, 1950
- Clerodendron fragans*  
Adsuar, Jose and A. Cruz Miret, 1950
- Clitoria ternatea*  
Wellman, F. L., 1935
- Codiaeum variegatum*  
Wellman, F. L., 1935
- Coleus lanuginosus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Commelina coelestis*  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina nudiflora*  
Anderson, C. W., 1955  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina spp.*  
Simons, John N., 1957
- Convallaria majalis*  
Brierley, Philip and Floyd F. Smith, 1944
- Coreopsis drummondii*  
Wellman, F. L., 1935
- Coreopsis tinctoria*  
Wellman, F. L., 1935
- Cosmos bipinnatus*  
Wellman, F. L., 1935
- Crassina elegans*  
Adsuar, Jose and A. Cruz Miret, 1950
- Crotalaria spectabilis*  
Anderson, C. W., 1955  
Wellman, F. L., 1935

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Crotalaria spp.*  
Wellman, F. L., 1935
- Cucumis melo*  
Govier, D. A., 1957
- Cucumis sativus*  
McWhorter, F. P. and H. H. Millsap, 1954  
Peterson, Paul D. and H. H. McKinney, 1938
- Cucurbita lagenaria*  
Adsuar, Jose and A. Cruz Miret, 1950
- Cuscuta californica*  
Bennett, C. W., 1940
- Cuscuta campestris*  
Bennett, C. W., 1944  
Costa, A. S., 1944
- Cuscuta sandwichiana*  
Sakimura, K., 1947
- Cuscuta subinclusa*  
Bennett, C. W., 1940
- Cynodon dactylon*  
Wellman, F. L., 1935
- Cyperus compressus*  
Wellman, F. L., 1935
- Cyperus esculentus*  
Wellman, F. L., 1935
- Dahlia pinnata*  
Wellman, F. L., 1935
- Dahlia variabilis*  
Brierley, Philip and Floyd F. Smith, 1950
- Daphne cneorum*  
Milbrath, J. A. and Roy A. Young, 1956
- Datura spp.*  
Adsuar, Jose and A. Cruz Miret, 1950
- Datura stramonium*  
Burnett, G., 1934  
Harter, L. L., 1938  
Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
McKnight, T., 1953  
Vasudeva, R. Sahai and T. B. Lal, 1943
- Dendropogon usneoides*  
Wellman, F. L., 1935
- Desmodium incanum*  
Anderson, C. W., 1955
- Dianthus caryophyllus*  
Wellman, F. L., 1935
- Dianthus plumarius*  
Wellman, F. L., 1935
- Digitalis purpurea*  
Wellman, F. L., 1935
- Dioscorea alata*  
Brierley, Philip and Floyd F. Smith, 1944
- Dioscorea bulbifera*  
Wellman, F. L., 1935
- Dolichos lablab*  
Wellman, F. L., 1935
- Dracaena sanderiana*  
Brierley, Philip and Floyd F. Smith, 1944
- Ecballium elaterium*  
Jagger, I. C., 1918
- Emilia sonchifolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Erigeron spp.*  
Wellman, F. L., 1935
- Eriogonum fasciculatum*  
Bennett, C. W., 1944
- Erythronium spp.*  
Brierley, Philip and Floyd F. Smith, 1944
- Euphorbia marginata*  
Wellman, F. L., 1935
- Euphorbia pulcherrima*  
Wellman, F. L., 1935
- Ferula communis*  
Wellman, F. L., 1935
- Freesia hybrida*  
Brierley, Philip and Floyd F. Smith, 1944
- Gaillardia pulchella*  
Wellman, F. L., 1935
- Galtonia candicans*  
Brierley, Philip and Floyd F. Smith, 1944
- Gerardia divaricata*  
Wellman, F. L., 1935
- Gladiolus lemoinei*  
Wellman, F. L., 1935

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Glycine hispida*  
Vasudeva, R. Sahai and T.B. Lal, 1943
- Glycine max*  
Anderson, C.W., 1955  
Bridgmon, G.H. and J.C. Walker, 1952  
Costa, A.S., 1944  
Harter, L.L., 1938  
Johnson, E.M., 1930  
Wellman, F.L., 1935  
Whipple, O.C. and J.C. Walker, 1941
- Gomphrena globosa*  
Wellman, F.L., 1935
- Gossypium hirsutum*  
Wellman, F.L., 1935
- Gossypium spp.*  
Celino, Martin S., 1940
- Gypsophila paniculata*  
Wellman, F.L., 1935
- Haworthia atilinea*  
Brierley, Philip and Floyd F. Smith, 1944
- Hedychium coronarium*  
Brierley, Philip and Floyd F. Smith, 1944  
Celino, Martin S., 1940
- Helichrysum bracteatum*  
Wellman, F.L., 1935
- Heliotropium peruvianum*  
Wellman, F.L., 1935
- Hemerocallis flava*  
Wellman, F.L., 1935
- Hibiscus esculentus*  
Wellman, F.L., 1935
- Hibiscus rosa-sinensis*  
Wellman, F.L., 1935
- Holcus sorghum*  
Adsuar, Jose and A. Cruz Miret, 1950
- Hordeum vulgare*  
McWhorter, F.P. and H.H. Millsap, 1954  
Wellman, F.L., 1935
- Hosta plantaginea*  
Brierley, Philip and Floyd F. Smith, 1944
- Hymenocallis spp.*  
Wellman, F.L., 1935
- Iberis umbellata*  
Wellman, F.L., 1935
- Impatiens balsamina*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Wellman, F.L., 1935
- Ionoxalis violacea*  
Wellman, F.L., 1935
- Ipomoea batata*  
Doolittle, S.P. and L.L. Harter, 1945
- Ipomoea quinquefolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Iris filifolia*  
Brierley, Philip and Floyd F. Smith, 1944
- Iris germanica*  
Brierley, Philip and Frank P. McWhorter, 1936
- Iris pallida*  
Brierley, Philip and Floyd F. Smith, 1944
- Iris versicolor*  
Brierley, Philip and Floyd F. Smith, 1944
- Isotoma longiflora*  
Adsuar, Jose and A. Cruz Miret, 1950
- Jussiaea angustifolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Kniphofia tucki*  
Brierley, Philip and Floyd F. Smith, 1944
- Kochia scoparia*  
Wellman, F.L., 1935
- Lactuca sativa*  
Burnett, G., 1934  
Govier, D.A., 1957  
Nienow, Inez, 1948
- Lactuca sativa var. capitata*  
Ainsworth, G.C., 1940  
Wellman, F.L., 1935
- Lactuca sativa var. crispa*  
Wellman, F.L., 1935
- Lactuca sativa var. longifolia*  
Wellman, F.L., 1935
- Lagenaria siceraria (Lagenaria leucantha)*  
Nariani, T.K. and Nirmaljit Singh, 1952

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Lamium amplexicaule*  
Burnett, G., 1934
- Lantana sellowiana*  
Wellman, F.L., 1935
- Lathyrus odoratus*  
Bhargava, K.S., 1951  
Harter, L.L., 1938  
Wellman, F.L., 1935
- Lens esculenta*  
Harter, L.L., 1938
- Leonotis nepetaefolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Lepidium virginicum*  
Wellman, F.L., 1935
- Lilium davidi*  
Brierley, Philip, 1940
- Lilium hansonii*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium henryi*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium humboldtii*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium martagon var. album x Lilium hansonii*  
Brierley, Philip, 1940
- Lilium nepalense*  
Brierley, Philip, 1940
- Lilium pardalinum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium pardalinum var. giganteum \**  
Brierley, Philip, 1940
- Lilium parryi*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium parvum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium sargentiae*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium superbum*  
Brierley, Philip and Floyd F. Smith, 1944
- Limonium latifolium*  
Wellman, F.L., 1935
- Linaria canadensis*  
Wellman, F.L., 1935
- Linaria floridana*  
Wellman, F.L., 1935
- Lobelia erinus*  
Wellman, F.L., 1935
- Lobularia maritima*  
Wellman, F.L., 1935
- Luffa aegyptiaca (Luffa cylindrica)*  
Nariani, T.K. and Nirmaljit Singh, 1952
- Lupinus albus*  
Harter, L.L., 1938
- Lupinus hirsutus*  
Wellman, F.L., 1935
- Lupinus mutabilis*  
McKnight, T., 1953
- Lupinus polyphyllus*  
Govier, D.A., 1957
- Lycopersicon esculentum*  
Doolittle, S.P. and W.W. Gilbert, 1918  
McKnight, T., 1953  
Vasudeva, R. Sahai and T.B. Lal, 1943
- Lycopersicon lycopersicon \**  
Adsuar, Jose and A. Cruz Miret, 1950
- Malva rotundifolia*  
Burnett, G., 1934
- Manihot esculenta (Manihot ultissima)*  
Wellman, F.L., 1935
- Matthiola incana*  
Govier, D.A., 1957  
Wellman, F.L., 1935
- Medeola virginica*  
Brierley, Philip and Floyd F. Smith, 1944
- Medicago sativa*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Hagedorn, D.J. and J.C. Walker, 1954  
Simons, John N., 1957
- Melilotus alba*  
Bridgmon, G.H. and J.C. Walker, 1952
- Melilotus officinalis*  
Whipple, O.C. and J.C. Walker, 1941

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Mentha spicata*  
Wellman, F. L., 1935
- Mirabilis jalapa*  
Adsuar, Jose and A. Cruz Miret, 1950  
Wellman, F. L., 1935
- Momordica charantia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Moraea iridioides*  
Brierley, Philip and Floyd F. Smith, 1944
- Musa balbisiana*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Musa banksii*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Musa cavendishii*  
Brierley, Philip and Floyd F. Smith, 1944  
Celino, M. S. and Aureo L. Martinez, 1956
- Musa ornatus*  
Bernardo, Fernando A. and Dioscoro L. Umali, 1956
- Musa paradisiaca*  
Adsuar, Jose and A. Cruz Miret, 1950
- Musa paradisiaca* subsp. *sapientum*  
Adsuar, Jose and A. Cruz Miret, 1950
- Musa paradisiaca* subsp. *sapientum* var. *cinerea*  
Celino, Martin S., 1940
- Musa paradisiaca* subsp. *sapientum* var. *lacatan*  
Celino, Martin S., 1940
- Musa paradisiaca* subsp. *sapientum* var. *suaveolens*  
Celino, Martin S., 1940
- Musa sapientum* var. *compressa* \*  
Celino, Martin S., 1940
- Musa textilis*  
Brierley, Philip and Floyd F. Smith, 1944
- Musa textilis* x *Musa balbisiana*  
Umali, D. L., F. A. Bernardo and G. O. Ocfemia, 1956
- Muscari polyanthum*  
Brierley, Philip and Floyd F. Smith, 1944
- Myosotis scorpioides*  
Wellman, F. L., 1935
- Narcissus tazetta*  
Wellman, F. L., 1935
- Nicotiana glauca*  
Johnson, J., 1926, 1927
- Nicotiana glutinosa*  
Adsuar, Jose and A. Cruz Miret, 1950  
Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- Nicotiana rustica*  
Lindberg, G. D., D. H. Hall and J. C. Walker, 1956
- Nicotiana tabacum*  
Adsuar, Jose and A. Cruz Miret, 1950  
Doolittle, S. P. and W. W. Gilbert, 1918  
Lindberg, G. D., D. H. Hall and J. C. Walker, 1956  
McKnight, T., 1953  
McWhorter, F. P. and H. H. Millsap, 1954  
Vasudeva, R. Sahai and T. B. Lal, 1943
- Nigella damascena*  
Wellman, F. L., 1935
- Nothoscordum fragrans*  
Brierley, Philip and Floyd F. Smith, 1944
- Ophiopogon jaburan*  
Brierley, Philip and Floyd F. Smith, 1944
- Ornithogalum thyrsoides*  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1944
- Oryza sativa*  
Adsuar, Jose and A. Cruz Miret, 1950  
McWhorter, F. P. and H. H. Millsap, 1954  
Wellman, F. L., 1935
- Panicum barbinode*  
Wellman, F. L., 1935
- Papaver orientale*  
Wellman, F. L., 1935
- Papaver rhoeas*  
Wellman, F. L., 1935
- Papaver somniferum*  
Wellman, F. L., 1935
- Parthenium argentatum*  
Severin, Henry H. P., 1945

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Pelargonium zonale*  
Govier, D. A., 1957
- Petunia hybrida*  
Vasudeva, R. Sahai and T. B. Lal, 1943
- Petunia violacea*  
Johnson, J., 1926
- Phaseolus calcaratus*  
Harter, L. L., 1938
- Phaseolus limensis*  
Simons, John N., 1957  
Wellman, F. L., 1935
- Phaseolus lunatus*  
Adsuar, Jose and A. Cruz Miret, 1950
- Phaseolus vulgaris*  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C. W., 1951  
Berkeley, G. H., 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Brierley, Philip, 1952  
Doolittle, S. P. and W. W. Gilbert, 1918  
Govier, D. A., 1957  
Harter, L. L., 1936, 1938  
Johnson, E. M., 1930  
Milbrath, J. A. and Roy A. Young, 1956  
Nienow, Inez, 1948  
Pound, Glenn S. and J. C. Walker, 1948  
Simons, John N., 1957  
Wellman, F. L., 1934, 1935  
Whipple, O. C. and J. C. Walker, 1941
- Philodendron* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Physalis angulata*  
Adsuar, Jose and A. Cruz Miret, 1950
- Phytolacca decandra*  
Govier, D. A., 1957  
Johnson, J., 1926, 1927
- Piaropus crassipes*  
Wellman, F. L., 1935
- Pisum sativum*  
Berkeley, G. H., 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Burnett, G., 1934  
Govier, D. A., 1957  
Harter, L. L., 1938  
Johnson, E. M., 1930  
Wellman, F. L., 1935
- Plantago major*  
Adsuar, Jose and A. Cruz Miret, 1950
- Plantago* spp.  
Wellman, F. L., 1935
- Poa pratensis*  
Wellman, F. L., 1935
- Polygonum aviculare*  
Harter, L. L., 1938
- Polypodium vulgare*  
Wellman, F. L., 1935
- Pontederia cordata*  
Wellman, F. L., 1935
- Portulaca grandiflora*  
Wellman, F. L., 1935
- Primula vulgaris*  
Govier, D. A., 1957
- Psidium guajava*  
Wellman, F. L., 1935
- Raphanus sativus*  
Burnett, G., 1934  
Johnson, E. M., 1930  
Wellman, F. L., 1935
- Reseda odorata*  
Wellman, F. L., 1935
- Ricinus communis*  
Bennett, C. W., 1944  
Wellman, F. L., 1935
- Rivina humilis aurantica* \*  
Adsuar, Jose and A. Cruz Miret, 1950
- Rosa dilecta*  
Wellman, F. L., 1935
- Rosa laevigata*  
Wellman, F. L., 1935
- Ruellia tuberosa*  
Adsuar, Jose and A. Cruz Miret, 1950

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Rumex occidentalis*  
Nienow, Inez, 1948
- Saccharum officinarum*  
Wellman, F.L., 1935
- Salpiglossis sinuata*  
Wellman, F.L., 1935
- Salvia splendens*  
Wellman, F.L., 1935
- Sansevieria thrysiflora*  
Wellman, F.L., 1935
- Sansevieria zeylanica*  
Brierley, Philip and Floyd F. Smith, 1944
- Schizanthus pinnatus*  
Wellman, F.L., 1935
- Secchium edule*  
Adsuar, Jose and A. Cruz Miret, 1950
- Senecio cruentus*  
Govier, D.A., 1957  
Wellman, F.L., 1935
- Sida carpinifolia*  
Adsuar, Jose and A. Cruz Miret, 1950
- Smilacina racemosa*  
Brierley, Philip and Floyd F. Smith, 1944
- Smilax* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Solanum caribaeum*  
Adsuar, Jose and A. Cruz Miret, 1950
- Solanum dulcamara*  
Govier, D.A., 1957
- Solanum melongena*  
Adsuar, Jose and A. Cruz Miret, 1950  
Burnett, G., 1934  
Johnson, J., 1926
- Solanum pseudocapsicum*  
Burnett, G., 1934  
Wellman, F.L., 1935
- Solanum tuberosum*  
Bhargava, K.S., 1951  
Burnett, G., 1934  
Dykstra, T.P., 1939  
Nariani, T.K. and Nirmaljit Singh, 1952  
Wellman, F.L., 1935
- Sonchus oleraceus*  
Wellman, F.L., 1935
- Sorghum vulgare*  
McWhorter, F.P. and H.H. Millsap, 1954
- Spinacia oleracea*  
Burnett, G., 1934
- Stenotaphrum secundatum*  
Wellman, F.L., 1935
- Tigridia pavonia*  
Brierley, Philip and Floyd F. Smith, 1944
- Tillandsia fasciculata*  
Wellman, F.L., 1935
- Trachymene caerulea*  
Wellman, F.L., 1935
- Tragopogon porrifolius*  
Wellman, F.L., 1935
- Tricholaena repens (Tricholaena rosea)*  
Wellman, F.L., 1935
- Tricyrtis hirta*  
Brierley, Philip and Floyd F. Smith, 1944
- Trifolium hybridum*  
Harter, L.L., 1938
- Trifolium incarnatum*  
Bridgmon, G.H. and J.C. Walker, 1952
- Trifolium pratense*  
Bridgmon, G.H. and J.C. Walker, 1952  
Costa, A.S., 1944  
Doolittle, S.P. and W.J. Zaumeyer, 1953
- Trifolium repens*  
Doolittle, S.P. and W.J. Zaumeyer, 1953  
Wellman, F.L., 1935  
Whipple, O.C. and J.C. Walker, 1941
- Trillium* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Triticum aestivum*  
McWhorter, F.P. and H.H. Millsap, 1954
- Tritonia crocata*  
Brierley, Philip and Floyd F. Smith, 1944
- Tulipa gesneriana*  
Wellman, F.L., 1935

## VIRUS

## V. CUCUMBER MOSAIC (cont.)

- Typha angustifolia*  
Wellman, F.L., 1935
- Uvularia sessilifolia*  
Brierley, Philip and Floyd F. Smith, 1944
- Valerianoides jamaicensis*  
Adsuar, Jose and A. Cruz Miret, 1950
- Vallota purpurea*  
Brierley, Philip and Floyd F. Smith, 1944
- Verbena hybrida*  
Wellman, F.L., 1935
- Vicia faba*  
Adsuar, Jose and A. Cruz Miret, 1950  
Anderson, C.W., 1951  
Harter, L.L., 1936  
Whipple, O.C. and J.C. Walker, 1941
- Vicia sativa*  
Harter, L.L., 1938
- Vicia villosa*  
Harter, L.L., 1938
- Vigna sinensis*  
Anderson, C.W., 1951  
Govier, D.A., 1957  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Simons, John N., 1957  
Wellman, F.L., 1934, 1935
- Vigna unguiculata*  
Adsuar, Jose and A. Cruz Miret, 1950  
Vasudeva, R. Sahai and T.B. Lal, 1943
- Viola floridana*  
Wellman, F.L., 1935
- Viola odorata*  
Wellman, F.L., 1935
- Viola primulifolia*  
Wellman, F.L., 1935
- Viola tricolor*  
Burnett, G., 1934  
Govier, D.A., 1957  
Wellman, F.L., 1935
- Xanthosoma* spp.  
Wellman, F.L., 1935
- Xanthoxalis corniculata*  
Wellman, F.L., 1935
- Yucca baccata*  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca flaccida*  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca gloriosa*  
Wellman, F.L., 1935
- Zea mays*  
Adsuar, Jose and A. Cruz Miret, 1950  
Harter, L.L., 1938
- Zinnia elegans*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- V. (CUCUMBER) O.S.C. ISOLATE 606 \*
- Beta vulgaris*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Capsicum frutescens (Capsicum annum)*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Citrullus vulgaris*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Cucumis melo*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Cucurbita moschata*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Nicotiana tabacum*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Phaseolus vulgaris*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Trifolium subterraneum*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Vicia faba*  
Porter, Clark A. and Frank P. McWhorter, 1951
- Zinnia elegans*  
Porter, Clark A. and Frank P. McWhorter, 1951
- V. CUCUMBER WESTERN MOSAIC \*
- Parthenium argentatum*  
Severin, Henry H.P., 1945

## VIRUS

## V. CUCURBIT MOSAIC \*

- Citrullus vulgaris*  
Doolittle, S.P. and M.N. Walker, 1925  
*Cuscuta campestris*  
Johnson, Folke, 1941

## V. DAHLIA MOSAIC Brierley 1933

- Cichorium endivia*  
Brierley, Philip and Floyd F. Smith, 1950  
*Coreopsis lanceolata*  
Brierley, Philip and Floyd F. Smith, 1950  
*Cosmos bipinnatus*  
Brierley, Philip and Floyd F. Smith, 1950  
*Cucumis sativus*  
Brierley, Philip and Floyd F. Smith, 1950  
*Cynara cardunculus*  
Brierley, Philip and Floyd F. Smith, 1950  
*Doronicum caucasicum*  
Brierley, Philip and Floyd F. Smith, 1950  
*Lactuca sativa*  
Brierley, Philip and Floyd F. Smith, 1950  
*Rudbeckia serotina*  
Brierley, Philip and Floyd F. Smith, 1950  
*Rudbeckia serotina f. pulcherrima* \*  
Brierley, Philip and Floyd F. Smith, 1950  
*Tithonia rotundifolia*  
Brierley, Philip and Floyd F. Smith, 1950

## V. DANDELION YELLOW MOSAIC Kassanis 1944

- Apium graveolens*  
Kassanis, B., 1947  
*Calendula officinalis*  
Kassanis, B., 1947  
*Cichorium intybus*  
Kassanis, B., 1947  
*Nicotiana glutinosa*  
Kassanis, B., 1947  
*Nicotiana tabacum*  
Kassanis, B., 1947  
*Pastinaca sativa*  
Kassanis, B., 1947  
*Petroselinum sativum*  
Kassanis, B., 1947  
*Sonchus oleraceus*  
Kassanis, B., 1947

## V. DATURA DISTORTION MOSAIC Capoor and Varma

- Beta vulgaris* 1952  
Capoor, S.P. and P.M. Varma, 1952  
*Cassia sophera*  
Capoor, S.P. and P.M. Varma, 1952  
*Crotalaria juncea*  
Capoor, S.P. and P.M. Varma, 1952  
*Cucumis sativus*  
Capoor, S.P. and P.M. Varma, 1952  
*Dahlia pinnata*  
Capoor, S.P. and P.M. Varma, 1952  
*Dolichos lablab*  
Capoor, S.P. and P.M. Varma, 1952  
*Glycine max*  
Capoor, S.P. and P.M. Varma, 1952  
*Hibiscus esculentus*  
Capoor, S.P. and P.M. Varma, 1952  
*Lagenaria vulgaris*  
Capoor, S.P. and P.M. Varma, 1952  
*Luffa acutangula*  
Capoor, S.P. and P.M. Varma, 1952  
*Nicotiana atropurpureum* \*  
Capoor, S.P. and P.M. Varma, 1952  
*Phaseolus limensis*  
Capoor, S.P. and P.M. Varma, 1952  
*Phaseolus lunatus f. macrocarpus*  
Capoor, S.P. and P.M. Varma, 1952  
*Phaseolus vulgaris*  
Capoor, S.P. and P.M. Varma, 1952  
*Physalis alkekengi*  
Capoor, S.P. and P.M. Varma, 1952  
*Physalis peruviana*  
Capoor, S.P. and P.M. Varma, 1952  
*Solanum melongena*  
Capoor, S.P. and P.M. Varma, 1952  
*Solanum nigrum*  
Capoor, S.P. and P.M. Varma, 1952

## VIRUS

## V. DATURA DISTORTION MOSAIC (cont.)

- Solanum nodiflorum*  
Capoor, S.P. and P.M. Varma, 1952  
*Spinacia oleracea*  
Capoor, S.P. and P.M. Varma, 1952  
*Tagetes erecta*  
Capoor, S.P. and P.M. Varma, 1952  
*Vicia faba*  
Capoor, S.P. and P.M. Varma, 1952  
*Vigna sinensis*  
Capoor, S.P. and P.M. Varma, 1952  
*Viola odorata*  
Capoor, S.P. and P.M. Varma, 1952  
*Zinnia elegans*  
Capoor, S.P. and P.M. Varma, 1952

## V. DOCK MOSAIC Grainger and Cockerham 1930

- Lactuca sativa*  
Newhall, A.G., 1923

## V. DODDER LATENT MOSAIC Bennett 1944

- Amaranthus graecizans*  
Bennett, C.W., 1944  
*Amaranthus retroflexus*  
Bennett, C.W., 1944  
*Atropa belladonna*  
Bennett, C.W., 1944  
*Brassica oleracea*  
Bennett, C.W., 1944  
*Cucurbita maxima*  
Bennett, C.W., 1944  
*Cucurbita pepo*  
Bennett, C.W., 1944  
*Cuscuta californica*  
Bennett, C.W., 1944  
*Cuscuta campestris*  
Bennett, C.W., 1944  
*Cuscuta subinclusa*  
Bennett, C.W., 1944  
*Datura meteloides*  
Bennett, C.W., 1944  
*Datura stramonium*  
Bennett, C.W., 1944  
*Daucus carota*  
Bennett, C.W., 1944  
*Eriogonum fasciculatum*  
Bennett, C.W., 1944  
*Hieracium argutum*  
Bennett, C.W., 1944  
*Lactuca sativa*  
Bennett, C.W., 1944  
*Matthiola incana*  
Bennett, C.W., 1944  
*Melilotus indica*  
Bennett, C.W., 1944  
*Nicotiana sylvestris*  
Bennett, C.W., 1944  
*Pastinaca sativa*  
Bennett, C.W., 1944  
*Phaseolus vulgaris*  
Bennett, C.W., 1944  
*Pisum sativum*  
Bennett, C.W., 1944  
*Sisymbrium irio*  
Bennett, C.W., 1944  
*Solanum gilo*  
Bennett, C.W., 1944  
*Solanum integrifolium*  
Bennett, C.W., 1944  
*Stellaria media*  
Bennett, C.W., 1944  
*Verbascum thapsus*  
Bennett, C.W., 1944

## V. EGGPLANT MOSAIC Ferguson 1951

- Apium graveolens*  
Dale, W.T., 1954  
*Cucumis sativus*  
Ferguson, I.A.C., 1951  
*Cucurbita pepo*  
Dale, W.T., 1954  
Ferguson, I.A.C., 1951

## VIRUS

## V. EGGPLANT MOSAIC (cont.)

- Nicotiana alata* var. *grandiflora*  
Ferguson, I. A. C., 1951
- Nicotiana chinensis*  
Ferguson, I. A. C., 1951
- Nicotiana rustica*  
Ferguson, I. A. C., 1951
- Nicotiana sanderae*  
Ferguson, I. A. C., 1951
- Nicotiana sylvestris*  
Ferguson, I. A. C., 1951
- Nicotiana tabacum*  
Ferguson, I. A. C., 1951
- Zinnia elegans*  
Dale, W. T., 1954

## V. ELM MOSAIC Swingle et al. 1941

- Prunus serrulata*  
Callahan, Kemper L. and J. Duain Moore, 1957

## V. ERYNGIUM YELLOW MOSAIC \*

- Lycopersicon esculentum*  
Johnson, James and Edith M. Hein, 1948

## V. EUPHORBIA MOSAIC Costa and Bennett 1950

- Acanthospermum hispidum*  
Costa, A. S. and C. W. Bennett, 1950
- Amaranthus caudatus*  
Costa, A. S. and C. W. Bennett, 1950
- Antirrhinum majus*  
Costa, A. S. and C. W. Bennett, 1950
- Brassica pekinensis*  
Costa, A. S. and C. W. Bennett, 1950
- Calendula officinalis*  
Costa, A. S. and C. W. Bennett, 1950
- Callistephus chinensis*  
Costa, A. S. and C. W. Bennett, 1950
- Canavalia ensiformis*  
Costa, A. S. and C. W. Bennett, 1950
- Celosia argentea*  
Costa, A. S. and C. W. Bennett, 1950
- Centaurea cyanus*  
Costa, A. S. and C. W. Bennett, 1950
- Chrysanthemum cinerariifolium*  
Costa, A. S. and C. W. Bennett, 1950
- Delphinium* spp.  
Costa, A. S. and C. W. Bennett, 1950
- Erigeron bonariensis*  
Costa, A. S. and C. W. Bennett, 1950
- Euphorbia pilulifera*  
Costa, A. S. and C. W. Bennett, 1950
- Gossypium hirsutum*  
Costa, A. S. and C. W. Bennett, 1950
- Impatiens balsamina*  
Costa, A. S. and C. W. Bennett, 1950
- Ipomoea* spp.  
Costa, A. S. and C. W. Bennett, 1950
- Lycopersicon esculentum*  
Costa, A. S. and C. W. Bennett, 1950
- Manihot esculenta* (*Manihot utilissima*)  
Costa, A. S. and C. W. Bennett, 1950
- Papaver* spp.  
Costa, A. S. and C. W. Bennett, 1950
- Physalis* spp.  
Costa, A. S. and C. W. Bennett, 1950
- Raphanus sativus*  
Costa, A. S. and C. W. Bennett, 1950
- Ricinus communis*  
Costa, A. S. and C. W. Bennett, 1950
- Sida rhombifolia*  
Costa, A. S. and C. W. Bennett, 1950
- Silene pendula*  
Costa, A. S. and C. W. Bennett, 1950
- Solanum tuberosum*  
Costa, A. S. and C. W. Bennett, 1950
- Tagetes* spp.  
Costa, A. S. and C. W. Bennett, 1950
- Tropaeolum majus*  
Costa, A. S. and C. W. Bennett, 1950
- Vinca rosea*  
Costa, A. S. and C. W. Bennett, 1950
- Viola tricolor*  
Costa, A. S. and C. W. Bennett, 1950

## VIRUS

## V. EUPHORBIA MOSAIC (cont.)

- Zinnia elegans*  
Costa, A. S. and C. W. Bennett, 1950

## V. FIG MOSAIC Condit and Horne 1933

- Ficus palmata*  
Condit, I. J. and W. T. Horne, 1933

## V. FILAREE RED LEAF Frazier 1951

- Apium graveolens* var. *dulce*  
Frazier, Norman W., 1951
- Beta vulgaris*  
Frazier, Norman W., 1951
- Brassica oleracea* var. *botrytis*  
Frazier, Norman W., 1951
- Callistephus chinensis*  
Frazier, Norman W., 1951
- Cicer arietinum*  
Frazier, Norman W., 1951
- Cucumis sativus*  
Frazier, Norman W., 1951
- Cucurbita pepo*  
Frazier, Norman W., 1951
- Fragaria chiloensis* var. *ananassa*  
Frazier, Norman W., 1951
- Glycine max*  
Frazier, Norman W., 1951
- Lathyrus odoratus*  
Frazier, Norman W., 1951
- Lycopersicon esculentum*  
Frazier, Norman W., 1951
- Matthiola incana*  
Frazier, Norman W., 1951
- Medicago sativa*  
Frazier, Norman W., 1951
- Nicotiana glutinosa*  
Frazier, Norman W., 1951
- Nicotiana tabacum*  
Frazier, Norman W., 1951
- Pelargonium hortorum*  
Frazier, Norman W., 1951
- Phaseolus vulgaris*  
Frazier, Norman W., 1951
- Pisum sativum*  
Frazier, Norman W., 1951
- Plantago major*  
Frazier, Norman W., 1951
- Spinacia oleracea*  
Frazier, Norman W., 1951
- Trifolium pratense*  
Frazier, Norman W., 1951
- Trifolium repens*  
Frazier, Norman W., 1951
- Vicia faba*  
Frazier, Norman W., 1951
- Vicia villosa*  
Frazier, Norman W., 1951
- Vigna sinensis*  
Frazier, Norman W., 1951
- Vitis californica*  
Frazier, Norman W., 1951

## V. GLADIOLUS \*

- Antirrhinum majus*  
Snow, Gordon F., 1955
- Cucumis sativus*  
Snow, Gordon F., 1955
- Melilotus alba*  
Snow, Gordon F., 1955
- Nicotiana tabacum*  
Snow, Gordon F., 1955
- Trifolium pratense*  
Snow, Gordon F., 1955
- Vicia faba*  
Snow, Gordon F., 1955
- Zinnia elegans*  
Snow, Gordon F., 1955

## V. HENBANE MOSAIC K. M. Smith 1957

- Ageratum officinalis* \*  
Hamilton, Marion A., 1932
- Atropa belladonna*  
Hamilton, Marion A., 1932

- VIRUS
- V. HENBANE MOSAIC (cont.)
- Brassica oleracea*  
Hamilton, Marion A., 1932
- Brassica rapa*  
Hamilton, Marion A., 1932
- Myosotis sylvaticum*  
Hamilton, Marion A., 1932
- Raphanus raphanistrum*  
Hamilton, Marion A., 1932
- Reseda odorata*  
Hamilton, Marion A., 1932
- Solanum dulcamara*  
Hamilton, Marion A., 1932
- Solanum melongena*  
Hamilton, Marion A., 1932
- Solanum nodiflorum*  
Hamilton, Marion A., 1932
- Solanum tuberosum*  
Hamilton, Marion A., 1932
- V. HIBISCUS YELLOW VEIN MOSAIC Capoor and Varma 1950
- Abutilon indicum*  
Capoor, S. P. and P. M. Varma, 1950
- Ageratum conyzoides*  
Capoor, S. P. and P. M. Varma, 1950
- Capsicum frutescens* (*Capsicum annuum*)  
Capoor, S. P. and P. M. Varma, 1950
- Cassia tora*  
Capoor, S. P. and P. M. Varma, 1950
- Corchorus trilocularis*  
Capoor, S. P. and P. M. Varma, 1950
- Cuscuta reflexa*  
Capoor, S. P. and P. M. Varma, 1950
- Datura alba*  
Capoor, S. P. and P. M. Varma, 1950
- Dolichos lablab*  
Capoor, S. P. and P. M. Varma, 1950
- Eclipta alba*  
Capoor, S. P. and P. M. Varma, 1950
- Euphorbia geniculata*  
Capoor, S. P. and P. M. Varma, 1950
- Gossypium peruvianum* x *Gossypium barbadense*  
Capoor, S. P. and P. M. Varma, 1950
- Hibiscus furcatus*  
Capoor, S. P. and P. M. Varma, 1950
- Hibiscus manihot*  
Capoor, S. P. and P. M. Varma, 1950
- Lycopersicon esculentum*  
Capoor, S. P. and P. M. Varma, 1950
- Medicago sativa*  
Capoor, S. P. and P. M. Varma, 1950
- Nicotiana glutinosa*  
Capoor, S. P. and P. M. Varma, 1950
- Nicotiana tabacum*  
Capoor, S. P. and P. M. Varma, 1950
- Petunia hybrida*  
Capoor, S. P. and P. M. Varma, 1950
- Phaseolus vulgaris*  
Capoor, S. P. and P. M. Varma, 1950
- Sida rhombifolia*  
Capoor, S. P. and P. M. Varma, 1950
- Solanum melongena*  
Capoor, S. P. and P. M. Varma, 1950
- Solanum nigrum*  
Capoor, S. P. and P. M. Varma, 1950
- Sonchus* spp.  
Capoor, S. P. and P. M. Varma, 1950
- Trifolium pratense*  
Capoor, S. P. and P. M. Varma, 1950
- Vernonia anthelmintica*  
Capoor, S. P. and P. M. Varma, 1950
- Vigna sinensis*  
Capoor, S. P. and P. M. Varma, 1950
- Zinnia elegans*  
Capoor, S. P. and P. M. Varma, 1950
- V. HIBISCUS YELLOWS \*
- Gossypium barbadense*  
Hendrix, J. Walter, 1950
- Gossypium hirsutum*  
Hendrix, J. Walter, 1950
- Hibiscus esculentus*  
Hendrix, J. Walter, 1950
- VIRUS
- V. HIBISCUS YELLOWS \* (cont.)
- Hibiscus sabdariffa*  
Hendrix, J. Walter, 1950
- Hibiscus tiliaceus* (*Pariti tiliaceum*)  
Hendrix, J. Walter, 1950
- Hibiscus youngianus*  
Hendrix, J. Walter, 1950
- Sida fallax*  
Hendrix, J. Walter, 1950
- Thespesia populnea* \*  
Hendrix, J. Walter, 1950
- V. HYDRANGEA \*
- Nicotiana tabacum*  
Brierley, Philip, 1954
- V. HYDRANGEA RING SPOT Brierley and Smith 1952
- Antirrhinum majus*  
Brierley, Philip and Floyd F. Smith, 1952
- Callistephus chinensis*  
Brierley, Philip and Paul Lorentz, 1956, 1957
- Capsicum frutescens* (*Capsicum annuum*)  
Brierley, Philip and Paul Lorentz, 1957
- Chrysanthemum morifolium*  
Brierley, Philip and Paul Lorentz, 1957
- Cyamopsis tetragonoloba*  
Brierley, Philip and Paul Lorentz, 1956, 1957
- Datura stramonium*  
Brierley, Philip and Paul Lorentz, 1957
- Lycopersicon esculentum*  
Brierley, Philip and Paul Lorentz, 1957
- Nicotiana glutinosa*  
Brierley, Philip and Paul Lorentz, 1957
- Nicotiana tabacum*  
Brierley, Philip and Paul Lorentz, 1956, 1957
- Petunia hybrida*  
Brierley, Philip and Paul Lorentz, 1957
- Phaseolus vulgaris*  
Brierley, Philip and Paul Lorentz, 1956, 1957
- Silene compacta*  
Brierley, Philip and Paul Lorentz, 1957
- Zinnia elegans*  
Brierley, Philip and Paul Lorentz, 1957
- V. IRIS MOSAIC Brierley and McWhorter 1936
- Belamcanda chinensis*  
Brierley, Philip and Floyd F. Smith, 1948  
Travis, R. V., 1957
- Lycopersicon esculentum*  
Brierley, Philip and Frank P. McWhorter, 1936
- Nicotiana tabacum*  
Brierley, Philip and Frank P. McWhorter, 1936
- Ornithogalum thyrsoides*  
Smith, Floyd F. and Philip Brierley, 1944
- Petunia hybrida*  
Brierley, Philip and Frank P. McWhorter, 1936
- Tulipa gesneriana*  
Brierley, Philip and Frank P. McWhorter, 1936
- V. IRIS RING SPOT \*
- Belamcanda chinensis*  
Travis, R. V., 1957
- V. IRIS SPURIA MOSAIC \*
- Gladiolus hortulanus*  
Brierley, Philip and Floyd F. Smith, 1948
- V. KAIMI CLOVER DISEASE \*
- Lathyrus odoratus*  
Murakishi, Harry H., 1952
- Medicago sativa*  
Murakishi, Harry H., 1952
- Melilotus alba*  
Murakishi, Harry H., 1952
- Melilotus officinalis*  
Murakishi, Harry H., 1952
- Pisum sativum*  
Murakishi, Harry H., 1952
- Trifolium pratense*  
Murakishi, Harry H., 1952

## VIRUS

- V. LETTUCE MOSAIC Jagger 1921; Ainsworth and Brassica oleracea var. botrytis cymosa \* Ogilvie 1939  
Ainsworth, G. C. and L. Ogilvie, 1939
- Carduus arvensis  
Ainsworth, G. C. and L. Ogilvie, 1939
- Cineraria cruenta  
Jones, Leon K., 1944
- Cucumis sativus  
Ainsworth, G. C., 1940  
Ainsworth, G. C. and L. Ogilvie, 1939
- Datura stramonium  
Ainsworth, G. C. and L. Ogilvie, 1939
- Lycopersicon esculentum  
Ainsworth, G. C., 1940  
Ainsworth, G. C. and L. Ogilvie, 1939
- Nicotiana glutinosa  
Ainsworth, G. C. and L. Ogilvie, 1939
- Nicotiana tabacum  
Ainsworth, G. C. and L. Ogilvie, 1939
- Phaseolus vulgaris  
Ainsworth, G. C., 1940
- Sonchus arvensis  
Ainsworth, G. C. and L. Ogilvie, 1939
- Sonchus oleraceus  
Ainsworth, G. C. and L. Ogilvie, 1939
- Taraxacum officinale  
Ainsworth, G. C. and L. Ogilvie, 1939
- Trifolium pratense  
Ainsworth, G. C., 1940
- Trifolium repens  
Ainsworth, G. C., 1940
- V. LILAC WITCHES' BROOM Lorentz and Brierley 1953
- Callistephus chinensis  
Brierley, Philip, 1955
- Cuscuta campestris  
Brierley, Philip, 1955
- Cuscuta subinclusa  
Brierley, Philip, 1955
- Forsythia suspensa  
Brierley, Philip, 1955
- Fraxinus pennsylvanica  
Brierley, Philip, 1955
- Ligustrum lucidum  
Brierley, Philip, 1955  
Lorentz, Paul and Philip Brierley, 1953
- Ligustrum obtusifolium var. regelianum  
Brierley, Philip, 1955
- Ligustrum ovalifolium  
Lorentz, Paul and Philip Brierley, 1953
- Nicotiana rustica  
Brierley, Philip, 1955
- V. LILY SYMPTOMLESS Brierley and Smith 1944
- Agapanthus africanus  
Brierley, Philip and Floyd F. Smith, 1944
- Allium cepa  
Brierley, Philip and Floyd F. Smith, 1944
- Allium cernuum  
Brierley, Philip and Floyd F. Smith, 1944
- Allium odorum  
Brierley, Philip and Floyd F. Smith, 1944
- Allium speciosum  
Brierley, Philip and Floyd F. Smith, 1944
- Aloe spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Asparagus asparagoides  
Brierley, Philip and Floyd F. Smith, 1944
- Asparagus sprengeri  
Brierley, Philip and Floyd F. Smith, 1944
- Asphodeline lutea  
Brierley, Philip and Floyd F. Smith, 1944
- Belamcanda chinensis  
Brierley, Philip and Floyd F. Smith, 1944
- Brassica rapa  
Brierley, Philip and Floyd F. Smith, 1944
- Brodiaea uniflora  
Brierley, Philip and Floyd F. Smith, 1944
- Camassia leichtlinii  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina coelestis  
Brierley, Philip and Floyd F. Smith, 1944

## VIRUS

- V. LILY SYMPTOMLESS (cont.)
- Commelina nudiflora  
Brierley, Philip and Floyd F. Smith, 1944
- Convallaria majalis  
Brierley, Philip and Floyd F. Smith, 1944
- Dioscorea alata  
Brierley, Philip and Floyd F. Smith, 1944
- Dracaena sanderiana  
Brierley, Philip and Floyd F. Smith, 1944
- Erythronium spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Freesia hybrida  
Brierley, Philip and Floyd F. Smith, 1944
- Galtonia candicans  
Brierley, Philip and Floyd F. Smith, 1944
- Haworthia altilinea  
Brierley, Philip and Floyd F. Smith, 1944
- Hedychium coronarium  
Brierley, Philip and Floyd F. Smith, 1944
- Hosta plantaginea  
Brierley, Philip and Floyd F. Smith, 1944
- Iris filifolia  
Brierley, Philip and Floyd F. Smith, 1944
- Iris pallida  
Brierley, Philip and Floyd F. Smith, 1944
- Iris versicolor  
Brierley, Philip and Floyd F. Smith, 1944
- Kniphofia tucki  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium hansonii  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium henryi  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium humboldtii  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium pardalinum  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium parryi  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium sargentiae  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium superbum  
Brierley, Philip and Floyd F. Smith, 1944
- Medeola virginica  
Brierley, Philip and Floyd F. Smith, 1944
- Moraea iridioides  
Brierley, Philip and Floyd F. Smith, 1944
- Musa cavendishii  
Brierley, Philip and Floyd F. Smith, 1944
- Musa textilis  
Brierley, Philip and Floyd F. Smith, 1944
- Muscari polyanthum  
Brierley, Philip and Floyd F. Smith, 1944
- Nothoscordum fragrans  
Brierley, Philip and Floyd F. Smith, 1944
- Ophiopogon jaburan  
Brierley, Philip and Floyd F. Smith, 1944
- Ornithogalum thyrsoides  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1944
- Philodendron spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Sansevieria zeylanica  
Brierley, Philip and Floyd F. Smith, 1944
- Smilacina racemosa  
Brierley, Philip and Floyd F. Smith, 1944
- Smilax spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Tigridia pavonia  
Brierley, Philip and Floyd F. Smith, 1944
- Tricyrtis hirta  
Brierley, Philip and Floyd F. Smith, 1944
- Trillium spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Tritonia crocata  
Brierley, Philip and Floyd F. Smith, 1944
- Uvularia sessilifolia  
Brierley, Philip and Floyd F. Smith, 1944
- Vallota purpurea  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca baccata  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca flaccida  
Brierley, Philip and Floyd F. Smith, 1944



## VIRUS

- V. LOVAGE MOSAIC Smith and Markham 1944  
*Apium graveolens*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Daucus carota*  
 Smith, Kenneth M. and Roy Markham, 1944  
*Solanum tuberosum*  
 Smith, Kenneth M. and Roy Markham, 1944
- V. LUCERNE DWARF  
*Aesculus californica*  
 Freitag, J.H., 1951  
*Amaranthus graecizans*  
 Porter, D.R., 1935  
*Ambrosia psilostachya*  
 Porter, D.R., 1935  
*Beta vulgaris*  
 Freitag, J.H., 1951  
*Bidens pilosa*  
 Freitag, J.H., 1951  
*Brassica campestris*  
 Freitag, J.H., 1951  
*Calycanthus occidentalis*  
 Freitag, J.H., 1951  
*Citrus limon*  
 Freitag, J.H., 1951  
*Citrus reticulata*  
 Freitag, J.H., 1951  
*Cotoneaster franchetii*  
 Freitag, J.H., 1951  
*Diplacis aurantiacus*  
 Freitag, J.H., 1951  
*Distichlis spicata*  
 Freitag, J.H., 1951  
*Helianthus* spp.  
 Freitag, J.H., 1951  
*Malus sylvestris*  
 Freitag, J.H., 1951  
*Malva parviflora*  
 Freitag, J.H., 1951  
*Matricaria suaveolens*  
 Freitag, J.H., 1951  
*Philadelphus lewisii* var. *californicus* \*  
 Freitag, J.H., 1951  
*Plantago lanceolata*  
 Freitag, J.H., 1951  
*Poa pratensis*  
 Freitag, J.H., 1951  
*Polypogon monspeliensis*  
 Freitag, J.H., 1951  
*Populus* spp.  
 Freitag, J.H., 1951  
*Portulaca oleracea*  
 Freitag, J.H., 1951  
*Prunus demissa*  
 Freitag, J.H., 1951  
*Prunus mume*  
 Freitag, J.H., 1951  
*Pseudotsuga taxifolia*  
 Freitag, J.H., 1951  
*Pyracantha angustifolia*  
 Freitag, J.H., 1951  
*Tetragonia expansa*  
 Freitag, J.H., 1951
- V. LUCERNE MOSAIC  
*Beta vulgaris*  
 Kreitlow, K.W. and W.C. Price, 1949  
 Thomas, H. Rex, 1951  
*Brassica oleracea* var. *capitata*  
 Thomas, H. Rex, 1951  
*Cajanus indicus*  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Callistephus chinensis*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Canavalia gladiata*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Capsicum frutescens* (*Capsicum annum*)  
 Johnson, E.M., 1946  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1953  
*Cassia tora*  
 Anderson, C.W., 1954

## VIRUS

- V. LUCERNE MOSAIC (cont.)  
*Cicer arietinum*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Cucumis sativus*  
 Berkeley, G.H., 1947  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1949  
 Zaumeyer, W.J., 1938, 1953  
*Cuscuta campestris*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Dolichos lablab*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Glycine max*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Lactuca sativa*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Lathyrus odoratus*  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1933  
*Lespedeza striata*  
 Zaumeyer, W.J., 1938  
*Lotus corniculatus*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Lupinus albus*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Lupinus* spp.  
 Kreitlow, K.W. and W.C. Price, 1949  
*Lycopersicon esculentum*  
 Berkeley, G.H., 1947  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1949  
 Oswald, John W., 1950  
 Thomas, H. Rex, 1951  
 Zaumeyer, W.J., 1938, 1953  
*Medicago lupulina*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Medicago sativa*  
 Johnson, E.M., 1946  
 Kreitlow, K.W. and W.C. Price, 1949  
 Porter, D.R., 1935  
*Mucuna deeringianum*  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Nicotiana tabacum*  
 Porter, D.R., 1935  
*Parthenium argentatum*  
 Severin, Henry H.P., 1945  
*Petunia hybrida*  
 Zaumeyer, W.J., 1953  
*Phaseolus acutifolius* var. *latifolius*  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Phaseolus calcaratus*  
 Zaumeyer, W.J., 1938  
*Phaseolus lunatus*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Phaseolus lunatus* f. *macrocarpus*  
 Zaumeyer, W.J., 1938  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Phaseolus vulgaris*  
 Harrison, Arthus L., 1935  
*Phytolacca americana*  
 Johnson, E.M., 1946  
*Pisum sativum*  
 Pierce, W.H., 1937  
 Zaumeyer, W.J. and B.L. Wade, 1933, 1935  
*Solanum melongena*  
 Zaumeyer, W.J., 1938  
*Solanum tuberosum*  
 Thomas, H. Rex, 1951  
*Spinacia oleracea*  
 Kreitlow, K.W. and W.C. Price, 1949  
 Thomas, H.R., 1953  
*Trifolium pratense*  
 Zaumeyer, W.J., 1953  
*Trifolium procumbens*  
 Kreitlow, K.W. and W.C. Price, 1949  
*Trifolium repens*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Vigna sesquipedalis*  
 Zaumeyer, W.J. and B.L. Wade, 1935  
*Vigna sinensis*  
 Zaumeyer, W.J. and B.L. Wade, 1935

## VIRUS

## V. LUCERNE MOSAIC (cont.)

Zinnia elegans

Johnson, E. M., 1946

Zaumeyer, W. J., 1938

## V. LUCERNE WITCHES' BROOM Edwards 1936

Astragalus canadensis

Klostermeyer, E. C. and J. D. Menzies, 1951

Astragalus cicer

Klostermeyer, E. C. and J. D. Menzies, 1951

Cuscuta campestris

Helms, Katie, 1957

Kunkel, L. O., 1952

Lathyrus pratensis

Klostermeyer, E. C. and J. D. Menzies, 1951

Lotus corniculatus

Menzies, J. D., 1946

Medicago arabica

Menzies, J. D., 1946

Medicago lacinata

Klostermeyer, E. C. and J. D. Menzies, 1951

Melilotus spp.

Menzies, J. D., 1944

Onobrychis spp.

Menzies, J. D., 1946

Onobrychis transcaucasica

Klostermeyer, E. C. and J. D. Menzies, 1951

Onobrychis viciaefolia

Klostermeyer, E. C. and J. D. Menzies, 1951

Phaseolus vulgaris

Menzies, J. D., 1946

Robinia pseudoacacia

Menzies, J. D., 1946

Swainsona salsula

Klostermeyer, E. C. and J. D. Menzies, 1951

Trifolium fragiferum

Menzies, J. D., 1946

Trifolium hybridum

Menzies, J. D., 1946

Trifolium incarnatum

Menzies, J. D., 1946

Trifolium spp.

Menzies, J. D., 1944

Vicia variabilis

Klostermeyer, E. C. and J. D. Menzies, 1951

## V. LUPINE DISEASE \*

Glycine max

Weimer, J. L., 1950

Lupinus albus

Weimer, J. L., 1950

Lycopersicon esculentum

Weimer, J. L., 1950

## V. MAIZE LEAF FLECK Stoner 1952

Allium cepa

Stoner, Warren N., 1952

Apium graveolens

Stoner, Warren N., 1952

Avena sativa

Stoner, Warren N., 1952

Beta vulgaris

Stoner, Warren N., 1952

Cucurbita pepo

Stoner, Warren N., 1952

Freesia refracta

Stoner, Warren N., 1952

Hordeum vulgare

Stoner, Warren N., 1952

Nicotiana tabacum

Stoner, Warren N., 1952

Saccharum officinarum

Stoner, Warren N., 1952

Sorghum vulgare

Stoner, Warren N., 1952

Sorghum vulgare var. sudanense

Stoner, Warren N., 1952

Triticum vulgare

Stoner, Warren N., 1952

Zantedeschia aethiopica

Stoner, Warren N., 1952

## VIRUS

## V. MAIZE STREAK Storey 1925

Dactylis glomerata

Finley, A. M., 1954

Eleusine indica

Storey, H. H. and A. P. D. McClean, 1930

Nicotiana tabacum

Finley, A. M., 1954

## V. MALVA YELLOW VEIN MOSAIC \*

Althaea rosea

Costa, A. S. and James E. Duffus, 1957

Beta vulgaris

Costa, A. S. and James E. Duffus, 1957

Gossypium hirsutum

Costa, A. S. and James E. Duffus, 1957

Hibiscus esculentus

Costa, A. S. and James E. Duffus, 1957

Lycopersicon esculentum

Costa, A. S. and James E. Duffus, 1957

Nicotiana tabacum

Costa, A. S. and James E. Duffus, 1957

Spinacia oleracea

Costa, A. S. and James E. Duffus, 1957

## V. MILKWEED MOSAIC \*

Lactuca sativa

Newhall, A. G., 1923

## V. MUSKMELON MOSAIC Rader et al. 1947

Allium cepa

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Anthemis cotula

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Apium graveolens

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Aster spp.

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Astragalus spp.

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Baptisia spp.

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Barbarea vulgaris

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Beta vulgaris

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Brassica kaber (Brassica arvensis)

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Brassica rapa

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Browallia elata

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Calendula officinalis

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Capsicum frutescens (Capsicum annum)

Anderson, C. W., 1954

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Chrysanthemum carinatum

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Chrysanthemum segetum

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Citruillus vulgaris

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Coleus blumei

Rader, Wm. E., Hugh F. Fitzpatrick and E. M.

Hildebrand, 1947

Datura stramonium

Lindberg, G. D., D. H. Hall and J. C. Walker, 1956

- VIRUS
- V. MUSKMELON MOSAIC (cont.)
- Erysimum cheiranthoides*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Eschscholtzia californica*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Fagopyrum esculentum*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Glycine max*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Hyocymus albus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Hyocymus niger*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Lactuca sativa*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Malva moschata*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Mentha spicata*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Nicotiana glutinosa*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Nicotiana rustica*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Nicotiana tabacum*  
Anderson, C.W., 1954  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Petunia hybrida*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Phaseolus lunatus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Phaseolus vulgaris*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Portulaca oleracea*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Raphanus sativus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Rorippa palustris*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Rudbeckia hirta*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Secale cereale*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Solanum melongena*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Solanum tuberosum*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Spinacia oleracea*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Trifolium pratense*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Triticum aestivum*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Tropaeolum majus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Verbascum blattaria*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- VIRUS
- V. MUSKMELON MOSAIC (cont.)
- Verbascum thapsus*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Vigna sinensis*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Vinca rosea*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Zea mays*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Zebrina pendula*  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- Zinnia elegans*  
Anderson, C.W., 1954  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
Rader, Wm. E., Hugh F. Fitzpatrick and E.M. Hildebrand, 1947
- V. NARCISSUS MOSAIC McWhorter and Weiss 1932;  
Allium cepa Haasis 1939  
Haasis, Frank A., 1939
- Amaryllis* spp.  
Haasis, Frank A., 1939
- Cooperia* spp.  
Haasis, Frank A., 1939
- Hypoxis* spp.  
Haasis, Frank A., 1939
- Lilium longiflorum* var. *gigantium*  
Haasis, Frank A., 1939
- Pancreatium maritimum*  
Haasis, Frank A., 1939
- Sprekelia formosissima*  
Haasis, Frank A., 1939
- Tulipa gesneriana*  
Haasis, Frank A., 1939
- Zephyranthes candida*  
Haasis, Frank A., 1939
- Zephyranthes carinata*  
Haasis, Frank A., 1939
- V. NARCISSUS WHITE STREAK \*  
*Ornithogalum thyrsoides*  
Smith, Floyd F. and Philip Brierley, 1944
- V. NICOTIANA GLUTINOSA MOSAIC \*  
*Atropa belladonna*  
Allard, H.A., 1916
- Capsicum cerasiforme*  
Allard, H.A., 1916
- Lathyrus odoratus*  
Allard, H.A., 1916
- Lycopersicon esculentum*  
Allard, H.A., 1916
- Nicotiana rustica*  
Allard, H.A., 1916
- Nicotiana tabacum*  
Allard, H.A., 1916
- Phytolacca decandra*  
Allard, H.A., 1916
- Solanum tuberosum*  
Allard, H.A., 1916
- V. NICOTIANA GLUTINOSA ROOT NECROSIS \*  
*Capsicum frutescens* (*Capsicum annuum*)  
Cetas, Robert C. and A. Frank Ross, 1952
- Cucumis sativus*  
Cetas, Robert C. and A. Frank Ross, 1952
- Datura stramonium*  
Cetas, Robert C. and A. Frank Ross, 1952
- Gomphrena globosa*  
Cetas, Robert C. and A. Frank Ross, 1952
- Phaseolus vulgaris*  
Cetas, Robert C. and A. Frank Ross, 1952
- Solanum tuberosum*  
Cetas, Robert C. and A. Frank Ross, 1952
- Vigna sinensis*  
Cetas, Robert C. and A. Frank Ross, 1952
- Zinnia elegans*  
Cetas, Robert C. and A. Frank Ross, 1952

## VIRUS

## V. NOTHOSCORDUM MOSAIC McKinney 1950

- Allium cepa
  - McKinney, H.H., 1950
- Allium vineale
  - McKinney, H.H., 1950
- Avena sativa
  - McKinney, H.H., 1950
- Beta vulgaris
  - McKinney, H.H., 1950
- Cucumis sativus
  - McKinney, H.H., 1950
- Datura stramonium
  - McKinney, H.H., 1950
- Lilium formosanum \*
  - McKinney, H.H., 1950
- Lycopersicon esculentum
  - McKinney, H.H., 1950
- Nicotiana tabacum
  - McKinney, H.H., 1950
- Ornithogalum thyrsoides
  - McKinney, H.H., 1950
- Phaseolus vulgaris
  - McKinney, H.H., 1950
- Sesamum indicum
  - McKinney, H.H., 1950
- Sparaxis tricolor
  - McKinney, H.H., 1950
- Triticum aestivum
  - McKinney, H.H., 1950
- Zea mays
  - McKinney, H.H., 1950

## V. ONION YELLOW DWARF Melhus et al. 1929; Drake, Harris and Tate 1932

- Allium canadense
  - Henderson, W.J., 1935
- Allium fistulosum
  - Brierley, Philip and Floyd F. Smith, 1946
- Allium fistulosum x Allium cepa
  - Brierley, Philip and Floyd F. Smith, 1946
- Allium porrum
  - Henderson, W.J., 1935
- Allium sativum
  - Henderson, W.J., 1935
- Allium schoenoprasum
  - Henderson, W.J., 1935
- Amaranthus retroflexus
  - Henderson, W.J., 1935
- Asclepias syriaca
  - Henderson, W.J., 1935
- Beta vulgaris
  - Henderson, W.J., 1935
- Canna generalis
  - Henderson, W.J., 1935
- Chenopodium album
  - Henderson, W.J., 1935
- Cucumis sativus
  - Henderson, D.M., 1953
  - Henderson, W.J., 1935
- Cucurbita moschata
  - Henderson, W.J., 1935
- Datura stramonium
  - Henderson, D.M., 1953
- Gladiolus spp.
  - Henderson, W.J., 1935
- Hyacinthus orientalis
  - Henderson, W.J., 1935
- Iris persica
  - Henderson, W.J., 1935
- Lilium auratum
  - Henderson, W.J., 1935
- Lilium candidum
  - Henderson, W.J., 1935
- Lilium longiflorum
  - Henderson, W.J., 1935
- Lilium regale
  - Henderson, W.J., 1935
- Lilium speciosum
  - Henderson, W.J., 1935
- Lilium tigrinum
  - Henderson, W.J., 1935
- Medicago sativa
  - Henderson, W.J., 1935

## VIRUS

## V. ONION YELLOW DWARF (cont.)

- Melilotus alba
    - Henderson, W.J., 1935
  - Muhlenbergia mexicana
    - Henderson, W.J., 1935
  - Narcissus poeticus
    - Henderson, W.J., 1935
  - Nicotiana glutinosa
    - Henderson, D.M., 1953
  - Nicotiana tabacum
    - Henderson, D.M., 1953
  - Ornithogalum thyrsoides
    - Smith, Floyd F. and Philip Brierley, 1944
  - Phaseolus vulgaris
    - Henderson, W.J., 1935
  - Plantago major
    - Henderson, W.J., 1935
  - Setaria lutescens
    - Henderson, W.J., 1935
  - Trifolium pratense
    - Henderson, W.J., 1935
  - Tulipa gesneriana
    - Henderson, W.J., 1935
  - Zea indentata
    - Henderson, W.J., 1935
- V. ORCHID (CATTLEYA) MOSAIC Jensen 1949
- Tropaeolum majus
    - Jensen, D.D., 1949
- V. ORCHID (CYMBIDIUM) MOSAIC Jensen 1950
- Apium graveolens
    - Jensen, D.D., 1951
  - Beta vulgaris
    - Jensen, D.D., 1951
  - Brassica chinensis
    - Jensen, D.D., 1951
  - Brassica oleracea var. botrytis
    - Jensen, D.D., 1951
  - Callistephus chinensis
    - Jensen, D.D., 1951
  - Cattleya trianaei
    - Jensen, D.D., 1951
  - Cucurbita maxima
    - Jensen, D.D., 1951
  - Cyclamen persicum (Cyclamen indicum)
    - Jensen, D.D., 1951
  - Datura meteloides
    - Jensen, D.D. and A.H. Gold, 1955
  - Erodium moschatum
    - Jensen, D.D., 1951
  - Fragaria bracteata
    - Jensen, D.D., 1951
  - Freesia refracta
    - Jensen, D.D., 1951
  - Glycine max
    - Jensen, D.D., 1951
  - Lycopersicon esculentum
    - Jensen, D.D., 1951
  - Nicotiana glutinosa
    - Jensen, D.D., 1951
  - Nicotiana tabacum
    - Jensen, D.D., 1951
  - Phaseolus vulgaris
    - Jensen, D.D., 1951
  - Plantago major
    - Jensen, D.D., 1951
  - Primula obconica
    - Jensen, D.D., 1951
  - Raphanus sativus
    - Jensen, D.D., 1951
  - Rubus loganobaccus
    - Jensen, D.D., 1951
  - Trifolium incarnatum
    - Jensen, D.D., 1951
  - Trifolium procumbens
    - Jensen, D.D., 1951
  - Tropaeolum majus
    - Jensen, D.D., 1951
  - Viola spp.
    - Jensen, D.D., 1951
  - Zea mays
    - Jensen, D.D., 1951

- VIRUS
- V. ORCHID (VANDA) MOSAIC Murakishi 1950
- Allium tuberosum*  
Murakishi, Harry H., 1952
- Anthurium andraeanum*  
Murakishi, Harry H., 1952
- Beta vulgaris*  
Murakishi, Harry H., 1952
- Brassica napus* var. *chinensis* \*  
Murakishi, Harry H., 1952
- Callistephus chinensis*  
Murakishi, Harry H., 1952
- Capsicum frutescens* (*Capsicum annuum*)  
Murakishi, Harry H., 1952
- Carica papaya*  
Murakishi, Harry H., 1952
- Cattleya gaskelliana*  
Murakishi, Harry H., 1952
- Cattleya* spp.  
Murakishi, Harry H., 1952
- Cattleya trianaei*  
Murakishi, Harry H., 1952
- Cucumis sativus*  
Murakishi, Harry H., 1952
- Cucurbita pepo*  
Murakishi, Harry H., 1952
- Dianthus caryophyllus*  
Murakishi, Harry H., 1952
- Glycine max*  
Murakishi, Harry H., 1952
- Hemerocallis flava*  
Murakishi, Harry H., 1952
- Hibiscus rosa-sinensis*  
Murakishi, Harry H., 1952
- Impatiens sultanii* (or sometimes *Impatiens holstii*)  
Murakishi, Harry H., 1952
- Laeliocattleya* spp.  
Murakishi, Harry H., 1952
- Lilium longiflorum*  
Murakishi, Harry H., 1952
- Lycopersicon esculentum*  
Murakishi, Harry H., 1952
- Matthiola incana*  
Murakishi, Harry H., 1952
- Neomarica caerulea*  
Murakishi, Harry H., 1952
- Nicotiana glutinosa*  
Murakishi, Harry H., 1952
- Nicotiana rustica*  
Murakishi, Harry H., 1952
- Nicotiana tabacum*  
Murakishi, Harry H., 1952
- Phaseolus vulgaris*  
Murakishi, Harry H., 1952
- Pisum sativum*  
Murakishi, Harry H., 1952
- Tropaeolum majus*  
Murakishi, Harry H., 1952
- Vigna sinensis*  
Murakishi, Harry H., 1952
- Zea mays*  
Murakishi, Harry H., 1952
- Zinnia elegans*  
Murakishi, Harry H., 1952
- V. ORCHID (ODONTOGLOSSUM) RING SPOT Jensen and Gold 1951
- Apium graveolens*  
Jensen, D.D. and A. Herbert Gold, 1951
- Beta vulgaris*  
Jensen, D.D. and A. Herbert Gold, 1951
- Brassica chinensis*  
Jensen, D.D. and A. Herbert Gold, 1951
- Callistephus chinensis*  
Jensen, D.D. and A. Herbert Gold, 1951
- Cucumis sativus*  
Jensen, D.D. and A. Herbert Gold, 1951
- Cucurbita maxima*  
Jensen, D.D. and A. Herbert Gold, 1951
- Cymbidium* spp.  
Jensen, D.D. and A. Herbert Gold, 1951
- Cynara scolymus*  
Jensen, D.D. and A. Herbert Gold, 1951
- Datura stramonium*  
Jensen, D.D. and A. Herbert Gold, 1951
- VIRUS
- V. ORCHID (ODONTOGLOSSUM) RING SPOT (cont.)
- Lactuca sativa*  
Jensen, D.D. and A. Herbert Gold, 1951
- Lycopersicon esculentum*  
Jensen, D.D. and A. Herbert Gold, 1951
- Matthiola incana* var. *annua*  
Jensen, D.D. and A. Herbert Gold, 1951
- Nicotiana glutinosa*  
Jensen, D.D. and A. Herbert Gold, 1951
- Nicotiana tabacum*  
Jensen, D.D. and A. Herbert Gold, 1951
- Plantago major*  
Jensen, D.D. and A. Herbert Gold, 1951
- Trifolium incarnatum*  
Jensen, D.D. and A. Herbert Gold, 1951
- Tropaeolum majus*  
Jensen, D.D. and A. Herbert Gold, 1951
- Vigna sinensis*  
Jensen, D.D. and A. Herbert Gold, 1951
- Zea mays*  
Jensen, D.D. and A. Herbert Gold, 1951
- Zinnia* spp.  
Jensen, D.D. and A. Herbert Gold, 1951
- V. ORNITHOGALUM MOSAIC Smith and Brierley 1944
- Agapanthus africanus*  
Smith, Floyd F. and Philip Brierley, 1944
- Allium cepa*  
Smith, Floyd F. and Philip Brierley, 1944
- Allium cernuum*  
Smith, Floyd F. and Philip Brierley, 1944
- Allium fistulosum*  
Smith, Floyd F. and Philip Brierley, 1944
- Allium porrum*  
Smith, Floyd F. and Philip Brierley, 1944
- Camassia leichtlinii*  
Smith, Floyd F. and Philip Brierley, 1944
- Gloriosa rothschildiana*  
Smith, Floyd F. and Philip Brierley, 1944
- Hyacinthus azureus*  
Smith, Floyd F. and Philip Brierley, 1944
- Lilium formosanum* \*  
Smith, Floyd F. and Philip Brierley, 1944
- Lilium longiflorum*  
Smith, Floyd F. and Philip Brierley, 1944
- Muscari botryoides*  
Smith, Floyd F. and Philip Brierley, 1944
- Nicotiana tabacum*  
Smith, Floyd F. and Philip Brierley, 1944
- Pancratium maritimum*  
Smith, Floyd F. and Philip Brierley, 1944
- Scilla peruviana*  
Smith, Floyd F. and Philip Brierley, 1944
- Tritonia crocata*  
Smith, Floyd F. and Philip Brierley, 1944
- Tulipa gesneriana*  
Smith, Floyd F. and Philip Brierley, 1944
- Zephyranthes* spp.  
Smith, Floyd F. and Philip Brierley, 1944
- V. PANAX RING SPOT Aragaki et al. 1953
- Lycopersicon esculentum*  
Aragaki, M., H. Murakishi and J.W. Hendrix, 1953
- Nicotiana glutinosa*  
Aragaki, M., H. Murakishi and J.W. Hendrix, 1953
- Tropaeolum majus*  
Aragaki, M., H. Murakishi and J.W. Hendrix, 1953
- V. PANICUM MOSAIC \*
- Agropyron elongatum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Agropyron repens*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Aster* spp.  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Avena sativa*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Bromus inermis*  
Sill, W.H., Jr. and R.C. Pickett, 1957

## VIRUS

## V. PANICUM MOSAIC \* (cont.)

- Cyperus esculentus*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Dactylis glomerata*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Eleusine indica*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Gomphrena globosa*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Hordeum vulgare*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Lolium* spp.  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Nicotiana glutinosa*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Nicotiana tabacum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Panicum depauperatum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Panicum maximum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Paspalum* spp.  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Pennisetum glaucum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Phalaris arundinacea*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Secale cereale*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Sorghum vulgare*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Triticum aestivum*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Vinca rosea*  
Sill, W.H., Jr. and R.C. Pickett, 1957
- Zea mays*  
Sill, W.H., Jr. and R.C. Pickett, 1957

## V. PAPA MOSAIC Capoor and Varma 1948

- Abelmoschus esculentus*  
Adsuar, Jose, 1950
- Adenoropium gossypifolium*  
Adsuar, Jose, 1950
- Amaranthus cruentus*  
Adsuar, Jose, 1950
- Amaranthus dubius*  
Adsuar, Jose, 1950
- Beta vulgaris*  
Adsuar, Jose, 1950
- Bidens cynapiifolia*  
Adsuar, Jose, 1950
- Capsicum frutescens* (*Capsicum annum*)  
Adsuar, Jose, 1950
- Catharanthus roseus*  
Adsuar, Jose, 1950
- Citrullus citrullus*  
Adsuar, Jose, 1950
- Cleome spinosa*  
Adsuar, Jose, 1950
- Coleus lanuginosus*  
Adsuar, Jose, 1950
- Crassina elegans*  
Adsuar, Jose, 1950
- Cucumis sativus*  
Adsuar, Jose, 1950
- Cucurbita lagenaria*  
Adsuar, Jose, 1950
- Cucurbita moschata*  
Adsuar, Jose, 1950
- Cucurbita pepo*  
Adsuar, Jose, 1950
- Datura stramonium*  
Adsuar, Jose, 1950
- Emilia sonchifolia*  
Adsuar, Jose, 1950
- Ipomoea crassicaulis*  
Adsuar, Jose, 1950
- Ipomoea pes-caprae*  
Adsuar, Jose, 1950
- Ipomoea quinquefolia*  
Adsuar, Jose, 1950
- Ipomoea rubra*  
Adsuar, Jose, 1950

## VIRUS

## V. PAPA MOSAIC (cont.)

- Isotoma longiflora*  
Adsuar, Jose, 1950
- Jussiaea angustifolia*  
Adsuar, Jose, 1950
- Leonotis nepetaefolia*  
Adsuar, Jose, 1950
- Luffa aegyptiaca* (*Luffa cylindrica*)  
Adsuar, Jose, 1950
- Lycopersicon esculentum*  
Adsuar, Jose, 1950
- Mirabilis jalapa*  
Adsuar, Jose, 1950
- Momordica charantia*  
Adsuar, Jose, 1950
- Nicotiana glutinosa*  
Adsuar, Jose, 1950
- Nicotiana tabacum*  
Adsuar, Jose, 1950
- Passiflora edulis*  
Adsuar, Jose, 1950
- Passiflora foetida*  
Adsuar, Jose, 1950
- Phaseolus lunatus*  
Adsuar, Jose, 1950
- Phaseolus vulgaris*  
Adsuar, Jose, 1950
- Physalis angulata*  
Adsuar, Jose, 1950
- Plantago major*  
Adsuar, Jose, 1950
- Rivina humilis aurantica* \*  
Adsuar, Jose, 1950
- Ruellia tuberosa*  
Adsuar, Jose, 1950
- Sechium edule*  
Adsuar, Jose, 1950
- Sicana odorifera*  
Adsuar, Jose, 1950
- Sida carpinifolia*  
Adsuar, Jose, 1950
- Solanum caribaeum*  
Adsuar, Jose, 1950
- Solanum melongena*  
Adsuar, Jose, 1950
- Solanum torvum*  
Adsuar, Jose, 1950
- Valerianoides jamaicensis*  
Adsuar, Jose, 1950
- Vigna unguiculata*  
Adsuar, Jose, 1950
- Zea mays*  
Adsuar, Jose, 1950

## V. PAPA RING SPOT Jensen 1947

- Beta vulgaris*  
Jensen, D.D., 1949
- Brassica chinensis*  
Jensen, D.D., 1949
- Capsicum frutescens* (*Capsicum annum*)  
Jensen, D.D., 1949
- Commelina diffusa*  
Jensen, D.D., 1949
- Crotalaria incana*  
Jensen, D.D., 1949
- Cucumis sativus*  
Jensen, D.D., 1949
- Kalanchoe* (*Bryophyllum*) *calycinum*)  
Jensen, D.D., 1949
- Lactuca sativa*  
Jensen, D.D., 1949
- Lycopersicon esculentum*  
Jensen, D.D., 1949
- Malvastrum coromandelianum*  
Jensen, D.D., 1949
- Mirabilis jalapa*  
Jensen, D.D., 1949
- Nicotiana tabacum*  
Jensen, D.D., 1949
- Passiflora foetida*  
Jensen, D.D., 1949
- Passiflora pfordtii*  
Jensen, D.D., 1949

- VIRUS
- V. PAPAWE RING SPOT (cont.)  
*Portulaca oleracea*  
 Jensen, D.D., 1949  
*Solanum tuberosum*  
 Jensen, D.D., 1949
- V. PEA DIE BACK \*  
*Phaseolus vulgaris*  
 Zaumeyer, W.J., 1939
- V. PEA ENATION MOSAIC Pierce 1935  
*Apium graveolens* var. *dulce*  
 Simons, John N., 1954  
*Arachis hypogaea*  
 Osborn, H.T., 1938  
*Beta vulgaris*  
 Simons, John N., 1954  
*Brassica juncea* (*Brassica japonica*)  
 Simons, John N., 1954  
*Cicer arietinum*  
 Johnson, Folke and Leon K. Jones, 1937  
*Cucumis sativus*  
 Ainsworth, G.C., 1940  
 Simons, John N., 1954  
*Lactuca sativa* var. *capitata*  
 Ainsworth, G.C., 1940  
*Lens esculenta*  
 Johnson, Folke and Leon K. Jones, 1937  
*Lotus corniculatus*  
 McEwen, F.L. and W.T. Schroeder, 1956  
*Lotus uliginosus*  
 McEwen, F.L. and W.T. Schroeder, 1956  
*Lupinus albus*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Stubbs, M.W., 1937  
*Lycopersicon esculentum*  
 Ainsworth, G.C., 1940  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*Medicago lupulina*  
 Johnson, Folke and Leon K. Jones, 1937  
 McEwen, F.L. and W.T. Schroeder, 1956  
*Medicago sativa*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*Melilotus alba*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Stubbs, M.W., 1937  
*Melilotus officinalis*  
 Johnson, Folke and Leon K. Jones, 1937  
 Pierce, W.H., 1935  
*Nicotiana glutinosa*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Osborn, H.T., 1938  
 Stubbs, M.W., 1937  
*Nicotiana langsdorffii*  
 Osborn, H.T., 1938  
*Nicotiana sylvestris*  
 Osborn, H.T., 1938  
*Nicotiana tabacum*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Johnson, Folke and Leon K. Jones, 1937  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*Petunia hybrida*  
 Pierce, W.H., 1935  
*Phaseolus aureus*  
 Osborn, H.T., 1938  
*Phaseolus vulgaris*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950
- VIRUS
- V. PEA ENATION MOSAIC (cont.)  
*Phaseolus vulgaris*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 McEwen, F.L. and W.T. Schroeder, 1956  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935, 1937  
 Simons, John N., 1954  
 Stubbs, M.W., 1936, 1937  
*Solanum tuberosum*  
 Osborn, H.T., 1938  
*Trifolium hybridum*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 McEwen, F.L. and W.T. Schroeder, 1956  
 Osborn, H.T., 1938  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*Trifolium pratense*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Johnson, Folke and Leon K. Jones, 1937  
 McEwen, F.L. and W.T. Schroeder, 1956  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1936, 1937  
*Trifolium repens*  
 Ainsworth, G.C., 1940  
 Chaudhuri, R.P., 1950  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Johnson, Folke and Leon K. Jones, 1937  
 Osborn, H.T., 1938  
 Pierce, W.H., 1935  
 Simons, John N., 1954  
 Stubbs, M.W., 1937  
*Trifolium subterranean*  
 Chaudhuri, R.P., 1950  
*Vicia faba*  
 Chaudhuri, R.P., 1950  
 Johnson, Folke and Leon K. Jones, 1937  
 Simons, John N., 1954  
*Vicia sativa*  
 Chaudhuri, R.P., 1950  
 Johnson, Folke and Leon K. Jones, 1937  
*Vicia villosa*  
 Simons, John N., 1954  
*Vigna sinensis*  
 Hagedorn, D.J. and J.C. Walker, 1954  
 Stubbs, M.W., 1937
- V. PEA MOSAIC Doolittle and Jones 1925; Chamberlain 1936, 1937  
*Allium cepa*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Apios americana* (*Apios tuberosa*)  
 Murphy, D.M. and W.H. Pierce, 1937  
*Armeria formosa*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Aster* spp.  
 Murphy, D.M. and W.H. Pierce, 1937  
*Baptisia australis*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Brassica oleracea* var. *capitata*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Bromus brizaeformis*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Calendula officinalis*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Calonyction aculeatum*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Campanula medium*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Campanula pyramidalis*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Cassia medsgeri*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Crotalaria retusa*  
 Murphy, D.M. and W.H. Pierce, 1937  
*Cucumis sativus*  
 Ainsworth, G.C., 1940  
 Murphy, D.M. and W.H. Pierce, 1937  
*Cucurbita maxima*  
 Murphy, D.M. and W.H. Pierce, 1937

## VIRUS

## V. PEA MOSAIC (cont.)

- Delphinium grandiflorum*  
Murphy, D.M. and W.H. Pierce, 1937
- Dianthus barbatus*  
Murphy, D.M. and W.H. Pierce, 1937
- Dianthus deltoides*  
Murphy, D.M. and W.H. Pierce, 1937
- Digitalis purpurea*  
Murphy, D.M. and W.H. Pierce, 1937
- Dolichos lablab*  
Murphy, D.M. and W.H. Pierce, 1937
- Dolichos lignosus*  
Murphy, D.M. and W.H. Pierce, 1937
- Geranium sanguineum*  
Murphy, D.M. and W.H. Pierce, 1937
- Glycine max*  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1937
- Impatiens balsamina*  
Murphy, D.M. and W.H. Pierce, 1937
- Lactuca sativa* var. *capitata*  
Ainsworth, G.C., 1940
- Lathyrus latifolius*  
Murphy, D.M. and W.H. Pierce, 1937
- Lathyrus tuberosus*  
Murphy, D.M. and W.H. Pierce, 1937
- Lavatera trimestris*  
Murphy, D.M. and W.H. Pierce, 1937
- Linum grandiflorum*  
Murphy, D.M. and W.H. Pierce, 1937
- Lobelia* spp.  
Murphy, D.M. and W.H. Pierce, 1937
- Lotus ornithopodioides*  
Murphy, D.M. and W.H. Pierce, 1937
- Lupinus polyphyllus*  
Chaudhuri, R.P., 1950
- Lycopersicon esculentum*  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Osborn, H.T., 1937  
Stubbs, M.W., 1937
- Lycopersicon esculentum* var. *commune* \*  
Murphy, D.M. and W.H. Pierce, 1937
- Matthiola incana*  
Murphy, D.M. and W.H. Pierce, 1937
- Medicago lupulina*  
Murphy, D.M. and W.H. Pierce, 1937
- Medicago sativa*  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1937
- Melilotus alba*  
Hagedorn, D.J. and J.C. Walker, 1954  
Stubbs, M.W., 1937
- Melilotus officinalis*  
Osborn, H.T., 1938
- Mesembryanthemum crystallinum*  
Murphy, D.M. and W.H. Pierce, 1937
- Mirabilis jalapa*  
Murphy, D.M. and W.H. Pierce, 1937
- Myosotis sylvatica*  
Murphy, D.M. and W.H. Pierce, 1937
- Nicotiana glutinosa*  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Osborn, H.T., 1937  
Stubbs, M.W., 1937
- Nicotiana tabacum*  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1937
- Oenothera missouriensis*  
Murphy, D.M. and W.H. Pierce, 1937

## VIRUS

## V. PEA MOSAIC (cont.)

- Pastinaca sativa*  
Murphy, D.M. and W.H. Pierce, 1937
- Petunia hybrida*  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935
- Phacelia campanularia*  
Murphy, D.M. and W.H. Pierce, 1937
- Phaseolus aconitifolius*  
Murphy, D.M. and W.H. Pierce, 1937
- Phaseolus aureus*  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1937
- Phaseolus coccineus*  
Murphy, D.M. and W.H. Pierce, 1937
- Phaseolus limensis*  
Murphy, D.M. and W.H. Pierce, 1937
- Phaseolus vulgaris*  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Harrison, Arthur L., 1935  
Murphy, D.M. and W.H. Pierce, 1937  
Pierce, W.H., 1935, 1937  
Stubbs, M.W., 1936, 1937  
Zaumeier, W.J. and B.L. Wade, 1936
- Phlox drummondii*  
Murphy, D.M. and W.H. Pierce, 1937
- Physalis pubescens*  
Murphy, D.M. and W.H. Pierce, 1937
- Pueraria hirsuta*  
Murphy, D.M. and W.H. Pierce, 1937
- Raphanus sativus*  
Murphy, D.M. and W.H. Pierce, 1937
- Ricinus communis*  
Murphy, D.M. and W.H. Pierce, 1937
- Rumex acetosa*  
Murphy, D.M. and W.H. Pierce, 1937
- Saponaria vaccaria*  
Murphy, D.M. and W.H. Pierce, 1937
- Scabiosa atropurpurea*  
Murphy, D.M. and W.H. Pierce, 1937
- Setaria lutescens*  
Murphy, D.M. and W.H. Pierce, 1937
- Solanum nigrum*  
Murphy, D.M. and W.H. Pierce, 1937
- Thunbergia alata*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium hybridum*  
Hagedorn, D.J. and J.C. Walker, 1954  
Stubbs, M.W., 1937
- Trifolium medium*  
Murphy, D.M. and W.H. Pierce, 1937
- Trifolium pratense*  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Stubbs, M.W., 1936, 1937  
Zaumeier, W.J. and B.L. Wade, 1935
- Trifolium repens*  
Ainsworth, G.C., 1940  
Chaudhuri, R.P., 1950  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Osborn, H.T., 1937  
Pierce, W.H., 1935  
Stubbs, M.W., 1937
- Tropaeolum majus*  
Murphy, D.M. and W.H. Pierce, 1937
- Valerianella olitoria*  
Murphy, D.M. and W.H. Pierce, 1937
- Verbascum thapsus*  
Murphy, D.M. and W.H. Pierce, 1937
- Vicia villosa*  
Murphy, D.M. and W.H. Pierce, 1937
- Vigna sinensis*  
Hagedorn, D.J. and J.C. Walker, 1954  
Murphy, D.M. and W.H. Pierce, 1937  
Stubbs, M.W., 1937, 1937
- Viola tricolor* var. *hortensis*  
Murphy, D.M. and W.H. Pierce, 1937



## VIRUS

- V. PEA MOTTLE F. Johnson 1942  
*Barbarea vulgaris*  
 Johnson, Folke, 1942  
*Beta vulgaris*  
 Johnson, Folke, 1942  
*Brassica oleracea* var. *capitata*  
 Johnson, Folke, 1942  
*Callistephus chinensis*  
 Johnson, Folke, 1942  
*Cicer arietinum*  
 Johnson, F. and L.K. Jones, 1936, 1937  
*Cuscuta campestris*  
 Johnson, Folke, 1942  
*Datura stramonium*  
 Johnson, Folke, 1942  
*Glycine max*  
 Johnson, Folke, 1942  
*Lactuca sativa*  
 Johnson, Folke, 1942  
*Lilium formosanum* \*  
 Johnson, Folke, 1942  
*Lycopersicon esculentum*  
 Johnson, Folke, 1942  
*Nicotiana glutinosa*  
 Johnson, Folke, 1942  
*Nicotiana rustica*  
 Johnson, Folke, 1942  
*Nicotiana sylvestris*  
 Johnson, Folke, 1942  
*Nicotiana tabacum*  
 Johnson, Folke and Leon K. Jones, 1937  
*Plantago lanceolata*  
 Johnson, Folke, 1942  
*Plantago major*  
 Johnson, Folke, 1942  
*Raphanus sativus*  
 Johnson, Folke, 1942  
*Rumex acetosella*  
 Johnson, Folke, 1942  
*Solanum nigrum*  
 Johnson, Folke, 1942  
*Taraxacum officinale*  
 Johnson, Folke, 1942  
*Vigna sinensis*  
 Johnson, Folke, 1942  
*Zea mays*  
 Johnson, Folke, 1942  
*Zinnia elegans*  
 Johnson, Folke, 1942
- V. PEA STEM STREAK \*  
*Phaseolus vulgaris*  
 Zaumeyer, W.J., 1939
- V. PEA STREAK Zaumeyer and Wade 1938  
*Cajanus indicus*  
 Zaumeyer, W.J., 1938  
*Capsicum frutescens* (*Capsicum annuum*)  
 Zaumeyer, W.J., 1938  
*Cucumis sativus*  
 Zaumeyer, W.J., 1938  
*Datura stramonium*  
 Zaumeyer, W.J., 1938  
*Lathyrus odoratus*  
 Zaumeyer, W.J., 1938  
*Lespedeza striata*  
 Zaumeyer, W.J., 1938  
*Lupinus albus*  
 Zaumeyer, W.J., 1938  
*Lupinus luteus*  
 Zaumeyer, W.J., 1938  
*Lycopersicon esculentum*  
 Zaumeyer, W.J., 1938  
*Mucuna deeringianum*  
 Zaumeyer, W.J., 1938  
*Nicotiana tabacum*  
 Zaumeyer, W.J., 1938  
*Petunia hybrida*  
 Zaumeyer, W.J., 1938  
*Phaseolus acutifolius* var. *latifolius*  
 Zaumeyer, W.J., 1938

## VIRUS

- V. PEA STREAK (cont.)  
*Phaseolus angularis*  
 Zaumeyer, W.J., 1938  
*Phaseolus aureus*  
 Zaumeyer, W.J., 1938  
*Phaseolus calcaratus*  
 Zaumeyer, W.J., 1938  
*Phaseolus lunatus*  
 Zaumeyer, W.J., 1938  
*Phaseolus lunatus* f. *macrocarpus*  
 Zaumeyer, W.J., 1938  
*Phaseolus mungo*  
 Zaumeyer, W.J., 1938  
*Phaseolus vulgaris*  
 Zaumeyer, W.J., 1938  
*Solanum melongena*  
 Zaumeyer, W.J., 1938  
*Solanum tuberosum*  
 Zaumeyer, W.J., 1938  
*Vicia villosa*  
 Zaumeyer, W.J., 1938  
*Vigna sesquipedalis*  
 Zaumeyer, W.J., 1938  
*Vigna sinensis*  
 Zaumeyer, W.J., 1938  
*Zinnia elegans*  
 Zaumeyer, W.J., 1938
- V. PEA WILT F. Johnson 1942  
*Antirrhinum majus*  
 Johnson, Folke, 1942  
*Barbarea vulgaris*  
 Johnson, Folke, 1942  
*Beta vulgaris*  
 Johnson, Folke, 1942  
*Brassica oleracea* var. *capitata*  
 Johnson, Folke, 1942  
*Callistephus chinensis*  
 Johnson, Folke, 1942  
*Cucumis sativus*  
 Johnson, Folke, 1942  
*Cuscuta campestris*  
 Johnson, Folke, 1942  
*Datura stramonium*  
 Johnson, Folke, 1942  
*Glycine max*  
 Johnson, Folke, 1942  
*Lactuca sativa*  
 Johnson, Folke, 1942  
*Lilium formosanum* \*  
 Johnson, Folke, 1942  
*Lupinus hirsutus*  
 Johnson, Folke, 1942  
*Lycopersicon esculentum*  
 Johnson, Folke, 1942  
*Medicago sativa*  
 Johnson, Folke, 1942  
*Nicotiana glutinosa*  
 Johnson, Folke, 1942  
*Nicotiana rustica*  
 Johnson, Folke, 1942  
*Nicotiana sylvestris*  
 Johnson, Folke, 1942  
*Nicotiana tabacum*  
 Johnson, Folke, 1942  
*Phaseolus vulgaris*  
 Pierce, W.H., 1935  
*Plantago lanceolata*  
 Johnson, Folke, 1942  
*Plantago major*  
 Johnson, Folke, 1942  
*Raphanus sativus*  
 Johnson, Folke, 1942  
*Rumex acetosella*  
 Johnson, Folke, 1942  
*Solanum nigrum*  
 Johnson, Folke, 1942  
*Spinacia oleracea*  
 Johnson, Folke, 1942  
*Stellaria media*  
 Johnson, Folke, 1942  
*Taraxacum officinale*  
 Johnson, Folke, 1942

## VIRUS

- V. PEA WILT (cont.)  
*Zea mays*  
 Johnson, Folke, 1942  
*Zinnia elegans*  
 Johnson, Folke, 1942
- V. PEA YELLOW MOSAIC \*  
*Cucumis sativus*  
 Ainsworth, G.C., 1940  
*Lactuca sativa* var. *capitata*  
 Ainsworth, G.C., 1940  
*Lycopersicon esculentum*  
 Ainsworth, G.C., 1940  
*Phaseolus vulgaris*  
 Ainsworth, G.C., 1940  
*Trifolium repens*  
 Ainsworth, G.C., 1940
- V. PEACH BLOTCH Willison 1946  
*Prunus armeniaca*  
 Willison, R.S., 1946  
*Prunus avium*  
 Willison, R.S., 1946  
*Prunus cerasifera*  
 Willison, R.S., 1946  
*Prunus cerasus*  
 Willison, R.S., 1946  
*Prunus domestica*  
 Willison, R.S., 1946  
*Prunus mahaleb*  
 Willison, R.S., 1946  
*Prunus salicina*  
 Willison, R.S., 1946
- V. PEACH MOSAIC Hutchins 1932  
*Cuscuta californica*  
 Bennett, C.W., 1944  
*Cuscuta campestris*  
 Bennett, C.W., 1944  
*Cuscuta subinclusa*  
 Bennett, C.W., 1944  
*Prunus cerasus*  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus fasciculata*  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus fremontii*  
 Richards, B.L. and L.C. Cochran, 1956  
*Prunus persica* (*Amygdalus persica*)  
 Bodine, E.W. and L.W. Durrell, 1941  
*Prunus virginiana* var. *demissa*  
 Richards, B.L. and L.C. Cochran, 1956
- V. PEACH NECROTIC LEAF SPOT Cation 1942  
*Prunus cerasus*  
 Fridlund, Paul R., 1954  
*Prunus persica* (*Amygdalus persica*)  
 Fridlund, Paul R., 1954  
*Prunus tomentosa*  
 Fridlund, Paul R., 1954
- V. PEACH RING SPOT Cochran and Hutchins 1941  
*Citrullus vulgaris*  
 Hobbs, Gordon A., 1951  
*Cucurbita maxima*  
 Hobbs, Gordon A., 1951  
*Prunus besseyi*  
 Fink, Harry C., 1950, 1955  
*Prunus domestica*  
 Moore, J. Duain and G.W. Keitt, 1944  
*Prunus salicina* x *Prunus americana*  
 Fink, Harry C., 1950  
*Prunus salicina* x *Prunus munsoniana*  
 Fink, Harry C., 1955
- V. PEACH ROSETTE ((E.F. Smith 1891)) McClintock  
*Erigeron canadensis* 1923  
 McClintock, J.A., 1931
- V. PEACH WESTERN X DISEASE Reeves and Hutchins  
*Cuscuta campestris* 1941  
 Weathers, Lewis G. and George W. Cochran, 1950  
*Cuscuta subinclusa*  
 Weathers, Lewis G. and George W. Cochran, 1950

## VIRUS

- V. PEACH WESTERN X DISEASE (cont.)  
*Prunus andersoni*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus cerasifera*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus domestica*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus emarginata*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus fremontii*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus ilicifolia*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus mahaleb*  
 Rawlins, T.E. and K.G. Parker, 1934  
*Prunus marianna* \*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Prunus subcordata*  
 Rawlins, T.E. and H. Earl Thomas, 1941  
*Rosa californica*  
 Rawlins, T.E. and H. Earl Thomas, 1941
- V. PEACH X DISEASE Stoddard 1938  
*Cuscuta campestris*  
 Hildebrand, E.M., 1953  
 Kunkel, L.O., 1944  
*Cuscuta subinclusa*  
 Slack, Derald A., 1952  
*Prunus serotina*  
 Gilmer, R.M., 1951  
 Gilmer, R.M., J. Duain Moore and G.W. Keitt, 1954
- V. PEACH YELLOW BUD MOSAIC Thomas et al. 1944  
*Prunus avium*  
 Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957  
*Prunus cerasifera*  
 Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957  
*Prunus salicina*  
 Schlocker, Archie, H. Keith Wagon and James R. Breece, 1957
- V. PELARGONIUM LEAF CURL Pape 1927  
*Lycopersicon esculentum*  
 Jones, Leon K., 1940
- V. PELARGONIUM RING SPOT \*  
*Alonsoa warscewiczii*  
 Hollings, M., 1957  
*Amaranthus caudatus*  
 Hollings, M., 1957  
*Antirrhinum majus*  
 Hollings, M., 1957  
*Brassica pekinensis*  
 Hollings, M., 1957  
*Chenopodium amaranticolor*  
 Hollings, M., 1957  
*Cucumis sativus*  
 Hollings, M., 1957  
*Gomphrena globosa*  
 Hollings, M., 1957  
*Lactuca sativa*  
 Hollings, M., 1957  
*Lavatera trimestris*  
 Hollings, M., 1957  
*Nicandra physalodes*  
 Hollings, M., 1957  
*Nicotiana clevelandi*  
 Hollings, M., 1957  
*Nicotiana glutinosa*  
 Hollings, M., 1957  
*Nicotiana rustica*  
 Hollings, M., 1957  
*Nicotiana tabacum*  
 Hollings, M., 1957  
*Phaseolus vulgaris*  
 Hollings, M., 1957  
*Physalis floridana*  
 Hollings, M., 1957  
*Tetragonia expansa*  
 Hollings, M., 1957

- VIRUS
- V. PELARGONIUM RING SPOT \* (cont.)
- Vicia faba*  
Hollings, M., 1957
  - Vigna sinensis*  
Hollings, M., 1957
  - Zinnia elegans*  
Hollings, M., 1957
- V. PEONY LEAF CURL \*
- Antirrhinum majus*  
Brierley, Philip and Paul Lorentz, 1957
  - Dianthus barbatus*  
Brierley, Philip and Paul Lorentz, 1957
  - Gomphrena* spp.  
Brierley, Philip and Paul Lorentz, 1957
  - Nicotiana tabacum*  
Brierley, Philip and Paul Lorentz, 1957
  - Petunia hybrida*  
Brierley, Philip and Paul Lorentz, 1957
  - Silene compacta*  
Brierley, Philip and Paul Lorentz, 1957
  - Verbesina encelioides*  
Brierley, Philip and Paul Lorentz, 1957
- V. PETUNIA MOSAIC Johnson 1926
- Capsicum frutescens* (*Capsicum annuum*)  
Johnson, J., 1926, 1927
  - Solanum melongena*  
Johnson, J., 1926
- V. PHYSALIS FLORIDANA YELLOW NET Webb 1955
- Beta vulgaris*  
Webb, R.E., 1955
  - Brassica campestris* var. *napobrassica*  
Webb, R.E., 1955
  - Brassica oleracea* var. *acephala*  
Webb, R.E., 1955
  - Brassica oleracea* var. *botrytis*  
Webb, R.E., 1955
  - Brassica rapa*  
Webb, R.E., 1955
  - Lycopersicon esculentum*  
Webb, R.E., 1955
  - Nicotiana glutinosa*  
Webb, R.E., 1955
  - Nicotiana rustica*  
Webb, R.E., 1955
  - Nicotiana tabacum*  
Webb, R.E., 1955
  - Solanum tuberosum*  
Webb, R.E., 1955
- V. PIGEON PEA STERILITY MOSAIC Capoor 1952
- Cyamopsis psoraloides*  
Capoor, S.P., 1952
  - Datura innoxia*  
Capoor, S.P., 1952
  - Nicotiana tabacum*  
Capoor, S.P., 1952
  - Phaseolus vulgaris*  
Capoor, S.P., 1952
  - Physalis peruviana*  
Capoor, S.P., 1952
- V. POKEWEED MOSAIC \*
- Cucumis sativus*  
Doolittle, S.P. and W.W. Gilbert, 1918
  - Datura stramonium*  
Allard, H.A., 1918
  - Lycopersicon esculentum*  
Allard, H.A., 1918
  - Nicotiana tabacum*  
Allard, H.A., 1918
  - Petunia hybrida*  
Allard, H.A., 1918
  - Physalis pubescens*  
Allard, H.A., 1918
  - Solanum nigrum*  
Allard, H.A., 1918
- VIRUS
- V. POTATO A Murphy and McKay 1932
- Callistephus chinensis*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Capsicum frutescens* (*Capsicum annuum*)  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Cucumis sativus*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura aegyptiaca*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura bernhardii*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura chorantha*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura fastuosa*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura ferox*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura metel*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Datura meteloides*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Lycopersicon esculentum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Nicotiana glutinosa*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Nicotiana rustica*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
  - Nicotiana tabacum*  
Koch, Karl and James Johnson, 1935  
Schultz, E.S. and Donald Folsom, 1923
  - Petunia hybrida*  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
  - Physalis angulata*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Physalis floridana*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Physalis peruviana*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Physalis pubescens*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Physalis virginiana*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum andigenum* \*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum carolinense*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum chacoense*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum commersonii*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum dulcamara*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum integrifolium*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
  - Solanum longipedicellatum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953

## VIRUS

## V. POTATO A (cont.)

- Solanum nigrum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- Solanum nodiflorum*  
Vasudeva, R. Sahai and C.S. Ramamoorthy, 1946
- Solanum polyadenium*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Solanum pseudocapsicum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Solanum saltense*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Solanum schickii*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Solanum verrucosum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Trifolium hybridum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Trifolium incarnatum*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Trifolium pratense*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Trifolium repens*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Vigna sinensis*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953
- Zinnia linearis*  
MacLachlan, D.S., R.H. Larson and J.C. Walker, 1953

## V. POTATO LEAF ROLL Appel 1907

- Brassica campestris*  
MacCarthy, H.R., 1954
- Brassica campestris* var. *napobrassica*  
MacCarthy, H.R., 1954
- Brassica juncea* (*Brassica japonica*)  
MacCarthy, H.R., 1954
- Brassica napus*  
MacCarthy, H.R., 1954
- Brassica nigra*  
MacCarthy, H.R., 1954
- Brassica oleracea* var. *botrytis*  
MacCarthy, H.R., 1954
- Brassica oleracea* var. *capitata*  
MacCarthy, H.R., 1954
- Brassica pekinensis*  
MacCarthy, H.R., 1954
- Capsicum frutescens* (*Capsicum annum*)  
Dykstra, T.P., 1933
- Malva* spp.  
MacCarthy, H.R., 1954
- Nicotiana tabacum*  
Koch, Karl and James Johnson, 1935  
Quanjer, H.M., 1920
- Physalis francheti*  
MacCarthy, H.R., 1954
- Physalis heterophylla*  
MacCarthy, H.R., 1954
- Physalis ixocarpa*  
MacCarthy, H.R., 1954
- Physalis peruviana*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Physalis pubescens*  
MacCarthy, H.R., 1954  
Webb, R.E., R.H. Larson and J.C. Walker, 1952
- Physalis* spp.  
Dykstra, T.P., 1933
- Solanum melongena*  
Webb, R.E., R.H. Larson and J.C. Walker, 1952

## VIRUS

## V. POTATO LEAF ROLLING MOSAIC ((Schultz and Folsom 1923)) Folsom 1926; J. Johnson 1929

- Nicotiana tabacum*  
Dykstra, T.P., 1939

## V. POTATO M \*

- Capsicum frutescens* (*Capsicum annum*)  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Nicotiana glauca*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Nicotiana glutinosa*  
Bagnall, R.H. and R.H. Larson, 1957
- Nicotiana sylvestris*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Nicotiana tabacum*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Physalis floridana*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Physalis philadelphica*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956

## V. POTATO PARACRINKLE Salaman and LePelley 1930

- Capsicum frutescens* (*Capsicum annum*)  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Lycopersicon esculentum*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Kassanis, B., 1955
- Nicotiana glauca*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Nicotiana glutinosa*  
Bagnall, R.H. and R.H. Larson, 1957  
Kassanis, B., 1955
- Nicotiana sylvestris*  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Nicotiana tabacum*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Kassanis, B., 1955
- Physalis floridana*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956
- Solanum melongena*  
Bagnall, R.H. and R.H. Larson, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956

## V. POTATO SPINDLE TUBER K.M. Smith 1957

- Datura stramonium*  
Goss, R.W., 1931
- Nicotiana glauca*  
Goss, R.W., 1931
- Physalis heterophylla*  
Goss, R.W., 1931
- Solanum lycopersicum*  
Goss, R.W., 1931

## V. POTATO STEM MOTTLE Rozendaal 1947

- Cuscuta campestris*  
Van der Want, J.P.H., 1955
- Cuscuta subinclusa*  
Van der Want, J.P.H., 1955

## V. POTATO YELLOW DWARF Barrus and Chupp 1922

- Cucumis sativus*  
Hougas, R.W., 1951

- VIRUS  
V. POTATO YELLOW DWARF (cont.)  
*Medicago sativa*  
Black, L.M., 1943  
*Phaseolus lunatus*  
Hougas, R.W., 1951  
*Vigna sinensis*  
Hougas, R.W., 1951
- V. POTATO X K.M. Smith 1931  
*Atropa belladonna*  
Cockerham, George, 1943  
Dennis, R.W.G., 1939  
*Brassica hirta* (*Brassica alba*)  
Johnson, E.M., 1930  
*Brassica oleracea*  
Johnson, E.M., 1930  
*Brassica rapa* var. *depressa* \*  
Johnson, E.M., 1930  
*Capsicum frutescens* (*Capsicum annuum*)  
Dykstra, T.P., 1933  
*Glycine max*  
Johnson, E.M., 1930  
*Lagenaria vulgaris*  
Vasudeva, R. Sahai and T.B. Lal, 1944  
*Lycium barbarum*  
Cockerham, George, 1943  
*Nicotiana glauca*  
Johnson, James, 1927  
*Petunia hybrida*  
Vasudeva, R. Sahai and T.B. Lal, 1944  
*Phaseolus vulgaris*  
Folsom, Donald and Reiner Bonde, 1937  
Johnson, E.M., 1930  
*Physalis francheti*  
Smith, J. Henderson, 1928  
*Phytolacca decandra*  
Johnson, James, 1927  
*Pisum sativum*  
Johnson, E.M., 1930  
*Raphanus sativus*  
Johnson, E.M., 1930  
*Solanum dulcamara*  
Dykstra, T.P., 1933  
*Solanum melongena* var. *esculentum*  
Smith, J. Henderson, 1928  
*Solanum tuberosum*  
Hamilton, Marion A., 1932  
Johnson, James, 1927
- V. POTATO Y Smith 1931  
*Ananas comosus*  
Sakimura, K., 1953  
*Atropa belladonna*  
Cockerham, George, 1943  
*Beta vulgaris*  
Johnson, E.M., 1930  
*Brassica hirta* (*Brassica alba*)  
Johnson, E.M., 1930  
*Brassica oleracea*  
Johnson, E.M., 1930  
*Brassica oleracea* var. *capitata*  
Bawden, F.C. and F.M.L. Sheffield, 1944  
*Brassica oleracea* var. *gemmifera*  
Bawden, F.C. and F.M.L. Sheffield, 1944  
*Brassica rapa* var. *depressa* \*  
Johnson, E.M., 1930  
*Capsicum frutescens* (*Capsicum annuum*)  
Cockerham, George, 1943  
Dykstra, T.P., 1933  
*Cassia tora*  
Anderson, C.W., 1954  
*Cucumis sativus*  
Alvarez-Garcia, L.A. and Jose Adsuar, 1943  
Bald, J.G. and D.O. Norris, 1945  
Johnson, E.M., 1930  
Roque, Arturo and Jose Adsuar, 1941  
*Datura aegyptiaca*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
*Datura fastuosa*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
*Datura meteloides*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951
- VIRUS  
V. POTATO Y (cont.)  
*Datura stramonium*  
Anderson, C.W. and M.K. Corbett, 1957  
Bagnall, R.H., R.H. Larson and J.C. Walker, 1956  
Bald, J.G. and D.O. Norris, 1945  
Bawden, F.C. and B. Kassanis, 1951  
Bawden, F.C. and F.M.L. Sheffield, 1944  
Cockerham, George, 1943  
Conover, Robert A. and Robert W. Fulton, 1953  
Dennis, R.W.G., 1939  
Dykstra, T.P., 1933  
Johnson, E.M., 1930  
Jones, Leon K. and C.L. Vincent, 1937  
Koch, K.L., 1933  
Roque, Arturo and Jose Adsuar, 1941  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
Vasudeva, R. Sahai and T.B. Lal, 1945  
*Datura stramonium* var. *chalybea* \*  
Sakimura, K., 1953  
*Datura stramonium* var. *tatula*  
Darby, J.F., R.H. Larson and J.C. Walker, 1951  
Dykstra, T.P., 1933  
*Emilia sonchifolia*  
Sakimura, K., 1953  
*Glycine max*  
Johnson, E.M., 1930  
*Gomphrena globosa*  
Ross, A. Frank, 1950  
*Lycopersicon esculentum*  
Hamilton, Marion A., 1932  
*Nicandra physalodes*  
Johnson, E.M., 1930  
*Nicotiana repanda*  
Roque, Arturo and Jose Adsuar, 1941  
*Nicotiana sylvestris*  
Roque, Arturo and Jose Adsuar, 1941  
*Nicotiana tabacum*  
Dennis, R.W.G., 1939  
*Phaseolus lunatus*  
Roque, Arturo and Jose Adsuar, 1941  
*Phaseolus vulgaris*  
Bald, J.G. and D.O. Norris, 1945  
Johnson, E.M., 1930  
Peterson, Paul D. and H.H. McKinney, 1938  
Roque, Arturo and Jose Adsuar, 1941  
*Physalis longifolia*  
Koch, K.L., 1933  
*Phytolacca decandra*  
Johnson, E.M., 1930  
Johnson, James, 1927  
*Pisum sativum*  
Bald, J.G. and D.O. Norris, 1945  
Johnson, E.M., 1930  
*Raphanus sativus*  
Johnson, E.M., 1930  
*Schizanthus retusus*  
Smith, Kenneth M. and R.W.G. Dennis, 1940  
*Solanum antipoviczii*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
*Solanum carolinense*  
Johnson, E.M., 1930  
Koch, K.L., 1933  
(*Solanum demissum* x *Solanum goniocalyx*) x (*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
(*Solanum demissum* x *Solanum rybinii*) x (*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
(*Solanum demissum* x *Solanum soukupii*) x (*Solanum stoloniferum*)  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958  
*Solanum dulcamara*  
Dykstra, T.P., 1933  
*Solanum melongena*  
Koch, K.L., 1933  
*Solanum nigrum*  
Easton, G.D., R.H. Larson and R.W. Hougas, 1958

## VIRUS

## V. POTATO Y (cont.)

- Solanum nodiflorum*  
Roque, Arturo and Jose Adsuar, 1941  
Smith, Kenneth M. and R. W. G. Dennis, 1940
- Solanum tuberosum*  
Hamilton, Marion A., 1932  
Roque, Arturo and Jose Adsuar, 1941
- Vicia faba*  
Bald, J. G. and D. O. Norris, 1945
- Vigna sinensis*  
Alvarez-Garcia, L. A. and Jose Adsuar, 1943  
Bald, J. G. and D. O. Norris, 1945
- Zinnia elegans*  
Bald, J. G. and D. O. Norris, 1945

## V. PRIMULA MOSAIC

- Anagallis arvensis*  
Tompkins, C. M. and John T. Middleton, 1941
- Anemone coronaria*  
Tompkins, C. M. and John T. Middleton, 1941
- Antirrhinum majus*  
Tompkins, C. M. and John T. Middleton, 1941
- Apium graveolens*  
Tompkins, C. M. and John T. Middleton, 1941
- Apium graveolens* var. *dulce*  
Severin, Henry H. P. and C. M. Tompkins, 1950
- Begonia semperflorens*  
Tompkins, C. M. and John T. Middleton, 1941
- Bellis perennis*  
Tompkins, C. M. and John T. Middleton, 1941
- Beta vulgaris*  
Severin, Henry H. P. and C. M. Tompkins, 1950
- Brassica oleracea* var. *botrytis*  
Tompkins, C. M. and John T. Middleton, 1941
- Brassica oleracea* var. *capitata*  
Tompkins, C. M. and John T. Middleton, 1941
- Brassica pekinensis*  
Tompkins, C. M. and John T. Middleton, 1941
- Brassica rapa*  
Tompkins, C. M. and John T. Middleton, 1941
- Callistephus chinensis*  
Tompkins, C. M. and John T. Middleton, 1941
- Campanula medium*  
Tompkins, C. M. and John T. Middleton, 1941
- Capsicum frutescens* var. *grossum*  
Tompkins, C. M. and John T. Middleton, 1941
- Cucumis sativus*  
Severin, Henry H. P. and C. M. Tompkins, 1950  
Tompkins, C. M. and John T. Middleton, 1941
- Cucurbita pepo*  
Severin, Henry H. P. and C. M. Tompkins, 1950
- Cucurbita pepo* var. *melopepo*  
Tompkins, C. M. and John T. Middleton, 1941
- Cyclamen persicum* (*Cyclamen indicum*)  
Tompkins, C. M. and John T. Middleton, 1941
- Datura stramonium*  
Tompkins, C. M. and John T. Middleton, 1941
- Delphinium cultorum*  
Tompkins, C. M. and John T. Middleton, 1941
- Dianthus barbatus*  
Tompkins, C. M. and John T. Middleton, 1941
- Gerbera jamesonii*  
Tompkins, C. M. and John T. Middleton, 1941
- Geum chiloense*  
Tompkins, C. M. and John T. Middleton, 1941
- Lactuca sativa* var. *longifolia*  
Tompkins, C. M. and John T. Middleton, 1941
- Lobelia hybrida*  
Tompkins, C. M. and John T. Middleton, 1941
- Lycopersicon esculentum*  
Severin, Henry H. P. and C. M. Tompkins, 1950
- Lycopersicon esculentum* var. *vulgare*  
Tompkins, C. M. and John T. Middleton, 1941
- Matthiola incana* var. *annua*  
Tompkins, C. M. and John T. Middleton, 1941
- Myosotis alpestris*  
Tompkins, C. M. and John T. Middleton, 1941
- Nicotiana glutinosa*  
Severin, Henry H. P. and C. M. Tompkins, 1950  
Tompkins, C. M. and John T. Middleton, 1941
- Nicotiana tabacum*  
Severin, Henry H. P. and C. M. Tompkins, 1950  
Tompkins, C. M. and John T. Middleton, 1941

## VIRUS

## V. PRIMULA MOSAIC (cont.)

- Papaver orientale*  
Tompkins, C. M. and John T. Middleton, 1941
- Penstemon barbatus*  
Tompkins, C. M. and John T. Middleton, 1941
- Pisum sativum*  
Tompkins, C. M. and John T. Middleton, 1941
- Primula auricula*  
Tompkins, C. M. and John T. Middleton, 1941
- Primula veris*  
Tompkins, C. M. and John T. Middleton, 1941
- Ranunculus asiaticus*  
Tompkins, C. M. and John T. Middleton, 1941
- Raphanus sativus*  
Tompkins, C. M. and John T. Middleton, 1941
- Reseda odorata*  
Tompkins, C. M. and John T. Middleton, 1941
- Ricinus communis*  
Tompkins, C. M. and John T. Middleton, 1941
- Senecio cruentus*  
Tompkins, C. M. and John T. Middleton, 1941
- Solanum tuberosum*  
Tompkins, C. M. and John T. Middleton, 1941
- Spinacia oleracea*  
Tompkins, C. M. and John T. Middleton, 1941
- Tagetes patula*  
Tompkins, C. M. and John T. Middleton, 1941
- Tropaeolum majus*  
Tompkins, C. M. and John T. Middleton, 1941
- Verbena hybrida*  
Tompkins, C. M. and John T. Middleton, 1941
- Vicia faba*  
Tompkins, C. M. and John T. Middleton, 1941
- Vigna sinensis*  
Tompkins, C. M. and John T. Middleton, 1941
- Viola tricolor*  
Tompkins, C. M. and John T. Middleton, 1941
- Zea mays*  
Tompkins, C. M. and John T. Middleton, 1941

## V. PRUNE DWARF Thomas and Hildebrand 1936

- Prunus avium*  
Hildebrand, E. M., 1942
- Prunus cerasus*  
Hildebrand, E. M., 1942  
Thomas, H. E. and E. M. Hildebrand, 1936
- Prunus domestica*  
Moore, J. Duain and H. R. Cameron, 1956
- Prunus persica* (*Amygdalus persica*)  
Thomas, H. E. and E. M. Hildebrand, 1936
- Prunus salicina*  
Cochran, L. C., 1956

## V. PRUNUS A \*

- Benincasa hispida*  
Fulton, Robert W., 1957
- Boltonia latisquama*  
Fulton, Robert W., 1957
- Browallia elata*  
Fulton, Robert W., 1957
- Callistephus chinensis*  
Fulton, Robert W., 1957
- Cassia marilandica*  
Fulton, Robert W., 1957
- Chenopodium album*  
Fulton, Robert W., 1957
- Coleus blumei*  
Fulton, Robert W., 1957
- Crotalaria capensis*  
Fulton, Robert W., 1957
- Crotalaria mucronata*  
Fulton, Robert W., 1957
- Crotalaria spectabilis*  
Fulton, Robert W., 1957
- Datura stramonium*  
Fulton, Robert W., 1957
- Gleditsia triacanthos*  
Fulton, Robert W., 1957
- Lagenaria siceraria* (*Lagenaria leucantha*)  
Fulton, Robert W., 1957
- Luffa aegyptiaca* (*Luffa cylindrica*)  
Fulton, Robert W., 1957

## VIRUS

## V. PRUNUS A \* (cont.)

- Melilotus officinalis  
Fulton, Robert W., 1957
- Melothria guadalupensis  
Fulton, Robert W., 1957
- Momordica charantia  
Fulton, Robert W., 1957
- Nepeta cataria  
Fulton, Robert W., 1957
- Nicotiana spp.  
Fulton, Robert W., 1957
- Phlox drummondii  
Fulton, Robert W., 1957
- Physalis aequata  
Fulton, Robert W., 1957
- Plantago virginica  
Fulton, Robert W., 1957
- Prunus persica (Amygdalus persica)  
Fulton, Robert W., 1957
- Rheum rhaponticum  
Fulton, Robert W., 1957
- Salpiglossis sinuata  
Fulton, Robert W., 1957
- Solidago spp.  
Fulton, Robert W., 1957
- Thunbergia alata  
Fulton, Robert W., 1957
- Tithonia speciosa  
Fulton, Robert W., 1957
- Verbascum thapsus  
Fulton, Robert W., 1957
- Zinnia elegans  
Fulton, Robert W., 1957

## V. PRUNUS B \*

- Asclepias syriaca  
Fulton, Robert W., 1957
- Cassia marilandica  
Fulton, Robert W., 1957
- Cassia tora  
Fulton, Robert W., 1957
- Chenopodium album  
Fulton, Robert W., 1957
- Crotalaria intermedia  
Fulton, Robert W., 1957
- Crotalaria mucronata  
Fulton, Robert W., 1957
- Cucumis prophetarum  
Fulton, Robert W., 1957
- Cyamopsis tetragonoloba  
Fulton, Robert W., 1957
- Gomphrena globosa  
Fulton, Robert W., 1957
- Hedysarum coronarium  
Fulton, Robert W., 1957
- Indigofera hirsuta  
Fulton, Robert W., 1957
- Luffa aegyptiaca (Luffa cylindrica)  
Fulton, Robert W., 1957
- Pisum sativum  
Fulton, Robert W., 1957
- Potentilla palustris  
Fulton, Robert W., 1957
- Prunus persica (Amygdalus persica)  
Fulton, Robert W., 1957
- Rheum rhaponticum  
Fulton, Robert W., 1957

## V. PRUNUS E \*

- Asclepias syriaca  
Fulton, Robert W., 1957
- Astragalus rubyi  
Fulton, Robert W., 1957
- Benincasa hispida  
Fulton, Robert W., 1957
- Boltonia latisquama  
Fulton, Robert W., 1957
- Callistephus chinensis  
Fulton, Robert W., 1957
- Chenopodium album  
Fulton, Robert W., 1957
- Citrullus colocynthis  
Fulton, Robert W., 1957

## VIRUS

## V. PRUNUS E \* (cont.)

- Citrullus vulgaris  
Fulton, Robert W., 1957
- Citrullus vulgaris var. citroides \*  
Fulton, Robert W., 1957
- Crotalaria capensis  
Fulton, Robert W., 1957
- Crotalaria spectabilis  
Fulton, Robert W., 1957
- Cynoglossum amabile  
Fulton, Robert W., 1957
- Gleditsia triacanthos  
Fulton, Robert W., 1957
- Gomphrena globosa  
Fulton, Robert W., 1957
- Hedysarum coronarium  
Fulton, Robert W., 1957
- Lactuca sativa  
Fulton, Robert W., 1957
- Lagenaria siceraria (Lagenaria leucantha)  
Fulton, Robert W., 1957
- Luffa aegyptiaca (Luffa cylindrica)  
Fulton, Robert W., 1957
- Melilotus alba  
Fulton, Robert W., 1957
- Melilotus indica  
Fulton, Robert W., 1957
- Melilotus officinalis  
Fulton, Robert W., 1957
- Momordica charantia  
Fulton, Robert W., 1957
- Nepeta cataria  
Fulton, Robert W., 1957
- Nicotiana spp.  
Fulton, Robert W., 1957
- Nicotiana tabacum  
Fulton, Robert W., 1957
- Phlox drummondii  
Fulton, Robert W., 1957
- Pisum sativum  
Fulton, Robert W., 1957
- Plantago virginica  
Fulton, Robert W., 1957
- Potentilla palustris  
Fulton, Robert W., 1957
- Prunus persica (Amygdalus persica)  
Fulton, Robert W., 1957
- Rheum rhaponticum  
Fulton, Robert W., 1957
- Solidago spp.  
Fulton, Robert W., 1957
- Thunbergia alata  
Fulton, Robert W., 1957
- Tithonia speciosa  
Fulton, Robert W., 1957
- Trifolium repens  
Fulton, Robert W., 1957
- Verbascum thapsus  
Fulton, Robert W., 1957
- Vinca rosea  
Fulton, Robert W., 1957
- Zinnia elegans  
Fulton, Robert W., 1957

## V. PRUNUS G \*

- Astragalus rubyi  
Fulton, Robert W., 1957
- Boltonia latisquama  
Fulton, Robert W., 1957
- Cassia marilandica  
Fulton, Robert W., 1957
- Chenopodium album  
Fulton, Robert W., 1957
- Citrullus colocynthis  
Fulton, Robert W., 1957
- Citrullus vulgaris  
Fulton, Robert W., 1957
- Citrullus vulgaris var. citroides \*  
Fulton, Robert W., 1957
- Coleus blumei  
Fulton, Robert W., 1957
- Crotalaria spectabilis  
Fulton, Robert W., 1957

## VIRUS

## V. PRUNUS G\* (cont.)

- Cucurbita pepo  
Fulton, Robert W., 1957
- Cynoglossum amabile  
Fulton, Robert W., 1957
- Datura stramonium  
Fulton, Robert W., 1957
- Gleditsia triacanthos  
Fulton, Robert W., 1957
- Gossypium hirsutum  
Fulton, Robert W., 1957
- Lactuca sativa  
Fulton, Robert W., 1957
- Lagenaria siceraria (Lagenaria leucantha)  
Fulton, Robert W., 1957
- Luffa aegyptiaca (Luffa cylindrica)  
Fulton, Robert W., 1957
- Mellilotus officinalis  
Fulton, Robert W., 1957
- Melothria pendula  
Fulton, Robert W., 1957
- Momordica charantia  
Fulton, Robert W., 1957
- Nepeta cataria  
Fulton, Robert W., 1957
- Nicotiana benthamiana  
Fulton, Robert W., 1957
- Nicotiana spp.  
Fulton, Robert W., 1957
- Phlox drummondii  
Fulton, Robert W., 1957
- Plantago virginica  
Fulton, Robert W., 1957
- Prunus persica (Amygdalus persica)  
Fulton, Robert W., 1957
- Salpiglossis sinuata  
Fulton, Robert W., 1957
- Sesbania sesban  
Fulton, Robert W., 1957
- Solidago spp.  
Fulton, Robert W., 1957
- Tithonia speciosa  
Fulton, Robert W., 1957
- Trifolium repens  
Fulton, Robert W., 1957

## V. RADISH MOSAIC Tompkins 1939

- Antirrhinum majus  
Tompkins, C.M., 1939
- Apium graveolens  
Tompkins, C.M., 1939
- Begonia semperflorens  
Tompkins, C.M., 1939
- Bellis perennis  
Tompkins, C.M., 1939
- Brassica campestris var. napobrassica  
Tompkins, C.M., 1939
- Brassica integrifolia var. chevalieri \*  
Tompkins, C.M., 1939
- Brassica napus  
Tompkins, C.M., 1939
- Callistephus chinensis  
Tompkins, C.M., 1939
- Campanula medium  
Tompkins, C.M., 1939
- Chrysanthemum coronarium  
Tompkins, C.M., 1939
- Chrysanthemum maximum  
Tompkins, C.M., 1939
- Clarkia elegans  
Tompkins, C.M., 1939
- Cucumis sativus  
Tompkins, C.M., 1939
- Datura stramonium  
Tompkins, C.M., 1939
- Dianthus barbatus  
Tompkins, C.M., 1939
- Dimorphotheca aurantiaca  
Tompkins, C.M., 1939
- Gaillardia pulchella var. picta  
Tompkins, C.M., 1939
- Geum chiloense  
Tompkins, C.M., 1939

## VIRUS

## V. RADISH MOSAIC (cont.)

- Godetia grandiflora  
Tompkins, C.M., 1939
- Gypsophila paniculata  
Tompkins, C.M., 1939
- Heliotropium peruvianum  
Tompkins, C.M., 1939
- Hesperis matronalis  
Tompkins, C.M., 1939
- Lactuca sativa var. capitata  
Tompkins, C.M., 1939
- Lobelia hybrida  
Tompkins, C.M., 1939
- Lunaria annua  
Tompkins, C.M., 1939
- Lycopersicon esculentum var. vulgare  
Tompkins, C.M., 1939
- Lycopersicon pimpinellifolium  
Tompkins, C.M., 1939
- Matthiola incana var. annua  
Tompkins, C.M., 1939
- Myosotis alpestris  
Tompkins, C.M., 1939
- Papaver nudicaule  
Tompkins, C.M., 1939
- Papaver orientale  
Tompkins, C.M., 1939
- Pelargonium zonale  
Tompkins, C.M., 1939
- Penstemon barbatus  
Tompkins, C.M., 1939
- Petunia hybrida  
Tompkins, C.M., 1939
- Pisum sativum  
Tompkins, C.M., 1939
- Reseda odorata  
Tompkins, C.M., 1939
- Rheum rhaponticum  
Tompkins, C.M., 1939
- Ricinus communis  
Tompkins, C.M., 1939
- Salvia farinacea  
Tompkins, C.M., 1939
- Scabiosa atropurpurea  
Tompkins, C.M., 1939
- Senecio cruentus  
Tompkins, C.M., 1939
- Solanum aviculare  
Tompkins, C.M., 1939
- Solanum tuberosum  
Tompkins, C.M., 1939
- Tagetes erecta  
Tompkins, C.M., 1939
- Tagetes patula  
Tompkins, C.M., 1939
- Taraxacum officinale  
Tompkins, C.M., 1939
- Tropaeolum majus  
Tompkins, C.M., 1939
- Verbena hybrida  
Tompkins, C.M., 1939
- Vicia faba  
Tompkins, C.M., 1939
- Viola tricolor  
Tompkins, C.M., 1939
- Zea mays  
Tompkins, C.M., 1939

## V. RAPE SAVOY Holmes 1939

- Brassica oleracea var. botrytis  
Ling, Lee and Juhwa Y. Yang, 1940
- Brassica oleracea var. capitata  
Ling, Lee and Juhwa Y. Yang, 1940
- Brassica oleracea var. caulorapa  
Ling, Lee and Juhwa Y. Yang, 1940
- Raphanus sativus  
Ling, Lee and Juhwa Y. Yang, 1940

## V. RASPBERRY ALPHA LEAF CURL

- Rubus occidentalis  
Bennett, C.W., 1930  
Rankin, W. Howard, 1931



- VIRUS
- V. RASPBERRY NECROTIC FERN LEAF MOSAIC  
*Nicotiana tabacum* Chamberlain 1941  
 Chamberlain, G. C., 1941
- V. RASPBERRY STREAK Zeller 1923  
*Cuscuta* spp.  
 Horn, Norman L., 1948  
*Cuscuta subinclusa*  
 Horn, N. L. and M. W. Woods, 1949
- V. RED CLOVER MOSAIC \*  
*Cajanus indicus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Canavalia gladiata*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Dolichos lablab*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Glycine max*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Lathyrus odoratus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Lupinus albus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Medicago sativa*  
 Elliott, J. A., 1921  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Melilotus alba*  
 Dickson, B. T., 1922  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Melilotus officinalis*  
 Dickson, B. T., 1922  
*Mucuna deeringianum*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus acutifolius* var. *latifolius*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus angularis*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus calcaratus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus lunatus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus lunatus* f. *macrocarpus*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus mungo*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Phaseolus vulgaris*  
 Zaumeyer, W. J., 1933  
 Zaumeyer, W. J. and B. L. Wade, 1933, 1935  
*Trifolium repens*  
 Elliott, J. A., 1921  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Vigna sesquipedalis*  
 Zaumeyer, W. J. and B. L. Wade, 1935  
*Vigna sinensis*  
 Zaumeyer, W. J. and B. L. Wade, 1935
- V. RED CLOVER VEIN MOSAIC Osborn 1937  
*Cucumis sativus*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Roberts, D. A., 1957  
*Datura stramonium*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Glycine max*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Lycopersicon esculentum*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Osborn, H. T., 1937  
*Medicago orbicularis*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Medicago sativa*  
 Graves, Clinton H., Jr. and D. J. Hagedorn, 1956  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Osborn, H. T., 1937  
*Nicotiana glutinosa*  
 Osborn, H. T., 1937  
*Nicotiana langsdorffii*  
 Osborn, H. T., 1937  
*Nicotiana rustica*  
 Osborn, H. T., 1937
- VIRUS
- V. RED CLOVER VEIN MOSAIC (cont.)  
*Nicotiana sylvestris*  
 Osborn, H. T., 1937  
*Nicotiana tabacum*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Osborn, H. T., 1937  
 Roberts, D. A., 1957  
*Phaseolus aureus*  
 Osborn, H. T., 1937  
*Phaseolus vulgaris*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Osborn, H. T., 1937  
 Roberts, D. A., 1957  
*Solanum tuberosum*  
 Hagedorn, D. J. and J. C. Walker, 1949  
 Osborn, H. T., 1937  
*Trifolium repens*  
 Graves, Clinton H., Jr. and D. J. Hagedorn, 1956  
 Hagedorn, D. J. and J. C. Walker, 1949  
*Vicia angustifolia*  
 Graves, Clinton H., Jr. and D. J. Hagedorn, 1956  
*Vicia faba* var. *major* \*  
 Hagedorn, D. J. and J. C. Walker, 1949  
*Vicia faba* var. *minor* \*  
 Hagedorn, D. J. and J. C. Walker, 1949  
*Vicia villosa*  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
*Vigna sinensis*  
 Hagedorn, D. J. and E. W. Hanson, 1951  
 Hagedorn, D. J. and J. C. Walker, 1949, 1954  
 Roberts, D. A., 1957
- V. RED CURRANT RING SPOT Klesser 1951  
*Beta vulgaris*  
 Klesser, P. J., 1951  
*Brassica oleracea* var. *capitata*  
 Klesser, P. J., 1951  
*Brassica sinensis* \*  
 Klesser, P. J., 1951  
*Calendula officinalis*  
 Klesser, P. J., 1951  
*Cucurbitis pepo*  
 Klesser, P. J., 1951  
*Dahlia variabilis*  
 Klesser, P. J., 1951  
*Hyoscyamus niger*  
 Klesser, P. J., 1951  
*Lycium barbarum*  
 Klesser, P. J., 1951  
*Medicago lupulina*  
 Klesser, P. J., 1951  
*Melilotus officinalis*  
 Klesser, P. J., 1951  
*Mimulus luteus*  
 Klesser, P. J., 1951  
*Phaseolus vulgaris*  
 Klesser, P. J., 1951  
*Phlox drummondii*  
 Klesser, P. J., 1951  
*Pisum sativum*  
 Klesser, P. J., 1951  
*Silybum marianum*  
 Klesser, P. J., 1951  
*Solanum capsicastrum*  
 Klesser, P. J., 1951  
*Solanum capsicum* \*  
 Klesser, P. J., 1951  
*Tropaeolum majus*  
 Klesser, P. J., 1951  
*Vicia faba*  
 Klesser, P. J., 1951
- V. RICE AND CORN LEAF-GALL \*  
*Chloris barbata*  
 Agati, Julian A. and Carlos A. Calica, 1950  
*Digitaria macrobachne*  
 Agati, Julian A. and Carlos A. Calica, 1950  
*Digitaria sanguinalis*  
 Agati, Julian A. and Carlos A. Calica, 1950  
*Echinochloa* spp.  
 Agati, Julian A. and Carlos A. Calica, 1950

## VIRUS

## V. RICE AND CORN LEAF-GALL \* (cont.)

- Eragrostis amabilis*  
Agati, Julian A. and Carlos A. Calica, 1950  
*Panicum colonum*  
Agati, Julian A. and Carlos A. Calica, 1950  
*Triticum vulgare*  
Agati, Julian A. and Carlos A. Calica, 1950

## V. ROSE MOSAIC Weiss and McWhorter 1928

- Cuscuta campestris*  
Fulton, Robert W., 1952  
*Cuscuta gronovii*  
Fulton, Robert W., 1952  
*Cuscuta subinclusa*  
Fulton, Robert W., 1952  
(*Rosa chinensis* x *Rosa moschata*) x *Rosa foetida*  
White, R.P., 1930  
*Rosa odorata*  
White, R.P., 1930  
*Rosa polyantha*  
White, R.P., 1930

## V. ROSE STREAK Brierley 1935

- Rosa chinensis* var. *manetti*  
Brierley, Philip and Floyd F. Smith, 1940  
*Rosa hugonis*  
Brierley, Philip and Floyd F. Smith, 1940

## V. SOIL-BORNE OAT MOSAIC McKinney 1946, 1953

- Zea mays*  
McKinney, H.H., 1946

## V. SOIL-BORNE WHEAT MOSAIC McKinney 1925, 1953

- Avena sativa*  
McKinney, H.H., 1930  
*Hordeum vulgare*  
McKinney, H.H., 1947

## V. (SOUR)CHERRY YELLOWS Keitt and Clayton 1939,

- Prunus avium* 1943  
Keitt, G.W. and C.N. Clayton, 1943  
*Prunus cistena* \*  
Young, H.C., Jr., 1951  
*Prunus domestica*  
Moore, J. Duain and H.R. Cameron, 1956  
Moore, J. Duain and G.W. Keitt, 1944

## V. SOYBEAN MOSAIC Gardner and Kendrick 1921

- Beta vulgaris*  
Conover, Robert A., 1948  
*Crotalaria spectabilis*  
Conover, Robert A., 1948  
*Lespedeza striata*  
Conover, Robert A., 1948  
*Lupinus angustifolius*  
Conover, Robert A., 1948  
*Lupinus luteus*  
Conover, Robert A., 1948  
*Lycopersicon esculentum*  
Conover, Robert A., 1948  
*Medicago sativa*  
Conover, Robert A., 1948  
Pierce, W.H., 1935  
*Melilotus alba*  
Conover, Robert A., 1948  
*Melilotus officinalis*  
Conover, Robert A., 1948  
Pierce, W.H., 1935  
*Nicotiana tabacum*  
Conover, Robert A., 1948  
Pierce, W.H., 1935  
*Petunia hybrida*  
Pierce, W.H., 1935  
*Phaseolus aureus*  
Conover, Robert A., 1948  
*Phaseolus coccineus*  
Conover, Robert A., 1948  
*Phaseolus lunatus*  
Conover, Robert A., 1948  
*Phaseolus mungo*  
Conover, Robert A., 1948  
*Phaseolus vulgaris*  
Conover, Robert A., 1948

## VIRUS

## V. SOYBEAN MOSAIC (cont.)

- Phaseolus vulgaris*  
Harrison, Arthur L., 1935  
Kendrick, James B. and Max W. Gardner, 1924  
Pierce, W.H., 1935  
*Pisum sativum*  
Pierce, W.H., 1935  
*Pisum sativum* var. *arvense*  
Kendrick, James B. and Max W. Gardner, 1924  
*Pisum sativum* var. *saccharatum*  
Pierce, W.H., 1935  
*Trifolium incarnatum*  
Conover, Robert A., 1948  
*Trifolium pratense*  
Kendrick, James B. and Max W. Gardner, 1924  
Pierce, W.H., 1935  
*Trifolium repens*  
Pierce, W.H., 1935  
*Vicia faba*  
Conover, Robert A., 1948  
*Vicia faba* var. *minor* \*  
Pierce, W.H., 1935  
*Vigna sesquipedalis*  
Conover, Robert A., 1948  
*Vigna sinensis*  
Conover, Robert A., 1948  
Kendrick, James B. and Max W. Gardner, 1924

## V. SPINACH YELLOW DWARF Severin and Little 1947

- Apium graveolens* var. *dulce*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Beta vulgaris*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Beta vulgaris* var. *cicla*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Brassica campestris*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Brassica oleracea* var. *capitata*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Callistephus chinensis*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Campanula medium*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Capsicum frutescens* (*Capsicum annuum*)  
Severin, Henry H.P. and Donald H. Little, 1947  
*Citrullus vulgaris*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Cucumis sativus*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Cucurbita pepo*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Datura stramonium*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Foeniculum vulgare* var. *dulce*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Gossypium hirsutum*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Lactuca sativa*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Lupinus hartwegii*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Lycopersicon esculentum*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Matthiola incana* var. *annua*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Mirabilis jalapa*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Nicotiana glauca* var. *grandiflora*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Nicotiana glutinosa*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Nicotiana tabacum*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Pelargonium zonale*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Petunia hybrida*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Primula veris*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Solanum tuberosum*  
Severin, Henry H.P. and Donald H. Little, 1947  
*Tetragonia expansa*  
Severin, Henry H.P. and Donald H. Little, 1947

- VIRUS  
V. SQUASH MOSAIC Middleton 1949
- Alyssum saxatile*  
Freitag, J.H., 1956
- Amaranthus retroflexus*  
Freitag, J.H., 1956
- Antirrhinum majus*  
Freitag, J.H., 1956
- Apium graveolens* var. *dulce*  
Freitag, J.H., 1956
- Aquilegia* spp.  
Freitag, J.H., 1956
- Arachis hypogaea*  
Freitag, J.H., 1956
- Asclepias tuberosa*  
Freitag, J.H., 1956
- Atriplex bracteosa*  
Freitag, J.H., 1956
- Atriplex expansa*  
Freitag, J.H., 1956
- Beta vulgaris*  
Freitag, J.H., 1956
- Brassica oleracea* var. *botrytis*  
Freitag, J.H., 1956
- Brassica oleracea* var. *capitata*  
Freitag, J.H., 1956
- Brassica rapa*  
Freitag, J.H., 1956
- Calendula officinalis*  
Freitag, J.H., 1956
- Callistephus chinensis*  
Freitag, J.H., 1956
- Campanula carpatica*  
Freitag, J.H., 1956
- Campanula medium*  
Freitag, J.H., 1956
- Capsicum frutescens* var. *groszum*  
Freitag, J.H., 1956
- Carum carvi*  
Freitag, J.H., 1956
- Celosia argentea*  
Freitag, J.H., 1956
- Cheiranthus cheiri*  
Freitag, J.H., 1956
- Chrysanthemum parthenium*  
Freitag, J.H., 1956
- Citrullus vulgaris*  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Cosmos bipinnatus*  
Freitag, J.H., 1956
- Cynoglossum amabile*  
Freitag, J.H., 1956
- Datura stramonium*  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Daucus carota* var. *sativa*  
Freitag, J.H., 1956
- Delphinium* spp.  
Freitag, J.H., 1956
- Dianthus caryophyllus*  
Freitag, J.H., 1956
- Digitalis purpurea*  
Freitag, J.H., 1956
- Dimorphotheca sinuata*  
Freitag, J.H., 1956
- Eschscholtzia californica*  
Freitag, J.H., 1956
- Euphorbia marginata*  
Freitag, J.H., 1956
- Glycine max*  
Freitag, J.H., 1956
- Gossypium hirsutum*  
Freitag, J.H., 1956
- Hesperis matronalis*  
Freitag, J.H., 1956
- Hibiscus esculentus*  
Freitag, J.H., 1956
- Iberis umbellata*  
Freitag, J.H., 1956
- Ipomoea nil*  
Freitag, J.H., 1956
- Kochia scoparia*  
Freitag, J.H., 1956
- VIRUS  
V. SQUASH MOSAIC (cont.)
- Lactuca sativa*  
Freitag, J.H., 1956
- Lactuca sativa* var. *longifolia*  
Freitag, J.H., 1956
- Limonium sinuatum*  
Freitag, J.H., 1956
- Lupinus hartwegii*  
Freitag, J.H., 1956
- Lupinus polyphyllus*  
Freitag, J.H., 1956
- Lycopersicon esculentum*  
Freitag, J.H., 1956
- Matthiola incana* var. *annua*  
Freitag, J.H., 1956
- Medicago hispida*  
Freitag, J.H., 1956
- Medicago sativa*  
Freitag, J.H., 1956
- Melilotus alba*  
Freitag, J.H., 1956
- Melilotus indica*  
Freitag, J.H., 1956
- Melilotus officinalis*  
Freitag, J.H., 1956
- Mirabilis jalapa*  
Freitag, J.H., 1956
- Nasturtium officinale*  
Freitag, J.H., 1956
- Nemophila menziessii*  
Freitag, J.H., 1956
- Nicotiana alata* var. *grandiflora*  
Freitag, J.H., 1956
- Nicotiana glauca*  
Freitag, J.H., 1956
- Nicotiana glutinosa*  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Nicotiana langsdorffii*  
Freitag, J.H., 1956
- Nicotiana rustica*  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Nicotiana rustica* var. *humulus* \*  
Freitag, J.H., 1956
- Nicotiana tabacum*  
Freitag, J.H., 1956  
Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Pastinaca sativa*  
Freitag, J.H., 1956
- Pelargonium zonale*  
Freitag, J.H., 1956
- Petroselinum crispum*  
Freitag, J.H., 1956
- Petunia hybrida*  
Freitag, J.H., 1956
- Phaseolus limensis* var. *limenanus* \*  
Freitag, J.H., 1956
- Phaseolus vulgaris*  
Freitag, J.H., 1956
- Phlox drummondii*  
Freitag, J.H., 1956
- Pisum sativum*  
Freitag, J.H., 1956
- Primula veris*  
Freitag, J.H., 1956
- Raphanus sativus*  
Freitag, J.H., 1956
- Reseda odorata*  
Freitag, J.H., 1956
- Ricinus communis*  
Freitag, J.H., 1956
- Rumex acetosa*  
Freitag, J.H., 1956
- Salpiglossis sinuata*  
Freitag, J.H., 1956
- Solanum tuberosum*  
Freitag, J.H., 1956
- Spinacia oleracea*  
Freitag, J.H., 1956
- Tagetes erecta*  
Freitag, J.H., 1956
- Tagetes patula*  
Freitag, J.H., 1956

## VIRUS

## V. SQUASH MOSAIC (cont.)

- Trachymene caerulea*  
Freitag, J.H., 1956
- Trifolium incarnatum*  
Freitag, J.H., 1956
- Trifolium pratense*  
Freitag, J.H., 1956
- Trifolium repens*  
Freitag, J.H., 1956
- Trifolium repens* var. *latum* \*  
Freitag, J.H., 1956
- Tropaeolum majus*  
Freitag, J.H., 1956
- Vicia faba*  
Freitag, J.H., 1956
- Vigna sesquipedalis*  
Freitag, J.H., 1956
- Vigna sinensis*  
Freitag, J.H., 1956
- Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- Vinca rosea*  
Freitag, J.H., 1956
- Zea mays*  
Freitag, J.H., 1956
- Zinnia elegans*  
Freitag, J.H., 1956
- Lindberg, G.D., D.H. Hall and J.C. Walker, 1956

## V. SQUASH MOSAIC (SOUTHERN) Anderson 1951

- Apium graveolens* var. *dulce*  
Anderson, C.W., 1951
- Beta vulgaris*  
Anderson, C.W., 1951
- Capsicum frutescens* (*Capsicum annuum*)  
Anderson, C.W., 1951
- Lycopersicon esculentum*  
Anderson, C.W., 1951
- Nicotiana glutinosa*  
Anderson, C.W., 1951
- Nicotiana tabacum*  
Anderson, C.W., 1951
- Phaseolus vulgaris*  
Anderson, C.W., 1951
- Vicia faba*  
Anderson, C.W., 1951
- Vigna sinensis*  
Anderson, C.W., 1951
- Zinnia elegans*  
Anderson, C.W., 1951

## V. STONE FRUIT \*

- Abutilon theophrasti*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Amaranthus graecizans*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Anthemis cotula*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Arctium minus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Asclepias syriaca*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Brassica kaber* (*Brassica arvensis*)  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Capsella bursa-pastoris*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Centaurea* spp.  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cerastium vulgatum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Chelone glabra*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Chenopodium album*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cichorium intybus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cirsium arvense*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Citrullus vulgaris*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cucumis melo*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cucurbita maxima*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954

## VIRUS

## V. STONE FRUIT \* (cont.)

- Cucurbita pepo*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Cuscuta campestris*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Datura stramonium*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Echinocystis lobata* (*Micrampelis lobata*)  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Erysimum cheiranthoides*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Euphorbia esula*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Fagopyrum esculentum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Gossypium hirsutum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Hesperis matronalis*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Hypericum perforatum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Iodanthus pinnatifidus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Leonurus cardiaca*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Lychnis alba*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Lycium halimifolium*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Lycopersicon esculentum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Malva rotundifolia*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Melilotus alba*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Melilotus officinalis*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Mollugo verticillata*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Nepeta cataria*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Nicandra physalodes*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Nicotiana glutinosa*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Nicotiana rustica*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Nicotiana tabacum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Phaseolus vulgaris*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Physalis pubescens*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Pisum sativum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Portulaca oleracea*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Potentilla monspeliensis*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Rumex britannica*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Rumex crispus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Sisymbrium officinale*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Solanum nigrum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Sonchus oleraceus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Spinacia oleracea*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Taraxacum officinale*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Thlaspi arvense*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Trifolium incarnatum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Verbascum thapsus*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Vigna sinensis*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- Xanthium echinatum*  
Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954

## VIRUS

- V. STONE FRUIT \* (cont.)  
*Zinnia elegans*  
 Boyle, J.S., J. Duain Moore and G.W. Keitt, 1954
- V. STONE FRUIT NECROTIC RING SPOT \*  
*Prunus domestica*  
 Moore, J. Duain and H.R. Cameron, 1956
- V. STRAWBERRY CRINKLE Zeller and Vaughan 1932  
*Cuscuta subinclusa*  
 Smith, Harlan E. and J. Duain Moore, 1952  
*Rosa* spp.  
 Brierley, Philip and Floyd F. Smith, 1940
- V. STRAWBERRY GREEN PETAL Posnette 1953 ((May be a strain of V. Aster yellows Frazier and Posnette 1956))  
*Cuscuta campestris*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Cuscuta europaea*  
 Frazier, N.W. and A.F. Posnette, 1957  
*Cuscuta subinclusa*  
 Frazier, N.W. and A.F. Posnette, 1957
- V. STRAWBERRY MOTTLE Prentice 1952  
*Cuscuta campestris*  
 Demaree, J.B. and C.P. Marcus, 1951  
*Cuscuta gronovii*  
 Smith, Harlan E. and J. Duain Moore, 1952  
*Cuscuta subinclusa*  
 Smith, Harlan E. and J. Duain Moore, 1952
- V. STRAWBERRY, TYPE 2 \*  
*Cuscuta subinclusa*  
 Smith, Harlan E. and J. Duain Moore, 1952
- V. SUGARCANE MOSAIC Brandes 1920  
*Agrostis palustris*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Andropogon elliottii*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Andropogon scoparius*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Andropogon virginicus*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Avena sativa*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Coix lachryma-jobi*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Eleusine coracana*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Eriochloa subglabra*  
 Chardon, C.E. and R.A. Veve, 1923  
*Euchlaena mexicana*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Holcus halepensis*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Hordeum vulgare*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Leptochloa filiformis*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Miscanthus sinensis* var. *variegatus*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Miscanthus sinensis* var. *zebrinus*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Oryza sativa*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Panicum barbinode*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Pennisetum purpureum*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Phleum pratense*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Phyllostachys pubescens* \*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Phyllostachys quilloi*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Poa pratensis*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Saccharum officinarum*  
 Storey, H.H., 1929  
*Secale cereale*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Setaria viridis*  
 Brandes, E.W. and Peter J. Klaphaak, 1923

## VIRUS

- V. SUGARCANE MOSAIC (cont.)  
*Sorghastrum nutans*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Tripsacum dactyloides*  
 Brandes, E.W. and Peter J. Klaphaak, 1923  
*Triticum aestivum*  
 Brandes, E.W. and Peter J. Klaphaak, 1923
- V. SUGARCANE STREAK Storey 1925  
*Digitaria horizontalis*  
 Storey, H.H. and A.P.D. McClean, 1930  
*Eleusine indica*  
 Storey, H.H. and A.P.D. McClean, 1930
- V. SWEET POTATO FEATHERY MOTTLE Doolittle and Harter 1945  
*Cucumis sativus*  
 Doolittle, S.P. and L.L. Harter, 1945  
 Webb, Raymon E., 1954  
*Datura stramonium*  
 Doolittle, S.P. and L.L. Harter, 1945  
*Datura stramonium* var. *tatula*  
 Webb, Raymon E., 1954  
*Ipomoea batata*  
 Doolittle, S.P. and L.L. Harter, 1945  
*Ipomoea cairica*  
 Webb, Raymon E., 1954  
*Ipomoea nil*  
 Webb, Raymon E., 1954  
*Ipomoea purpurea*  
 Doolittle, S.P. and L.L. Harter, 1945  
*Ipomoea rubra*  
 Webb, Raymon E., 1954  
*Ipomoea sinuata*  
 Webb, Raymon E., 1954  
*Ipomoea* spp.  
 Webb, Raymon E., 1954  
*Ipomoea tricolor*  
 Webb, Raymon E., 1954  
*Nicandra physalodes*  
 Webb, Raymon E., 1954  
*Nicotiana glutinosa*  
 Doolittle, S.P. and L.L. Harter, 1945  
 Webb, Raymon E., 1954  
*Nicotiana rustica*  
 Webb, Raymon E., 1954  
*Nicotiana sylvestris*  
 Webb, Raymon E., 1954  
*Nicotiana tabacum*  
 Doolittle, S.P. and L.L. Harter, 1945  
 Webb, Raymon E., 1954  
*Physalis floridana*  
 Webb, Raymon E., 1954  
*Quamoclit coccinea*  
 Webb, Raymon E., 1954  
*Quamoclit sloteri*  
 Webb, Raymon E., 1954  
*Vigna sinensis*  
 Webb, Raymon E., 1954
- V. SWEET POTATO MOSAIC Sheffield 1953  
*Amaryllis* spp.  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Brassica oleracea*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Capsicum frutescens* (*Capsicum annuum*)  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Cucumis sativus*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Cucurbita pepo*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Euphorbia pulcherrima*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Ipomoea purpurea*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Ipomoea* spp.  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Ipomoea tricolor*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Lycopersicon esculentum*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Nicotiana tabacum*  
 Borders, H.I. and T.J. Ratcliff, 1954  
*Phaseolus vulgaris*  
 Borders, H.I. and T.J. Ratcliff, 1954

## VIRUS

- V. TEASEL MOSAIC Stoner 1951  
*Apium graveolens*  
 Stoner, Warren N., 1951  
*Beta vulgaris*  
 Stoner, Warren N., 1951  
*Cucumis sativus*  
 Stoner, Warren N., 1951  
*Cucurbita pepo*  
 Stoner, Warren N., 1951  
*Nicotiana tabacum*  
 Stoner, Warren N., 1951
- V. TITHONIA ROTUNDIFOLIA MOSAIC \*  
*Nicotiana tabacum*  
 Cook, M. T., 1936
- V. TOBACCO BROAD RING SPOT J. Johnson and Fulton 1940  
*Beta vulgaris*  
 Johnson, James and Robert W. Fulton, 1942  
*Citrullus vulgaris*  
 Johnson, James and Robert W. Fulton, 1942  
*Medicago sativa*  
 Johnson, James and Robert W. Fulton, 1942  
*Melilotus alba*  
 Johnson, James and Robert W. Fulton, 1942
- V. TOBACCO COARSE ETCH E.M. Johnson 1930  
*Beta vulgaris*  
 Johnson, E.M., 1930  
*Brassica hirta* (*Brassica alba*)  
 Johnson, E.M., 1930  
*Brassica oleracea*  
 Johnson, E.M., 1930  
*Brassica rapa* var. *depressa* \*  
 Johnson, E.M., 1930  
*Capsicum frutescens* (*Capsicum annuum*)  
 Johnson, E.M., 1930  
*Cucumis sativus*  
 Johnson, E.M., 1930  
*Glycine max*  
 Johnson, E.M., 1930  
*Lycopersicon esculentum*  
 Johnson, E.M., 1930  
*Phaseolus vulgaris*  
 Johnson, E.M., 1930  
*Pisum sativum*  
 Johnson, E.M., 1930  
*Raphanus sativus*  
 Johnson, E.M., 1930  
*Solanum carolinense*  
 Johnson, E.M., 1930
- V. TOBACCO ETCH E.M. Johnson 1930  
*Acalypha virginica*  
 Holmes, Francis O., 1946  
*Adlumia fungosa*  
 Holmes, Francis O., 1946  
*Ageratum conyzoides*  
 Holmes, Francis O., 1946  
*Allium cepa*  
 Holmes, Francis O., 1946  
*Althaea rosea*  
 Holmes, Francis O., 1946  
*Amaranthus tricolor*  
 Holmes, Francis O., 1946  
*Amaryllis* (*Hippeastrum*) *punicum*  
 Holmes, Francis O., 1946  
*Ambrosia trifida*  
 Holmes, Francis O., 1946  
*Anagallis arvensis*  
 Holmes, Francis O., 1946  
*Anchusa azurea*  
 Holmes, Francis O., 1946  
*Anchusa capensis*  
 Holmes, Francis O., 1946  
*Antirrhinum majus*  
 Holmes, Francis O., 1946  
*Apium graveolens*  
 Anderson, C.W., 1954  
 Holmes, Francis O., 1946  
*Aquilegia caerulea*  
 Holmes, Francis O., 1946

## VIRUS

- V. TOBACCO ETCH (cont.)  
*Arctium lappa*  
 Holmes, Francis O., 1946  
*Asclepias curassavica*  
 Holmes, Francis O., 1946  
*Asclepias syriaca*  
 Holmes, Francis O., 1946  
*Avena sativa*  
 Holmes, Francis O., 1946  
*Barbarea vulgaris*  
 Holmes, Francis O., 1946  
*Begonia semperflorens*  
 Holmes, Francis O., 1946  
*Bellis perennis*  
 Holmes, Francis O., 1946  
*Beta vulgaris*  
 Bennett, C.W., 1944  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
*Bidens frondosa*  
 Holmes, Francis O., 1946  
*Brassica campestris* var. *napobrassica*  
 Holmes, Francis O., 1946  
*Brassica hirta* (*Brassica alba*)  
 Johnson, E.M., 1930  
*Brassica oleracea*  
 Holmes, Francis O., 1946  
 Johnson, E.M., 1930  
*Brassica oleracea* var. *gemmifera*  
 Bennett, C.W., 1944  
*Brassica pekinensis*  
 Holmes, Francis O., 1946  
*Brassica rapa* var. *depressa* \*  
 Johnson, E.M., 1930  
*Browallia americana* (*Browallia demissa*)  
 Holmes, Francis O., 1946  
*Calendula officinalis*  
 Holmes, Francis O., 1946  
*Calonyction aculeatum*  
 Holmes, Francis O., 1946  
*Campanula carpatica*  
 Holmes, Francis O., 1946  
*Campanula lactiflora*  
 Holmes, Francis O., 1946  
*Campanula medium*  
 Holmes, Francis O., 1946  
*Campanula petiolata* (*Campanula rotundifolia* of Amer. auths.)  
 Holmes, Francis O., 1946  
*Campanula pyramidalis*  
 Holmes, Francis O., 1946  
*Capsella bursa-pastoris*  
 Holmes, Francis O., 1946  
*Capsicum frutescens* (*Capsicum annuum*)  
 McKinney, H.H., 1952  
*Carica papaya*  
 Holmes, Francis O., 1946  
*Centaurea americana*  
 Holmes, Francis O., 1946  
*Centaurea montana*  
 Holmes, Francis O., 1946  
*Centaurea moschata*  
 Holmes, Francis O., 1946  
*Cheiranthus allionii*  
 Holmes, Francis O., 1946  
*Cheiranthus cheiri*  
 Holmes, Francis O., 1946  
*Chelidonium majus*  
 Holmes, Francis O., 1946  
*Chenopodium album*  
 Holmes, Francis O., 1946  
*Chenopodium ambrosioides*  
 Holmes, Francis O., 1946  
*Chenopodium glaucum*  
 Holmes, Francis O., 1946  
*Chenopodium rubrum*  
 Holmes, Francis O., 1946  
*Chrysanthemum leucanthemum*  
 Holmes, Francis O., 1946  
*Cichorium endivia*  
 Holmes, Francis O., 1946  
*Citrullus vulgaris*  
 Holmes, Francis O., 1946

## VIRUS

- V. TOBACCO ETCH (cont.)
- Clarkia elegans*  
Holmes, Francis O., 1946
- Cleome spinosa*  
Holmes, Francis O., 1946
- Cobaea scandens*  
Holmes, Francis O., 1946
- Coleus blumei*  
Holmes, Francis O., 1946
- Coreopsis grandiflora*  
Holmes, Francis O., 1946
- Cucumis melo*  
Holmes, Francis O., 1946
- Cucumis sativus*  
Anderson, C. W., 1954  
Bennett, C. W., 1944  
Holmes, Francis O., 1946  
Johnson, E. M., 1930
- Cucurbita maxima*  
Holmes, Francis O., 1946
- Cucurbita pepo*  
Holmes, Francis O., 1946
- Cuscuta californica*  
Bennett, C. W., 1944
- Cuscuta campestris*  
Bennett, C. W., 1944
- Cuscuta subinclusa*  
Bennett, C. W., 1944
- Cynoglossum amabile*  
Holmes, Francis O., 1946
- Cyphomandra betacea*  
Holmes, Francis O., 1946
- Dahlia pinnata*  
Holmes, Francis O., 1946
- Daucus carota*  
Holmes, Francis O., 1946
- Delphinium cultorum*  
Holmes, Francis O., 1946
- Dianthus barbatus*  
Holmes, Francis O., 1946
- Dianthus chinensis*  
Holmes, Francis O., 1946
- Digitalis purpurea*  
Holmes, Francis O., 1946
- Dolichos lablab*  
Holmes, Francis O., 1946
- Echium vulgare*  
Holmes, Francis O., 1946
- Emilia flammula*  
Holmes, Francis O., 1946
- Erigeron annuus*  
Holmes, Francis O., 1946
- Erigeron speciosus*  
Holmes, Francis O., 1946
- Euphorbia heterophylla*  
Holmes, Francis O., 1946
- Euphorbia marginata*  
Holmes, Francis O., 1946
- Euphorbia preslii*  
Holmes, Francis O., 1946
- Fagopyrum esculentum*  
Holmes, Francis O., 1946
- Gaillardia aristata*  
Holmes, Francis O., 1946
- Galinsoga parviflora*  
Holmes, Francis O., 1946
- Geranium carolinianum*  
Holmes, Francis O., 1946
- Geum canadense*  
Holmes, Francis O., 1946
- Geum chilense*  
Holmes, Francis O., 1946
- Gilia capitata*  
Holmes, Francis O., 1946
- Gilia liniflora*  
Holmes, Francis O., 1946
- Glycine max*  
Holmes, Francis O., 1946  
Johnson, E. M., 1930
- Gomphrena haageana*  
Holmes, Francis O., 1946
- Gossypium hirsutum*  
Holmes, Francis O., 1946

## VIRUS

- V. TOBACCO ETCH (cont.)
- Helianthus tuberosus*  
Holmes, Francis O., 1946
- Helichrysum bracteatum*  
Holmes, Francis O., 1946
- Heliopsis scabra*  
Holmes, Francis O., 1946
- Heliotropium corymbosum*  
Holmes, Francis O., 1946
- Hibiscus esculentus*  
Holmes, Francis O., 1946
- Hibiscus manihot*  
Holmes, Francis O., 1946
- Holcus sudanensis*  
Holmes, Francis O., 1946
- Hordeum vulgare*  
Holmes, Francis O., 1946
- Hunneimannia fumariaefolia*  
Holmes, Francis O., 1946
- Hypericum boreale*  
Holmes, Francis O., 1946
- Iberis gibraltaria*  
Holmes, Francis O., 1946
- Iberis sempervirens*  
Holmes, Francis O., 1946
- Iberis umbellata*  
Holmes, Francis O., 1946
- Impatiens balsamina*  
Holmes, Francis O., 1946
- Impatiens sultanii* (or sometimes *Impatiens holstii*)  
Holmes, Francis O., 1946
- Incarvillea variabilis*  
Holmes, Francis O., 1946
- Ipomoea batata*  
Holmes, Francis O., 1946
- Ipomoea nil*  
Holmes, Francis O., 1946
- Ipomoea setosa*  
Holmes, Francis O., 1946
- Ipomoea tricolor*  
Holmes, Francis O., 1946
- Kalanchoe daigremontiana*  
Holmes, Francis O., 1946
- Kochia scoparia*  
Holmes, Francis O., 1946
- Lantana camara*  
Holmes, Francis O., 1946
- Lavatera trimestris*  
Holmes, Francis O., 1946
- Lens esculenta*  
Holmes, Francis O., 1946
- Leptosyne maritima*  
Holmes, Francis O., 1946
- Lilium philippinense*  
Holmes, Francis O., 1946
- Limonium bonduelli*  
Holmes, Francis O., 1946
- Limonium sinuatum*  
Holmes, Francis O., 1946
- Linaria vulgaris*  
Holmes, Francis O., 1946
- Linum flavum*  
Holmes, Francis O., 1946
- Linum grandiflorum*  
Holmes, Francis O., 1946
- Linum perenne*  
Holmes, Francis O., 1946
- Lobelia erinus*  
Holmes, Francis O., 1946
- Lobularia maritima*  
Holmes, Francis O., 1946
- Luffa acutangula*  
Holmes, Francis O., 1946
- Lunaria annua*  
Holmes, Francis O., 1946
- Lupinus hartwegii*  
Holmes, Francis O., 1946
- Lychnis coeli-rosa*  
Holmes, Francis O., 1946
- Lycopersicon chilense*  
Holmes, Francis O., 1946
- Lycopus rubellus*  
Holmes, Francis O., 1946

## VIRUS

## V. TOBACCO ETCH (cont.)

- Malope trifida*  
 Holmes, Francis O., 1946  
*Malva rotundifolia*  
 Holmes, Francis O., 1946  
*Marrubium vulgare*  
 Holmes, Francis O., 1946  
*Matthiola bicornis*  
 Holmes, Francis O., 1946  
*Matthiola incana*  
 Holmes, Francis O., 1946  
*Medicago sativa*  
 Holmes, Francis O., 1946  
*Melissa officinalis*  
 Holmes, Francis O., 1946  
*Mentha spicata*  
 Holmes, Francis O., 1946  
*Mesembryanthemum crystallinum*  
 Holmes, Francis O., 1946  
*Mesembryanthemum lineare*  
 Holmes, Francis O., 1946  
*Mimulus luteus*  
 Holmes, Francis O., 1946  
*Mimulus moschatus*  
 Holmes, Francis O., 1946  
*Mirabilis jalapa*  
 Holmes, Francis O., 1946  
*Momordica charantia*  
 Holmes, Francis O., 1946  
*Myosotis scorpioides*  
 Holmes, Francis O., 1946  
*Myosotis sylvatica*  
 Holmes, Francis O., 1946  
*Nemesia strumosa*  
 Holmes, Francis O., 1946  
*Nepeta cataria*  
 Holmes, Francis O., 1946  
*Nepeta hederacea*  
 Holmes, Francis O., 1946  
*Nepeta mussini*  
 Holmes, Francis O., 1946  
*Nicotiana glauca*  
 Bennett, C. W., 1944  
*Nicotiana otophora*  
 Holmes, Francis O., 1946  
*Nicotiana palmeri*  
 Holmes, Francis O., 1946  
*Nicotiana raimondii*  
 Holmes, Francis O., 1946  
*Nicotiana tomentosiformis*  
 Holmes, Francis O., 1946  
*Nicotiana wigandioides*  
 Holmes, Francis O., 1946  
*Oenothera lamarckiana*  
 Holmes, Francis O., 1946  
*Oxalis corniculata*  
 Holmes, Francis O., 1946  
*Oxalis stricta*  
 Holmes, Francis O., 1946  
*Papaver nudicaule*  
 Holmes, Francis O., 1946  
*Papaver orientale*  
 Holmes, Francis O., 1946  
*Pastinaca sativa*  
 Holmes, Francis O., 1946  
*Pelargonium hortorum*  
 Holmes, Francis O., 1946  
*Pelargonium odoratissimum*  
 Holmes, Francis O., 1946  
*Petroselinum hortense*  
 Holmes, Francis O., 1946  
*Phaseolus aureus*  
 Holmes, Francis O., 1946  
*Phaseolus coccineus*  
 Holmes, Francis O., 1946  
*Phaseolus limensis*  
 Holmes, Francis O., 1946  
*Phaseolus vulgaris*  
 Anderson, C. W., 1954  
 Holmes, Francis O., 1946  
 Johnson, E. M., 1930  
*Phlox drummondii*  
 Holmes, Francis O., 1946

## VIRUS

## V. TOBACCO ETCH (cont.)

- Phytolacca decandra*  
 Holmes, Francis O., 1946  
 Johnson, E. M., 1930  
*Pisum sativum*  
 Anderson, C. W., 1954  
 Holmes, Francis O., 1946  
 Johnson, E. M., 1930  
*Plantago lanceolata*  
 Holmes, Francis O., 1946  
*Plantago major*  
 Holmes, Francis O., 1946  
*Plantago rugelii*  
 Holmes, Francis O., 1946  
*Polanisia trachysperma*  
 Holmes, Francis O., 1946  
*Polygonum hydropiper*  
 Holmes, Francis O., 1946  
*Potentilla arguta*  
 Holmes, Francis O., 1946  
*Potentilla monspeliensis*  
 Holmes, Francis O., 1946  
*Primula obconica*  
 Holmes, Francis O., 1946  
*Prunella vulgaris*  
 Holmes, Francis O., 1946  
*Ranunculus asiaticus*  
 Holmes, Francis O., 1946  
*Raphanus raphanistrum*  
 Holmes, Francis O., 1946  
*Raphanus sativus*  
 Holmes, Francis O., 1946  
 Johnson, E. M., 1930  
*Reseda odorata*  
 Holmes, Francis O., 1946  
*Ricinus communis*  
 Holmes, Francis O., 1946  
*Rosa odorata*  
 Holmes, Francis O., 1946  
*Rudbeckia hirta*  
 Holmes, Francis O., 1946  
*Rumex crispus*  
 Holmes, Francis O., 1946  
*Rumex obtusifolius*  
 Holmes, Francis O., 1946  
*Saintpaulia ionantha*  
 Holmes, Francis O., 1946  
*Salvia azurea*  
 Holmes, Francis O., 1946  
*Salvia farinacea*  
 Holmes, Francis O., 1946  
*Salvia patens*  
 Holmes, Francis O., 1946  
*Salvia splendens*  
 Holmes, Francis O., 1946  
*Sanvitalia procumbens*  
 Holmes, Francis O., 1946  
*Scabiosa atropurpurea*  
 Holmes, Francis O., 1946  
*Scabiosa caucasica*  
 Holmes, Francis O., 1946  
*Secale cereale*  
 Holmes, Francis O., 1946  
*Silene pendula*  
 Holmes, Francis O., 1946  
*Sinningia speciosa*  
 Holmes, Francis O., 1946  
*Solanum dulcamara*  
 Holmes, Francis O., 1946  
*Solanum melongena*  
 Bawden, F. C. and B. Kassanis, 1941  
*Solanum melongena* var. *esculentum*  
 Johnson, E. M., 1930  
*Solanum nodiflorum*  
 Bawden, F. C. and B. Kassanis, 1941  
*Solanum sanitwongsei*  
 Holmes, Francis O., 1946  
*Solidago rugosa*  
 Holmes, Francis O., 1946  
*Spinacia oleracea*  
 Holmes, Francis O., 1946  
*Stellaria media*  
 Holmes, Francis O., 1946



- VIRUS
- V. TOBACCO ETCH (cont.)
- Symplocarpus foetidus*  
Holmes, Francis O., 1946
- Tagetes erecta*  
Holmes, Francis O., 1946
- Tagetes patula*  
Holmes, Francis O., 1946
- Tagetes signata*  
Holmes, Francis O., 1946
- Taraxacum officinale*  
Holmes, Francis O., 1946
- Thelesperma hybridum*  
Holmes, Francis O., 1946
- Thunbergia alata*  
Holmes, Francis O., 1946
- Trachymene caerulea*  
Holmes, Francis O., 1946
- Trifolium incarnatum*  
Holmes, Francis O., 1946
- Trifolium pratense*  
Holmes, Francis O., 1946
- Trifolium repens*  
Holmes, Francis O., 1946
- Triticum aestivum*  
Holmes, Francis O., 1946
- Tropaeolum majus*  
Holmes, Francis O., 1946
- Verbascum phoeniceum*  
Holmes, Francis O., 1946
- Verbena canadensis*  
Holmes, Francis O., 1946
- Verbena venosa*  
Holmes, Francis O., 1946
- Veronica longifolia*  
Holmes, Francis O., 1946
- Veronica officinalis*  
Holmes, Francis O., 1946
- Veronica peregrina*  
Holmes, Francis O., 1946
- Vicia faba*  
Holmes, Francis O., 1946
- Vicia sativa*  
Holmes, Francis O., 1946
- Vigna sinensis*  
Anderson, C.W., 1954  
Holmes, Francis O., 1946
- Vinca rosea*  
Holmes, Francis O., 1946
- Viola arvensis*  
Holmes, Francis O., 1946
- Zea mays*  
Holmes, Francis O., 1946
- Zinnia haageana*  
Holmes, Francis O., 1946
- V. TOBACCO GREEN MOSAIC McKinney 1929 ((Synonym of V. Tobacco mosaic K.M. Smith 1957.))
- Cucumis sativus*  
Peterson, Paul D. and H.H. McKinney, 1938
- Lycopersicon esculentum*  
McKinney, H.H., 1929  
Peterson, Paul D. and H.H. McKinney, 1938
- Phaseolus vulgaris*  
Peterson, Paul D. and H.H. McKinney, 1938
- V. TOBACCO LEAF CURL Storey 1932
- Capsicum frutescens* (*Capsicum annum*)  
Bird, Julio, 1957
- Datura stramonium*  
Bird, Julio, 1957
- Gossypium hirsutum*  
Nariani, T.K., 1956
- Hibiscus esculentus*  
Nariani, T.K., 1956
- Hibiscus rosa-sinensis*  
Nariani, T.K., 1956
- Physalis peruviana*  
Bird, Julio, 1957
- Solanum melongena*  
Bird, Julio, 1957
- VIRUS
- V. TOBACCO MOSAIC Allard 1914
- Abelmoschus esculentus*  
Das, C.R. and S.P. Raychaudhuri, 1953
- Acalypha virginica*  
Holmes, Francis O., 1938, 1946
- Ageratum conyzoides*  
Holmes, Francis O., 1946
- Allium cepa*  
Holmes, Francis O., 1946
- Althaea rosea*  
Holmes, Francis O., 1946
- Amaryllis* (*Hippeastrum*) *puniceum*  
Holmes, Francis O., 1946
- Apium graveolens*  
Doolittle, S.P. and F.S. Beecher, 1942
- Aquilegia caerulea*  
Holmes, Francis O., 1946
- Arachis hypogaea*  
Das, C.R. and S.P. Raychaudhuri, 1953
- Arctium minus*  
Stover, W.G. and M.T. Vermillion, 1933
- Asclepias curassavica*  
Holmes, Francis O., 1946
- Asclepias syriaca*  
Holmes, Francis O., 1946
- Aster ericoides*  
Holmes, Francis O., 1938
- Aster lateriflorus*  
Holmes, Francis O., 1938
- Aster multiflorus*  
Holmes, Francis O., 1938
- Atropa belladonna*  
Allard, H.A., 1916
- Avena sativa*  
Holmes, Francis O., 1946
- Barbarea vulgaris*  
Holmes, Francis O., 1946
- Begonia semperflorens*  
Holmes, Francis O., 1946
- Beta vulgaris*  
Doolittle, S.P. and F.S. Beecher, 1942  
Johnson, E.M., 1930
- Brassica hirta* (*Brassica alba*)  
Johnson, E.M., 1930
- Brassica oleracea*  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
- Brassica pekinensis*  
Holmes, Francis O., 1946
- Brassica rapa* var. *depressa* \*  
Johnson, E.M., 1930
- Callistephus chinensis*  
Stover, W.G. and M.T. Vermillion, 1933
- Campanula carpatica*  
Holmes, Francis O., 1946
- Campanula lactiflora*  
Holmes, Francis O., 1946
- Campanula medium*  
Holmes, Francis O., 1946
- Campanula petiolata* (*Campanula rotundifolia* of Amer. auths.)  
Holmes, Francis O., 1946
- Campanula pyramidalis*  
Holmes, Francis O., 1946
- Capsicum frutescens* (*Capsicum annum*)  
Das, C.R. and S.P. Raychaudhuri, 1953  
Johnson, J., 1926, 1927
- Cassia tora*  
Anderson, C.W., 1954
- Centaurea moschata*  
Holmes, Francis O., 1946
- Chrysanthemum leucanthemum*  
Holmes, Francis O., 1946
- Circaea lutetiana*  
Holmes, Francis O., 1938
- Cirsium arvense*  
Holmes, Francis O., 1938
- Citrullus vulgaris*  
Doolittle, S.P. and F.S. Beecher, 1942  
Holmes, Francis O., 1946
- Clarkia elegans*  
Holmes, Francis O., 1946
- Cobaea scandens*  
Holmes, Francis O., 1946

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Crotalaria mucronata*  
Das, C.R. and S.P. Raychaudhuri, 1953
- Cucumis melo*  
Doolittle, S.P. and F.S. Beecher, 1942  
Holmes, Francis O., 1946
- Cucumis sativus*  
Ainsworth, G.C., 1933, 1937  
Doolittle, S.P. and F.S. Beecher, 1942  
Doolittle, S.P. and W.W. Gilbert, 1918  
Holmes, Francis O., 1941, 1946  
Jarrett, Phyllis H., 1930  
Johnson, E.M., 1930  
Peterson, Paul D. and H.H. McKinney, 1938  
Stover, W.G. and M.T. Vermillion, 1933
- Cucurbita maxima*  
Holmes, Francis O., 1946
- Cucurbita pepo*  
Holmes, Francis O., 1946
- Cuscuta californica*  
Bennett, C.W., 1944
- Cuscuta campestris*  
Bennett, C.W., 1944  
Cochran, G.W., 1946  
Costa, A.S., 1944  
Johnson, Folke, 1941
- Cuscuta subinclusa*  
Bennett, C.W., 1940, 1944
- Cyphomandra betacea*  
Holmes, Francis O., 1946
- Dahlia pinnata*  
Holmes, Francis O., 1946
- Datura fastuosa*  
Allard, H.A., 1916
- Daucus carota*  
Holmes, Francis O., 1938
- Delphinium cultorum*  
Holmes, Francis O., 1946
- Dianthus barbatus*  
Holmes, Francis O., 1946
- Dianthus chinensis*  
Holmes, Francis O., 1946
- Dolichos lablab*  
Holmes, Francis O., 1946
- Erigeron canadensis*  
Holmes, Francis O., 1938
- Erigeron speciosus*  
Holmes, Francis O., 1946
- Euphorbia heterophylla*  
Holmes, Francis O., 1946
- Euphorbia maculata*  
Holmes, Francis O., 1938
- Euphorbia marginata*  
Holmes, Francis O., 1946
- Euphorbia preslii*  
Holmes, Francis O., 1946
- Gaillardia aristata*  
Holmes, Francis O., 1946
- Galium triflorum*  
Holmes, Francis O., 1938
- Geum canadense*  
Holmes, Francis O., 1938, 1946
- Geum chilense*  
Holmes, Francis O., 1946
- Glycine max*  
Holmes, Francis O., 1946  
Johnson, E.M., 1930
- Gomphrena haageana*  
Holmes, Francis O., 1946
- Gossypium hirsutum*  
Das, C.R. and S.P. Raychaudhuri, 1953  
Holmes, Francis O., 1946
- Helianthus tuberosus*  
Holmes, Francis O., 1938, 1946
- Heliopsis scabra*  
Holmes, Francis O., 1946
- Hibiscus esculentus*  
Holmes, Francis O., 1946
- Hibiscus manihot*  
Holmes, Francis O., 1946
- Hieracium scabrum*  
Holmes, Francis O., 1938

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Holcus sudanensis*  
Holmes, Francis O., 1946
- Hordeum vulgare*  
Holmes, Francis O., 1946
- Hunnemannia fumariaefolia*  
Holmes, Francis O., 1946
- Hypericum boreale*  
Holmes, Francis O., 1938, 1946
- Iberis sempervirens*  
Holmes, Francis O., 1946
- Impatiens balsamina*  
Holmes, Francis O., 1946
- Impatiens biflora*  
Holmes, Francis O., 1938
- Ipomoea batata*  
Doolittle, S.P. and L.L. Harter, 1945  
Holmes, Francis O., 1946
- Ipomoea setosa*  
Holmes, Francis O., 1946
- Lactuca sativa*  
Doolittle, S.P. and F.S. Beecher, 1942
- Lagenaria siceraria (Lagenaria leucantha)*  
Das, C.R. and S.P. Raychaudhuri, 1953
- Lantana camara*  
Holmes, Francis O., 1946
- Lathyrus odoratus*  
Allard, H.A., 1916
- Lavatera trimestris*  
Holmes, Francis O., 1946
- Lens esculenta*  
Holmes, Francis O., 1946
- Lilium philippinense*  
Holmes, Francis O., 1946
- Linum flavum*  
Holmes, Francis O., 1946
- Linum grandiflorum*  
Holmes, Francis O., 1946
- Linum perenne*  
Holmes, Francis O., 1946
- Lobelia inflata*  
Holmes, Francis O., 1938
- Luffa acutangula*  
Holmes, Francis O., 1946
- Lupinus hartwegii*  
Holmes, Francis O., 1946
- Lychnis alba*  
Holmes, Francis O., 1938
- Lycopersicon chilense*  
Holmes, Francis O., 1943
- Lycopersicon esculentum*  
McKinney, H.H., 1935
- Lycopus rubellus*  
Holmes, Francis O., 1938
- Lycopus virginicus*  
Holmes, Francis O., 1938
- Malope trifida*  
Holmes, Francis O., 1946
- Malva rotundifolia*  
Holmes, Francis O., 1938, 1946
- Matthiola incana*  
Holmes, Francis O., 1946
- Medicago sativa*  
Costa, A.S., 1944  
Holmes, Francis O., 1938, 1946  
Johnson, Folke, 1941
- Mirabilis jalapa*  
Holmes, Francis O., 1946
- Momordica charantia*  
Holmes, Francis O., 1946
- Nepeta cataria*  
Stover, W.G. and M.T. Vermillion, 1933
- Nepeta hederacea*  
Holmes, Francis O., 1946
- Nicandra physalodes*  
Fernow, K.H., 1923
- Nicotiana glauca*  
Adsuar, J. and L. Lopez Matos, 1955  
Johnson, James, 1927
- Nicotiana glutinosa*  
Allard, H.A., 1916, 1917  
Johnson, J., 1926, 1927

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Nicotiana glutinosa* x *Nicotiana tabacum*  
Allard, H. A., 1916
- Nicotiana tabacum*  
Valleau, W. D., 1935
- Oenothera lamarckiana*  
Holmes, Francis O., 1946
- Oxalis corniculata*  
Holmes, Francis O., 1938, 1946
- Oxalis stricta*  
Holmes, Francis O., 1938, 1946
- Papaver orientale*  
Holmes, Francis O., 1946
- Pastinaca sativa*  
Holmes, Francis O., 1946
- Pelargonium hortorum*  
Holmes, Francis O., 1946
- Pelargonium odoratissimum*  
Holmes, Francis O., 1946
- Phaseolus aureus*  
Holmes, Francis O., 1946
- Phaseolus coccineus*  
Holmes, Francis O., 1946
- Phaseolus limensis*  
Holmes, Francis O., 1946
- Phaseolus vulgaris*  
Holmes, Francis O., 1941  
Johnson, E. M., 1930  
McKinney, H. H., 1952  
Price, W. C. and S. B. Fenne, 1951
- Phytolacca decandra*  
Allard, H. A., 1916, 1918  
Doolittle, S. P. and F. S. Beecher, 1942  
Johnson, E. M., 1930  
Johnson, J., 1926, 1927
- Pisum sativum*  
Das, C. R. and S. P. Raychaudhuri, 1953  
Holmes, Francis O., 1946  
Johnson, E. M., 1930
- Polygonum hydropiper*  
Holmes, Francis O., 1938
- Polygonum persicaria*  
Holmes, Francis O., 1938
- Portulaca oleracea*  
Holmes, Francis O., 1938
- Potentilla arguta*  
Holmes, Francis O., 1938, 1946
- Potentilla monspeliensis*  
Holmes, Francis O., 1938, 1946
- Radicula palustris*  
Holmes, Francis O., 1938
- Ranunculus asiaticus*  
Holmes, Francis O., 1946
- Raphanus raphanistrum*  
Holmes, Francis O., 1946
- Raphanus sativus*  
Holmes, Francis O., 1946  
Johnson, E. M., 1930
- Reseda odorata*  
Holmes, Francis O., 1946
- Ricinus communis*  
Holmes, Francis O., 1946
- Rosa odorata*  
Holmes, Francis O., 1946
- Rudbeckia hirta*  
Holmes, Francis O., 1938
- Rumex acetosella*  
Holmes, Francis O., 1938
- Rumex crispus*  
Stover, W. G. and M. T. Vermillion, 1933
- Saintpaulia ionantha*  
Holmes, Francis O., 1946
- Sanicula canadensis*  
Holmes, Francis O., 1938
- Scabiosa atropurpurea*  
Holmes, Francis O., 1946
- Scabiosa caucasica*  
Holmes, Francis O., 1946
- Secale cereale*  
Holmes, Francis O., 1946
- Solanum melongena*  
Johnson, J., 1926

## VIRUS

## V. TOBACCO MOSAIC (cont.)

- Solanum tuberosum*  
Allard, H. A., 1916  
Quanjer, H. M., 1920  
Schultz, E. S. and Donald Folsom, 1923
- Solidago graminifolia*  
Holmes, Francis O., 1938
- Solidago rugosa*  
Holmes, Francis O., 1938, 1946
- Stellaria media*  
Holmes, Francis O., 1938
- Symplocarpus foetidus*  
Holmes, Francis O., 1946
- Taraxacum officinale*  
Holmes, Francis O., 1938, 1946
- Thelesperma hybridum*  
Holmes, Francis O., 1946
- Thunbergia alata*  
Holmes, Francis O., 1946
- Tithonia rotundifolia*  
Cook, M. T., 1936
- Trachymene caerulea*  
Holmes, Francis O., 1946
- Trifolium alexandrinum*  
Das, C. R. and S. P. Raychaudhuri, 1953
- Trifolium incarnatum*  
Costa, A. S., 1944  
Holmes, Francis O., 1946
- Trifolium pratense*  
Holmes, Francis O., 1946
- Trifolium repens*  
Holmes, Francis O., 1938, 1946
- Triticum aestivum*  
Holmes, Francis O., 1946
- Verbena urticifolia*  
Holmes, Francis O., 1938
- Verbena venosa*  
Holmes, Francis O., 1946
- Veronica officinalis*  
Holmes, Francis O., 1938
- Veronica peregrina*  
Holmes, Francis O., 1938
- Vicia faba*  
Holmes, Francis O., 1946
- Vicia sativa*  
Holmes, Francis O., 1946
- Vigna sinensis*  
Holmes, Francis O., 1946  
Smith, Kenneth M., 1935
- Vinca rosea*  
Holmes, Francis O., 1946
- Viola arvensis*  
Holmes, Francis O., 1946
- Viola papilionacea*  
Holmes, Francis O., 1938
- Viola sagittata*  
Holmes, Francis O., 1938
- Zea mays*  
Holmes, Francis O., 1946
- Zinnia elegans*  
Das, C. R. and S. P. Raychaudhuri, 1953
- V. TOBACCO NECROSIS K. M. Smith and Bald 1935;  
*Begonia semperflorens* Price 1938  
Price, W. C., Frank P. McWhorter and Betty H. Steranka, 1950
- Dianthus barbatus*  
Kassanis, B., 1955
- Dianthus caryophyllus*  
Kassanis, B., 1955
- Impatiens balsamina*  
Price, W. C., Frank P. McWhorter and Betty H. Steranka, 1950
- Lychnis alba*  
Fulton, Robert W., 1950
- Raphanus sativus*  
Fulton, Robert W., 1950
- Tropaeolum majus*  
Fulton, Robert W., 1950

## VIRUS

- V. TOBACCO RING SPOT Fromme et al. 1927
- Althaea rosea*  
Wingard, S. A., 1928
  - Amaranthus retroflexus*  
Henderson, R. G. and S. A. Wingard, 1931
  - Arachis hypogaea*  
Cooper, W. E., 1949
  - Arctium lappa*  
Fenne, S. B., 1931
  - Asclepias* spp.  
Fenne, S. B., 1931
  - Berberis vulgaris*  
Wingard, S. A., 1928
  - Beta vulgaris*  
Johnson, E. M., 1930
  - Brassica campestris* var. *napobrassica*  
Wingard, S. A., 1928
  - Brassica hirta* (*Brassica alba*)  
Johnson, E. M., 1930  
Wingard, S. A., 1928
  - Brassica napus*  
Pound, Glenn S., 1949
  - Brassica oleracea*  
Johnson, E. M., 1930
  - Brassica oleracea* var. *acephala*  
Wingard, S. A., 1928
  - Brassica oleracea* var. *botrytis*  
Pound, Glenn S., 1949
  - Brassica oleracea* var. *capitata*  
Bridgmon, G. H. and J. C. Walker, 1952  
Smith, Kenneth M., 1929  
Wingard, S. A., 1928
  - Brassica oleracea* var. *gemmifera*  
Pound, Glenn S., 1949
  - Brassica rapa*  
Wingard, S. A., 1928
  - Brassica rapa* var. *depressa* \*  
Johnson, E. M., 1930
  - Capsicum frutescens* (*Capsicum annum*)  
Berkeley, G. H., 1953  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Cooper, W. E., 1949  
Johnson, E. M., 1930
  - Capsicum frutescens* var. *grossum*  
Pound, Glenn S., 1949  
Wingard, S. A., 1928
  - Centranthus ruber*  
Wingard, S. A., 1928
  - Chenopodium album*  
Fenne, S. B., 1931  
Henderson, R. G. and S. A. Wingard, 1931
  - Chrysanthemum carinatum*  
Wingard, S. A., 1928
  - Chrysopsis* spp.  
Henderson, R. G. and S. A. Wingard, 1931
  - Cirsium arvense*  
Wingard, S. A., 1928
  - Coleus blumei* var. *verschaffeltii*  
Wingard, S. A., 1928
  - Cosmos diversifolius*  
Wingard, S. A., 1928
  - Crotalaria intermedia*  
Cooper, W. E., 1949
  - Cuscuta campestris*  
Johnson, Folke, 1941
  - Dactylis glomerata*  
Wingard, S. A., 1928
  - Dahlia merckii*  
Wingard, S. A., 1928
  - Datura meteloides*  
Cooper, W. E., 1949
  - Datura stramonium*  
Fenne, S. B., 1931
  - Daucus carota* var. *sativa*  
Wingard, S. A., 1928
  - Dianthus barbatus*  
Wingard, S. A., 1928
  - Glycine hispida*  
Wingard, S. A., 1928
  - Glycine max*  
Johnson, E. M., 1930
  - Gomphrena globosa*  
Cooper, W. E., 1949

## VIRUS

- V. TOBACCO RING SPOT (cont.)
- Ipomoea batata*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
  - Kalanchoe* (*Bryophyllum*) *pinnatum*  
Wingard, S. A., 1928
  - Lactuca virosa*  
Fenne, S. B., 1931
  - Lycopersicon esculentum*  
Berkeley, G. H., 1953  
Bridgmon, G. H. and J. C. Walker, 1952  
Cooper, W. E., 1949  
Grogan, R. G. and W. C. Schnathorst, 1955  
Johnson, E. M., 1930  
Pound, Glenn S., 1949  
Stubbs, M. W., 1937  
Wingard, S. A., 1928
  - Malcomia maritima*  
Wingard, S. A., 1928
  - Malus sylvestris*  
Wingard, S. A., 1928
  - Malva rotundifolia*  
Fenne, S. B., 1931
  - Medicago sativa*  
Benedict, W. G., 1955  
Grogan, R. G. and W. C. Schnathorst, 1955  
Stubbs, M. W., 1937
  - Melilotus alba*  
Bridgmon, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
  - Melilotus hybridum* \*  
Benedict, W. G., 1955
  - Melilotus officinalis*  
Benedict, W. G., 1955
  - Mentha piperita*  
Wingard, S. A., 1928
  - Nicotiana glauca*  
Grogan, R. G. and W. C. Schnathorst, 1955
  - Nicotiana glutinosa*  
Starr, Chester K. and W. E. Cooper, 1944  
Stubbs, M. W., 1937
  - Oxalis repens*  
Wingard, S. A., 1928
  - Pastinaca sativa*  
Wingard, S. A., 1928
  - Pelargonium domesticum*  
Wingard, S. A., 1928
  - Petunia hybrida*  
Rosberg, David W., 1953
  - Phaseolus angularis*  
Cooper, W. E., 1949
  - Phaseolus vulgaris*  
Johnson, E. M., 1930
  - Phleum pratense*  
Wingard, S. A., 1928
  - Physalis pubescens*  
Johnson, E. M., 1930
  - Phytolacca americana*  
Henderson, R. G. and S. A. Wingard, 1931
  - Phytolacca decandra*  
Fenne, S. B., 1931
  - Pisum sativum*  
Benedict, W. G., 1955  
Johnson, E. M., 1930  
Wingard, S. A., 1928
  - Plantago major*  
Fenne, S. B., 1931  
Henderson, R. G. and S. A. Wingard, 1931  
Wingard, S. A., 1928
  - Polygonum hydropiper*  
Henderson, R. G. and S. A. Wingard, 1931
  - Polygonum* spp.  
Fenne, S. B., 1931
  - Raphanus sativus*  
Johnson, E. M., 1930  
Wingard, S. A., 1928
  - Rosa* spp.  
Wingard, S. A., 1928
  - Rumex abyssinicus*  
Wingard, S. A., 1928
  - Rumex obtusifolius*  
Fenne, S. B., 1931
  - Rumex patientia*  
Wingard, S. A., 1928

## VIRUS

## V. TOBACCO RING SPOT (cont.)

- Sesbania macrocarpa*  
Cooper, W. E., 1949
- Solanum carolinense*  
Henderson, R. G. and S. A. Wingard, 1931  
Johnson, E. M., 1930
- Solanum dulcamara*  
Fenne, S. B., 1931  
Wingard, S. A., 1928
- Solanum melongena* var. *esculentum*  
Johnson, E. M., 1930
- Solanum nigrum*  
Henderson, R. G. and S. A. Wingard, 1931  
Smith, Kenneth M., 1929
- Solanum tuberosum*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Grogan, R. G. and W. C. Schnathorst, 1955  
Wingard, S. A., 1928
- Spinacia oleracea*  
Smith, Kenneth M., 1929  
Wingard, S. A., 1928
- Stellaria media*  
Wingard, S. A., 1928
- Tradescantia fluminensis*  
Wingard, S. A., 1928
- Tragopogon porrifolius*  
Wingard, S. A., 1928
- Trifolium hybridum*  
Fenne, S. B., 1931  
Stubbs, M. W., 1937
- Trifolium incarnatum*  
Bridgmon, G. H. and J. C. Walker, 1952
- Trifolium medium*  
Fenne, S. B., 1931
- Trifolium pratense*  
Bridgmon, G. H. and J. C. Walker, 1952  
Cheo, Pen Ching and W. J. Zaumeyer, 1952  
Fenne, S. B., 1931  
Stubbs, M. W., 1937
- Trifolium repens*  
Fenne, S. B., 1931  
Grogan, R. G. and W. C. Schnathorst, 1955  
Stubbs, M. W., 1937
- Triticum vulgare*  
Wingard, S. A., 1928
- Tropaeolum majus*  
Wingard, S. A., 1928
- Vicia villosa*  
Cooper, W. E., 1949
- Vigna sinensis*  
Stubbs, M. W., 1937
- Xanthium americanum*  
Henderson, R. G. and S. A. Wingard, 1931
- Zea mays*  
Cheo, Pen Ching and W. J. Zaumeyer, 1952
- Zebrina pendula*  
Wingard, S. A., 1928
- Zinnia elegans*  
Cooper, W. E., 1949

## V. TOBACCO RING SPOT NO. 2 Price 1936

- Cheiranthus cheiri*  
Brierley, Philip, 1954
- Dianthus plumarius*  
Brierley, Philip, 1954
- Pelargonium hortorum*  
Brierley, Philip, 1954
- Philadelphus coronarius*  
Brierley, Philip, 1954
- Physalis angulata*  
Brierley, Philip, 1954
- Physostegia virginiana*  
Brierley, Philip, 1954
- Portulaca grandiflora*  
Brierley, Philip, 1954
- Reseda odorata*  
Brierley, Philip, 1954

## V. TOBACCO STREAK J. Johnson 1936

- Apium graveolens*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Aquilegia canadensis*  
Thomas, H. Rex and W. J. Zaumeyer, 1950

## VIRUS

## V. TOBACCO STREAK (cont.)

- Beta vulgaris*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Brassica oleracea* var. *botrytis*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Canavalia ensiformis*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Capsicum frutescens* (*Capsicum annum*)  
Johnson, J., 1936
- Lycopersicon esculentum*  
Johnson, J., 1936  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Malus sylvestris*  
Fulton, Robert W., 1956
- Medicago sativa*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Nicotiana glutinosa*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Petunia hybrida*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Phaseolus angularis*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Phaseolus calcaratus*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Phaseolus lathyroides*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Phaseolus mungo*  
Cooper, W. E., 1949
- Phytolacca americana*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Portulaca oleracea*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Sesbania exaltata*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Solanum melongena*  
Johnson, J., 1936
- Solanum tuberosum*  
Johnson, J., 1936
- Spinacia oleracea*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Trifolium repens*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Tropaeolum majus*  
Thomas, H. Rex and W. J. Zaumeyer, 1950
- Zinnia elegans*  
Thomas, H. Rex and W. J. Zaumeyer, 1950

## V. TOBACCO STUNT \*

- Lycopersicon esculentum*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana alata*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana glauca*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana glutinosa*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana gossei*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana longiflora*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana paniculata*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana repanda*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana rustica*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana sanderae*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana suaveolens*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956
- Nicotiana sylvestris*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki, 1956

## VIRUS

## V. TOBACCO STUNT \* (cont.)

- Nicotiana trigonophylla*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki,  
1956
- Petunia hybrida*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki,  
1956
- Solanum melongena*  
Hidaka, Zyun, Tetsuo Uozumi and Chuji Hiruki,  
1956

## V. TOBACCO YELLOW DWARF Hill 1937

- Nicotiana debneyi*  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana exigua*  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana rotundifolia*  
Hill, A.V. and M. Mandryk, 1954
- Nicotiana velutina*  
Hill, A.V. and M. Mandryk, 1954
- Solanum tuberosum*  
Hill, A.V. and M. Mandryk, 1954

## V. TOMATO ASPERMY Blencowe and Caldwell 1949

- Ambrosia artemisiifolia*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Apium graveolens*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955
- Belamcanda chinensis*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Bellis perennis*  
Hollings, M., 1955
- Brassica chinensis*  
Hollings, M., 1955
- Brassica oleracea* var. *botrytis*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955
- Brassica oleracea* var. *capitata*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955
- Cheiranthus cheiri*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955
- Coleus blumei*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Convolvulus sepium*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Coreopsis douglasii*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Cosmos sulphureus*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Cucumis sativus*  
Blencowe, J.W. and John Caldwell, 1949
- Cucurbita pepo*  
Hollings, M., 1955
- Cuscuta campestris*  
Brierley, Philip and Floyd F. Smith, 1957
- Dahlia pinnata*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955
- Datura stramonium*  
Blencowe, J.W. and John Caldwell, 1949
- Delphinium hybridum*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955
- Dianthus barbatus*  
Hollings, M., 1955
- Dianthus caryophyllus*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle,  
1955  
Hollings, M., 1955

## VIRUS

## V. TOMATO ASPERMY (cont.)

- Dianthus chinensis*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Erigeron annuus*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Erigeron canadensis*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Fuchsia magellanica*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Gladiolus* spp.  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Gossypium hirsutum*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Helenium autumnale*  
Hollings, M., 1955
- Hemerocallis fulva*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Hyoscyamus niger*  
Blencowe, J.W. and John Caldwell, 1949
- Lactuca sativa*  
Hollings, M., 1955
- Lilium formosanum* \*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Lupinus polyphyllus*  
Hollings, M., 1955
- Lychnis viscaria*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Matthiola incana*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Nicotiana sylvestris*  
Blencowe, J.W. and John Caldwell, 1949
- Pelargonium hortorum*  
Hollings, M., 1955
- Phaseolus vulgaris*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Plantago media*  
Hollings, M., 1955
- Primula polyantha*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Quamoclit sloteri*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Saintpaulia ionantha*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Salvia splendens*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Sanvitalia procumbens*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Scabiosa atropurpurea*  
Hollings, M., 1955
- Senecio mikanioides*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Silene compacta*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955
- Solanum dulcamara*  
Hollings, M., 1955
- Solanum nigrum*  
Blencowe, J.W. and John Caldwell, 1949
- Solanum nodiflorum*  
Blencowe, J.W. and John Caldwell, 1949
- Solanum tuberosum*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955  
Hollings, M., 1955
- Sparaxis tricolor*  
Brierley, Philip, Floyd F. Smith and S.P.  
Doolittle, 1955

## VIRUS

## V. TOMATO ASPERMY (cont.)

- Tagetes erecta*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Tithonia rotundifolia*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Tropaeolum majus*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955  
Hollings, M., 1955
- Vinca rosea*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Viola tricolor*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955
- Zea mays*  
Brierley, Philip, Floyd F. Smith and S.P. Doolittle, 1955

## V. TOMATO BIG BUD Samuel et al. 1933

- Cuscuta campestris*  
Helms, Katie, 1957  
Hill, A.V. and M. Mandryk, 1954  
Kunkel, L.O., 1951  
*Nicotiana glutinosa*  
Samuel, G., J.G. Bald and C.M. Eardley, 1933  
*Nicotiana tabacum*  
Samuel, G., J.G. Bald and C.M. Eardley, 1933

## V. TOMATO BUSHY STUNT Smith 1935

- Cuscuta campestris*  
Johnson, Folke, 1941

## V. TOMATO RING SPOT Samuel and Imle 1942 ((Distinct from V. Tomato spotted wilt.))

- Abutilon theophrasti*  
Samson, R.W. and E.P. Imle, 1942
- Ambrosia artemisiifolia*  
Samson, R.W. and E.P. Imle, 1942
- Antirrhinum majus*  
Samson, R.W. and E.P. Imle, 1942
- Asclepias tuberosa*  
Samson, R.W. and E.P. Imle, 1942
- Begonia semperflorens*  
Samson, R.W. and E.P. Imle, 1942
- Beta vulgaris*  
Samson, R.W. and E.P. Imle, 1942
- Beta vulgaris var. cicla*  
Samson, R.W. and E.P. Imle, 1942
- Bidens bipinnata*  
Samson, R.W. and E.P. Imle, 1942
- Bidens discoidea*  
Samson, R.W. and E.P. Imle, 1942
- Brassica hirta (Brassica alba)*  
Samson, R.W. and E.P. Imle, 1942
- Brassica oleracea*  
Samson, R.W. and E.P. Imle, 1942
- Brassica rapa*  
Samson, R.W. and E.P. Imle, 1942
- Calendula officinalis*  
Samson, R.W. and E.P. Imle, 1942
- Callistephus chinensis*  
Samson, R.W. and E.P. Imle, 1942
- Chenopodium album*  
Samson, R.W. and E.P. Imle, 1942
- Citrullus vulgaris*  
Samson, R.W. and E.P. Imle, 1942
- Cucumis anguria*  
Samson, R.W. and E.P. Imle, 1942
- Cucumis melo*  
Samson, R.W. and E.P. Imle, 1942
- Cucumis sativus*  
Samson, R.W. and E.P. Imle, 1942
- Cucurbita maxima*  
Samson, R.W. and E.P. Imle, 1942
- Cucurbita moschata*  
Samson, R.W. and E.P. Imle, 1942
- Cucurbita pepo*  
Samson, R.W. and E.P. Imle, 1942
- Cuscuta californica*  
Bennett, C.W., 1944

## VIRUS

## V. TOMATO RING SPOT (cont.)

- Cuscuta campestris*  
Bennett, C.W., 1944
- Cuscuta subinclusa*  
Bennett, C.W., 1944
- Daucus carota*  
Samson, R.W. and E.P. Imle, 1942
- Delphinium ajacis*  
Samson, R.W. and E.P. Imle, 1942
- Emilia sonchifolia*  
Samson, R.W. and E.P. Imle, 1942
- Erigeron speciosus*  
Samson, R.W. and E.P. Imle, 1942
- Euphorbia heterophylla*  
Samson, R.W. and E.P. Imle, 1942
- Glycine max*  
Samson, R.W. and E.P. Imle, 1942
- Hibiscus esculentus*  
Samson, R.W. and E.P. Imle, 1942
- Ipomoea batata*  
Samson, R.W. and E.P. Imle, 1942
- Ipomoea purpurea*  
Samson, R.W. and E.P. Imle, 1942
- Lagenaria siceraria (Lagenaria leucantha)*  
Samson, R.W. and E.P. Imle, 1942
- Luffa aegyptiaca (Luffa cylindrica)*  
Samson, R.W. and E.P. Imle, 1942
- Lupinus hartwegii*  
Samson, R.W. and E.P. Imle, 1942
- Lycopersicon peruvianum*  
Samson, R.W. and E.P. Imle, 1942
- Nicotiana glutinosa*  
Samson, R.W. and E.P. Imle, 1942
- Nicotiana sylvestris*  
Samson, R.W. and E.P. Imle, 1942
- Pelargonium hortorum*  
Samson, R.W. and E.P. Imle, 1942
- Pelargonium odoratissimum*  
Samson, R.W. and E.P. Imle, 1942
- Persicaria hydropiperoides \**  
Samson, R.W. and E.P. Imle, 1942
- Phaseolus limensis*  
Samson, R.W. and E.P. Imle, 1942
- Phaseolus vulgaris*  
Samson, R.W. and E.P. Imle, 1942
- Phlox drummondii*  
Samson, R.W. and E.P. Imle, 1942
- Phytolacca decandra*  
Samson, R.W. and E.P. Imle, 1942
- Plantago lanceolata*  
Samson, R.W. and E.P. Imle, 1942
- Plantago major*  
Samson, R.W. and E.P. Imle, 1942
- Quamoclit pennata*  
Samson, R.W. and E.P. Imle, 1942
- Rumex acetosella*  
Samson, R.W. and E.P. Imle, 1942
- Salpiglossis sinuata*  
Samson, R.W. and E.P. Imle, 1942
- Scabiosa atropurpurea*  
Samson, R.W. and E.P. Imle, 1942
- Tagetes erecta*  
Samson, R.W. and E.P. Imle, 1942
- Tagetes signata*  
Samson, R.W. and E.P. Imle, 1942
- Tetragonia expansa*  
Samson, R.W. and E.P. Imle, 1942
- Tropaeolum majus*  
Samson, R.W. and E.P. Imle, 1942
- Verbascum thapsus*  
Samson, R.W. and E.P. Imle, 1942
- Vinca rosea*  
Samson, R.W. and E.P. Imle, 1942
- Viola tricolor*  
Samson, R.W. and E.P. Imle, 1942
- Zinnia elegans*  
Samson, R.W. and E.P. Imle, 1942

## V. TOMATO SPOTTED WILT Samuel et al. 1930

- Antirrhinum* spp.  
Smith, Kenneth M., 1931, 1932
- Beta vulgaris*  
Sakimura, K., 1940

## VIRUS

## V. TOMATO SPOTTED WILT (cont.)

- Beta vulgaris  
Smith, Kenneth M., 1931
- Beta vulgaris var. cicla  
Sakimura, K., 1940
- Brassica oleracea var. botrytis  
Sakimura, K., 1940
- Brassica oleracea var. capitata  
Sakimura, K., 1940
- Calendula spp.  
Smith, Kenneth M., 1932
- Callistephus chinensis  
Smith, Kenneth M., 1931
- Capsicum frutescens (Capsicum annuum)  
Parris, G.K., 1940
- Chrysanthemum coronarium  
Sakimura, K., 1940
- Commelina nudiflora  
Sakimura, K., 1940
- Commelina venghalensis \*  
Sakimura, K., 1940
- Cucumis sativus  
Ainsworth, G.C., 1940
- Cuscuta californica  
Bennett, C.W., 1944
- Cuscuta campestris  
Bennett, C.W., 1944
- Cuscuta subinclusa  
Bennett, C.W., 1944
- Gossypium hirsutum  
Smith, Kenneth M., 1931
- Lactuca sativa  
Parris, G.K., 1940
- Lycopersicon peruvianum  
Smith, Paul G., 1944
- Nicotiana glauca  
Shapovalov, M., 1934
- Phaseolus vulgaris  
Parris, G.K., 1940  
Smith, Kenneth M., 1931, 1932
- Phytolacca decandra  
Smith, Kenneth M., 1931
- Pisum sativum  
Parris, G.K., 1940
- Spinacia oleracea  
Smith, Kenneth M., 1931
- Tetragonia expansa  
Sakimura, K., 1940  
Smith, Kenneth M., 1931
- V. TOMATO TWISTED LEAF Ferguson 1951
- Nicotiana glutinosa  
Ferguson, I.A.C., 1951
- Nicotiana tabacum  
Ferguson, I.A.C., 1951
- Solanum melongena  
Ferguson, I.A.C., 1951
- V. TOMATO YELLOW NET Sylvester 1954
- Beta vulgaris  
Sylvester, Edward S., 1954
- Geum chiloense  
Sylvester, Edward S., 1954
- Nicotiana glutinosa  
Sylvester, Edward S., 1954
- Solanum tuberosum  
Sylvester, Edward S., 1954
- V. TROPAEOLUM MOSAIC Jensen 1950
- Capsicum frutescens (Capsicum annuum)  
Silberschmidt, Karl, 1953
- Lactuca sativa  
Silberschmidt, Karl, 1953
- Lycopersicon esculentum  
Silberschmidt, Karl, 1953
- Nicotiana rustica  
Silberschmidt, Karl, 1953
- Oxalis spp.  
Silberschmidt, Karl, 1953
- Pelargonium hortorum  
Silberschmidt, Karl, 1953
- Petunia hybrida  
Silberschmidt, Karl, 1953

## VIRUS

## V. TULIP BREAKING McKenny Hughes 1931

- Agapanthus africanus  
Brierley, Philip and Floyd F. Smith, 1944
- Allium cepa  
Brierley, Philip and Floyd F. Smith, 1944  
McWhorter, F.P., 1935
- Allium cernuum  
Brierley, Philip and Floyd F. Smith, 1944
- Allium odorum  
Brierley, Philip and Floyd F. Smith, 1944
- Allium speciosum  
Brierley, Philip and Floyd F. Smith, 1944
- Aloe spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Amaryllis spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Asparagus asparagoides  
Brierley, Philip and Floyd F. Smith, 1944
- Asparagus sprengeri  
Brierley, Philip and Floyd F. Smith, 1944
- Asphodeline lutea  
Brierley, Philip and Floyd F. Smith, 1944
- Avena sativa  
Brierley, Philip and Floyd F. Smith, 1944
- Belamcanda chinensis  
Brierley, Philip and Floyd F. Smith, 1944
- Brassica rapa  
Brierley, Philip and Floyd F. Smith, 1944
- Brodiaea capitata  
McWhorter, F.P., 1935
- Brodiaea uniflora  
Brierley, Philip and Floyd F. Smith, 1944
- Camassia leichtlinii  
Brierley, Philip and Floyd F. Smith, 1944
- Camassia quamash  
McWhorter, F.P., 1935
- Canna generalis  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina coelestis  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina communis  
Brierley, Philip and Floyd F. Smith, 1944
- Commelina nudiflora  
Brierley, Philip and Floyd F. Smith, 1944
- Convallaria majalis  
Brierley, Philip and Floyd F. Smith, 1944
- Dioscorea alata  
Brierley, Philip and Floyd F. Smith, 1944
- Dracaena fragrans  
Brierley, Philip and Floyd F. Smith, 1944
- Dracaena sanderiana  
Brierley, Philip and Floyd F. Smith, 1944
- Erythronium spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Freesia hybrida  
Brierley, Philip and Floyd F. Smith, 1944
- Galtonia candicans  
Brierley, Philip and Floyd F. Smith, 1944
- Gloriosa rothschildiana  
Brierley, Philip and Floyd F. Smith, 1944
- Gloriosa superba  
Brierley, Philip and Floyd F. Smith, 1944
- Haworthia altilinea  
Brierley, Philip and Floyd F. Smith, 1944
- Hedychium coronarium  
Brierley, Philip and Floyd F. Smith, 1944
- Hosta plantaginea  
Brierley, Philip and Floyd F. Smith, 1944
- Hyacinthus orientalis  
Brierley, Philip and Floyd F. Smith, 1944
- Iris filifolia  
Brierley, Philip and Floyd F. Smith, 1944
- Iris germanica  
Brierley, Philip and Frank P. McWhorter, 1936  
McWhorter, F.P., 1935
- Iris pallida  
Brierley, Philip and Floyd F. Smith, 1944
- Iris versicolor  
Brierley, Philip and Floyd F. Smith, 1944
- Kniphofia tucki  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium davidi  
Brierley, Philip, 1940



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## V. TULIP BREAKING

- Lilium hansonii*  
Brierley, Philip, 1940  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium henryi*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium humboldtii*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium martagon* var. *album* x *Lilium hansonii*  
Brierley, Philip, 1940
- Lilium nepalense*  
Brierley, Philip, 1940
- Lilium pardalinum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium pardalinum* var. *giganteum* \*  
Brierley, Philip, 1940
- Lilium parryi*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium parvum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium sargentiae*  
Brierley, Philip and Floyd F. Smith, 1944
- Lilium superbum*  
Brierley, Philip and Floyd F. Smith, 1944
- Lycopersicon esculentum*  
McWhorter, F.P., 1935
- Maranta bicolor*  
Brierley, Philip and Floyd F. Smith, 1944
- Medeola virginica*  
Brierley, Philip and Floyd F. Smith, 1944
- Moraea iridioides*  
Brierley, Philip and Floyd F. Smith, 1944
- Musa cavendishii*  
Brierley, Philip and Floyd F. Smith, 1944
- Musa textilis*  
Brierley, Philip and Floyd F. Smith, 1944
- Muscari polyanthum*  
Brierley, Philip and Floyd F. Smith, 1944
- Narcissus poeticus*  
McWhorter, F.P., 1935
- Narcissus pseudo-narcissus*  
Brierley, Philip and Floyd F. Smith, 1944
- Nicotiana tabacum*  
Brierley, Philip and S.P. Doolittle, 1940
- Nothoscordum fragrans*  
Brierley, Philip and Floyd F. Smith, 1944
- Ophiopogon jaburan*  
Brierley, Philip and Floyd F. Smith, 1944
- Ornithogalum thyrsoides*  
Brierley, Philip and Floyd F. Smith, 1944  
Smith, Floyd F. and Philip Brierley, 1944
- Petunia hybrida*  
McWhorter, F.P., 1935  
Tompkins, C.M., 1939
- Philodendron* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Rhoeo discolor*  
Brierley, Philip and Floyd F. Smith, 1944
- Saccharum officinarum*  
Brierley, Philip and Floyd F. Smith, 1944
- Sansevieria zeylanica*  
Brierley, Philip and Floyd F. Smith, 1944
- Scilla hispanica* (*Scilla campanulata*)  
Brierley, Philip and Floyd F. Smith, 1944
- Secale cereale*  
Brierley, Philip and Floyd F. Smith, 1944
- Smilacina racemosa*  
Brierley, Philip and Floyd F. Smith, 1944
- Smilax* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Tigridia pavonia*  
Brierley, Philip and Floyd F. Smith, 1944
- Tricyrtis hirta*  
Brierley, Philip and Floyd F. Smith, 1944
- Trillium* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- Tritonia crocata*  
Brierley, Philip and Floyd F. Smith, 1944
- Tropaeolum majus*  
McWhorter, F.P., 1935
- Uvularia sessilifolia*  
Brierley, Philip and Floyd F. Smith, 1944

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## V. TULIP BREAKING

- Vallota purpurea*  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca baccata*  
Brierley, Philip and Floyd F. Smith, 1944
- Yucca flaccida*  
Brierley, Philip and Floyd F. Smith, 1944
- Zantedeschia aethiopica*  
Brierley, Philip and Floyd F. Smith, 1944
- Zea mays*  
Brierley, Philip and Floyd F. Smith, 1944
- Zephyranthes* spp.  
Brierley, Philip and Floyd F. Smith, 1944
- V. TURNIP CRINKLE Broadbent and Blencowe 1955
- Amaranthus caudatus*  
Broadbent, L. and G.D. Heathcote, 1958
- Beta vulgaris*  
Broadbent, L. and G.D. Heathcote, 1958
- Corydalis lutea*  
Broadbent, L. and G.D. Heathcote, 1958
- Nicotiana cleavelandi*  
Broadbent, L. and G.D. Heathcote, 1958
- Nicotiana glutinosa*  
Broadbent, L. and G.D. Heathcote, 1958
- Papaver rhoeas*  
Broadbent, L. and G.D. Heathcote, 1958
- Phaseolus vulgaris*  
Broadbent, L. and G.D. Heathcote, 1958
- Vicia faba*  
Broadbent, L. and G.D. Heathcote, 1958
- Viola tricolor* var. *hortensis*  
Broadbent, L. and G.D. Heathcote, 1958
- V. TURNIP MOSAIC Gardner and Kendrick 1921;  
Schultz 1921; Chamberlain 1936; Tompkins 1938
- Alyssum maritimum*  
Tompkins, C.M., 1938, 1939  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Alyssum saxatile*  
Tompkins, C.M., 1939
- Antirrhinum majus*  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- Apium graveolens*  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- Arabis albida*  
LeBeau, Francis J. and J.C. Walker, 1945  
Tompkins, C.M., 1939
- Atropa belladonna*  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Avena sativa*  
Tompkins, C.M. and H. Rex Thomas, 1938
- Barbarea vulgaris*  
Pound, Glenn S., 1948  
Walker, J.C., Francis J. LeBeau and Glenn S. Pound, 1945
- Begonia semperflorens*  
Tompkins, C.M., 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- Bellis perennis*  
Tompkins, C.M., 1938, 1939  
Tompkins, C.M. and H. Rex Thomas, 1938
- Beta vulgaris*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Dale, W.T., 1948
- Beta vulgaris* var. *cicla*  
Berkeley, G.H. and J.H. Tremaine, 1954  
Dale, W.T., 1948
- Brassica adpressa*  
Tompkins, C.M., 1939
- Brassica campestris* var. *napobrassica*  
Tompkins, C.M., 1939
- Brassica hirta* (*Brassica alba*)  
Tompkins, C.M., 1938  
Tompkins, C.M. and H. Rex Thomas, 1938
- Brassica integrifolia* var. *chevalieri* \*  
Tompkins, C.M., 1938  
Tompkins, C.M. and H. Rex Thomas, 1938

## VIRUS

- V. TURNIP MOSAIC (cont.)
- Brassica juncea* (*Brassica japonica*)  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Brassica kaber* (*Brassica arvensis*)  
Tompkins, C. M., 1938
- Brassica napus*  
Tompkins, C. M., 1938, 1939
- Brassica nigra*  
Tompkins, C. M., 1938
- Brassica oleracea* var. *acephala*  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1938, 1939
- Brassica oleracea* var. *botrytis*  
Dale, W. T., 1948  
LeBeau, Francis J. and J. C. Walker, 1945  
Pound, Glenn S., 1948  
Severin, Henry H. P. and C. M. Tompkins, 1950  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1938, 1939
- Brassica oleracea* var. *capitata*  
Clayton, E. E., 1930  
Dale, W. T., 1948  
LeBeau, Francis J. and J. C. Walker, 1945  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1939
- Brassica oleracea* var. *caulorapa*  
Dale, W. T., 1948  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1938, 1939
- Brassica oleracea* var. *gemmaifera*  
LeBeau, Francis J. and J. C. Walker, 1945  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1938, 1939
- Brassica oleracea* var. *gongylodes*  
LeBeau, Francis J. and J. C. Walker, 1945
- Brassica oleracea* var. *viridis*  
LeBeau, Francis J. and J. C. Walker, 1945
- Callistephus chinensis*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Campanula medium*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Capsicum frutescens* var. *cerasiforme*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Centaurea nigra*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Cheiranthus allionii*  
LeBeau, Francis J. and J. C. Walker, 1945
- Cheiranthus cheiri*  
Tompkins, C. M., 1938, 1939
- Chenopodium album*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Chenopodium murale*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Chrysanthemum coronarium*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Chrysanthemum maximum*  
Tompkins, C. M., 1939
- Clarkia elegans*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Cucumis sativus*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Cuscuta californica*  
Bennett, C. W., 1944
- Cuscuta campestris*  
Bennett, C. W., 1944
- Cuscuta subinclusa*  
Bennett, C. W., 1944

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- V. TURNIP MOSAIC (cont.)
- Datura stramonium*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Delphinium ajacis*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Delphinium cultorum*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Dianthus barbatus*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Dianthus caryophyllus*  
Tompkins, C. M., 1939
- Dimorphotheca aurantiaca*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Dolichos lablab*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Gaillardia pulchella* var. *picta*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Gerbera jamesonii* var. *transvaalensis*  
Tompkins, C. M., 1939
- Geum chilense*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Glycine max*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Godetia grandiflora*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Gypsophila paniculata*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Heliotropium peruvianum*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Hesperis matronalis*  
LeBeau, Francis J. and J. C. Walker, 1945
- Hibiscus esculentus*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Ipomoea purpurea*  
Tompkins, C. M., 1939  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Lactuca sativa* var. *capitata*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Limonium latifolium*  
Tompkins, C. M., 1938
- Lobelia hybrida*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Lunaria annua*  
Tompkins, C. M., 1939
- Lycopersicon esculentum* var. *vulgare*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Lycopersicon pimpinellifolium*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Malcomia maritima*  
Tompkins, C. M., 1939
- Matthiola bicornis*  
Tompkins, C. M., 1938
- Matthiola incana*  
Tompkins, C. M., 1939
- Matthiola incana* var. *annua*  
LeBeau, Francis J. and J. C. Walker, 1945
- Mirabilis jalapa*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Myosotis alpestris*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938

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## V. TURNIP MOSAIC (cont.)

- Nicotiana alata* var. *grandiflora*  
Dale, W. T., 1948
- Nicotiana chinensis*  
Dale, W. T., 1948
- Nicotiana glauca*  
Bennett, C. W., 1944
- Nicotiana glutinosa*  
Dale, W. T., 1948  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1939
- Nicotiana langsdorffii*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Nicotiana repanda*  
LeBeau, Francis J. and J. C. Walker, 1945
- Nicotiana rustica*  
Dale, W. T., 1948  
LeBeau, Francis J. and J. C. Walker, 1945
- Nicotiana rustica* var. *humulis* \*  
Tompkins, C. M., 1938, 1939
- Nicotiana sanderae*  
Dale, W. T., 1948
- Nicotiana sylvestris*  
Dale, W. T., 1948  
LeBeau, Francis J. and J. C. Walker, 1945
- Nicotiana tabacum*  
LeBeau, Francis J. and J. C. Walker, 1945  
Sylvester, Edward S., 1953  
Takahashi, William N., 1949  
Tompkins, C. M., 1938
- Nicotiana tabacum* x *Nicotiana glutinosa*  
LeBeau, Francis J. and J. C. Walker, 1945
- Papaver nudicaule*  
Tompkins, C. M. and H. Rex Thomas, 1938
- Papaver orientale*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Pelargonium zonale*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Penstemon barbatus*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Petunia hybrida*  
Tompkins, C. M. and H. Rex Thomas, 1938
- Phaseolus coccineus*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Pisum sativum*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Raphanus sativus*  
Berkeley, G. H. and J. H. Tremaine, 1954  
Berkeley, G. H. and M. Weintraub, 1952  
Gardner, Max W. and James B. Kendrick, 1921  
Tompkins, C. M., 1938, 1939
- Raphanus sativus* var. *longipinnatus* \*  
Tompkins, C. M., 1939
- Raphanus sativus* var. *radicula*  
Dale, W. T., 1948
- Reseda odorata*  
Tompkins, C. M. and H. Rex Thomas, 1938
- Rheum raphaniticum*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Ricinus communis*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Salvia farinacea*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Scabiosa atropurpurea*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Senecio cruentus*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Solanum aviculare*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938

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## V. TURNIP MOSAIC (cont.)

- Solanum dulcamara*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum integrifolium*  
Pound, Glenn S., 1948  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum pseudocapsicum*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Solanum tuberosum*  
Schultz, E. S., 1921  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Spinacia oleracea*  
LeBeau, Francis J. and J. C. Walker, 1945  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Tagetes erecta*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Tagetes patula*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Taraxacum officinale*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Tropaeolum majus*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Verbena hybrida*  
Tompkins, C. M., 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Vicia faba*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Vigna sinensis*  
Walker, J. C., Francis J. LeBeau and Glenn S. Pound, 1945
- Vigna unguiculata*  
Dale, W. T., 1948
- Viola cornuta*  
Tompkins, C. M., 1939
- Viola tricolor*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- Zea mays*  
Tompkins, C. M., 1938, 1939  
Tompkins, C. M. and H. Rex Thomas, 1938
- V. TURNIP ROSETTE \*
- Amaranthus caudatus*  
Broadbent, L. and G. D. Heathcote, 1958
- Beta vulgaris*  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica hirta* (*Brassica alba*)  
Broadbent, L. and G. D. Heathcote, 1958
- Brassica nigra*  
Broadbent, L. and G. D. Heathcote, 1958
- Capsella bursa-pastoris*  
Broadbent, L. and G. D. Heathcote, 1958
- Celosia argentea* var. *plumosa* \*  
Broadbent, L. and G. D. Heathcote, 1958
- Chenopodium album*  
Broadbent, L. and G. D. Heathcote, 1958
- Chenopodium amaranticolor*  
Broadbent, L. and G. D. Heathcote, 1958
- Cucumis sativus*  
Broadbent, L. and G. D. Heathcote, 1958
- Gomphrena globosa*  
Broadbent, L. and G. D. Heathcote, 1958
- Lycopersicon esculentum*  
Broadbent, L. and G. D. Heathcote, 1958
- Nicotiana glutinosa*  
Broadbent, L. and G. D. Heathcote, 1958
- Nicotiana tabacum*  
Broadbent, L. and G. D. Heathcote, 1958
- Phaseolus vulgaris*  
Broadbent, L. and G. D. Heathcote, 1958
- Vicia faba*  
Broadbent, L. and G. D. Heathcote, 1958

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- V. TURNIP YELLOW MOSAIC Markham and Smith 1946  
*Chenopodium album*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Chenopodium amaranticolor*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Cucumis sativus*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Datura stramonium*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Gomphrena globosa*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Nicotiana bigelovii* var. *multivalvis* \*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Nicotiana clevelandii*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Nicotiana glutinosa*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Nicotiana tabacum*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Papaver rhoeas*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Phaseolus vulgaris*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Tetragonia expansa*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Vicia faba*  
 Broadbent, L. and G.D. Heathcote, 1958  
*Viola tricolor* var. *hortensis*  
 Broadbent, L. and G.D. Heathcote, 1958
- V. VACCINIUM FALSE BLOSSOM  
*Begonia* spp.  
 Kunkel, L.O., 1945  
*Callistephus chinensis*  
 Kunkel, L.O., 1945  
*Cuscuta campestris*  
 Costa, A.S., 1944  
 Kunkel, L.O., 1943, 1945  
*Medicago sativa*  
 Costa, A.S., 1944  
 Kunkel, L.O., 1945  
*Prunus persica* (*Amygdalus persica*)  
 Kunkel, L.O., 1945
- V. VACCINIUM RING SPOT Hutchinson and Varney 1954  
*Cuscuta* spp.  
 Hilborn, M. T. and Reiner Bonde, 1956
- V. VACCINIUM STUNT Wilcox 1942  
*Cuscuta subinclusa*  
 Hutchinson, M. T., A. C. Goheen and E. H. Varney, 1955
- V. VINCA YELLOWS \*  
*Cuscuta* spp.  
 Maramorosch, Karl, 1957  
*Cuscuta subinclusa*  
 Maramorosch, Karl, 1956
- V. WATERMELON MOSAIC Anderson 1954  
*Capsicum frutescens* (*Capsicum annuum*)  
 Anderson, C.W., 1954  
*Datura stramonium*  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Momordica charantia*  
 Anderson, C.W., 1954  
*Nicotiana glutinosa*  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Nicotiana rustica*  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Nicotiana tabacum*  
 Anderson, C.W., 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Vigna sinensis*  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956  
*Zinnia elegans*  
 Anderson, C.W., 1954  
 Lindberg, G.D., D.H. Hall and J.C. Walker, 1956
- V. WHEAT SPOT MOSAIC \*  
*Avena fatua*  
 Slykhuis, John T., 1956

## VIRUS

- V. WHEAT SPOT MOSAIC \* (cont.)  
*Avena sativa*  
 Slykhuis, John T., 1956  
*Bromus japonicus*  
 Slykhuis, John T., 1956  
*Bromus secalinus*  
 Slykhuis, John T., 1956  
*Bromus tectorum*  
 Slykhuis, John T., 1956  
*Digitaria sanguinalis*  
 Slykhuis, John T., 1956  
*Echinochloa crus-galli*  
 Slykhuis, John T., 1956  
*Panicum capillare*  
 Slykhuis, John T., 1956  
*Panicum miliaceum*  
 Slykhuis, John T., 1956  
*Secale cereale*  
 Slykhuis, John T., 1956
- V. WHEAT STREAK MOSAIC McKinney 1944, 1953  
*Agropyron amurense*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron ciliare* \*  
 Slykhuis, J. T., 1952  
*Agropyron cristatum*  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J. T., 1952, 1955  
*Agropyron dasysatchyum*  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J. T., 1952  
*Agropyron desertorum*  
 Slykhuis, J. T., 1952  
*Agropyron divaricatum*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron elongatum*  
 Fellows, Hurley and John W. Schmidt, 1953  
 Slykhuis, J. T., 1952, 1955  
*Agropyron inerme*  
 Slykhuis, J. T., 1952  
*Agropyron intermedium*  
 Fellows, Hurley and John W. Schmidt, 1953  
 Slykhuis, J. T., 1952, 1955  
*Agropyron junceum*  
 Slykhuis, J. T., 1952  
*Agropyron pertenuae*  
 Slykhuis, J. T., 1952  
*Agropyron repens*  
 McKinney, H.H. and W.J. Sando, 1951  
 Slykhuis, J. T., 1952, 1955  
*Agropyron rigidum*  
 Slykhuis, J. T., 1952  
*Agropyron semicostatum*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron sibiricum*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron smithii*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
 Slykhuis, John T., 1955  
*Agropyron spicatum*  
 McKinney, H.H. and W.J. Sando, 1951  
*Agropyron trachycaulum*  
 Slykhuis, J. T., 1952, 1955  
*Agropyron trichophorum*  
 Slykhuis, J. T., 1952  
*Agrostis alba*  
 Slykhuis, John T., 1955  
*Allium cepa*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Alopecurus pratensis*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Amaryllis* spp.  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Andropogon hallii*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Andropogon ischaemum*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Andropogon sibiricus*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Arrhenatherum elatius*  
 Sill, W.H., Jr. and Patrick C. Agusiobo, 1955  
*Avena fatua*  
 Slykhuis, J. T., 1952

## VIRUS

## V. WHEAT STREAK MOSAIC (cont.)

- Belamcanda chinensis*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Bromus carinatus*  
McKinney, H. H., 1949
- Bromus inermis*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952, 1955
- Buchloe dactyloides*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Canna* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Chenopodium album*  
Meiners, Jack P. and H. H. McKinney, 1954
- Codiaeum variegatum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Coix lacryma-jobi*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Convallaria majalis*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Cortaderia selloana*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Crocus* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Cyperus alternifolius*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Cyperus esculentus*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Cypripedium* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Dactylis glomerata*  
Finley, A. M., 1957  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Echinochloa crus-galli*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Festuca elatior*  
Slykhuis, John T., 1955
- Festuca rubra*  
Slykhuis, J. T., 1952, 1955
- Ficus elastica*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Gladiolus* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Hordeum jubatum*  
Slykhuis, J. T., 1952, 1955
- Iris* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Kalanchoe* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Lilium candidum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Maranta bicolor*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Musa* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Muscari armeniacum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Orchis* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Ornithogalum* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Oryza sativa*  
Kahn, Robert P. and Ottie J. Dickerson, 1957
- Panicum maximum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Panicum miliaceum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952
- Panicum virgatum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Pedilanthus tithymaloides*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Pennisetum glaucum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Peperomia* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Phalaris arundinacea*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952
- Phalaris arundinacea* x *Phalaris tuberosa*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Philodendron* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955

## VIRUS

## V. WHEAT STREAK MOSAIC (cont.)

- Phleum pratense*  
Slykhuis, J. T., 1952, 1955
- Poa pratensis*  
Slykhuis, J. T., 1952, 1955
- Polygonatum* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Rhoeo discolor*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Saccharum officinarum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sagittaria montevidensis*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sansevieria thyrsoiflora*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Secale cereale*  
Slykhuis, J. T., 1952
- Setaria lutescens*  
Slykhuis, J. T., 1952, 1955
- Smilacina* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sorghastrum nutans*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sorghum alnum*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sorghum halepense*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sorghum versicolor*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Sorghum vulgare*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952
- Sorghum vulgare* var. *saccharatum*  
Finley, A. M., 1957
- Sorghum vulgare* var. *sudanense*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Tulipa* spp.  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Typha latifolia*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Yucca glauca*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- Zea mays*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955  
Slykhuis, J. T., 1952
- Zebrina pendula*  
Sill, W. H., Jr. and Patrick C. Agusiobo, 1955
- V. WISCONSIN PEA STREAK Hagedorn and Walker 1949
- Cucumis sativus*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Datura stramonium*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Lupinus angustifolius*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Lycopersicon esculentum*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Medicago sativa*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954  
Skotland, C. B. and D. J. Hagedorn, 1954
- Nicotiana glutinosa*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Nicotiana rustica*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Nicotiana tabacum*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Phaseolus vulgaris*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Trifolium repens*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Vicia faba* var. *major* \*  
Hagedorn, D. J. and J. C. Walker, 1949
- Vicia faba* var. *minor*  
Hagedorn, D. J. and J. C. Walker, 1949
- Vicia sativa*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954
- Vigna sinensis*  
Hagedorn, D. J. and J. C. Walker, 1949, 1954



## ABUTILONVIRUS

Abutilonvirus variegans, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor abutilon, Holmes 1939b, 50, q.v.

ACARINOPHILUS, Ryzhkov 1952, 466.  
(Gen. Vir.) (Val. Pub., Leg.)  
Dacavirus, Hansen 1956, 130.  
Type sp. (Subs. des. Barkley 1960, 68):  
Acarinophilus antholysatus, Ryzhkov 1952, 466.

Acarinophilus antholysatus, Ryzhkov 1952, 466.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
Acrogenus ribis, Holmes 1939b, 122, q.v.  
Comment: Type species of genus Acarinophilus,  
Ryzhkov 1952, 466.

ACAVIRACEAE, Hansen 1956, 130.  
(Fam. Vir.) (Val. Pub., Illeg.: Rule 3)  
Comment: Includes one collective genus:  
Dacavirus, Hansen 1956, 130.

ACROGENUS, Holmes 1939, 110.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): Acrogenus solani, Holmes  
1939, 111.

ACROGENUS, Holmes 1939a, 435.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Acrogenus, Holmes 1939b, 110, q.v.  
Type sp. (orig. des.): Acrogenus solani, Holmes  
1939a, 435.

ACROGENUS, Holmes 1939b, 110; McKinney 1944a, 152.  
(Gen. Vir.) (Val. Pub., Leg.)  
Acrogenus, Holmes 1939a, 435.  
Aerogenodes, Bitancourt 1953, 453.  
Mexevirus, Hansen 1956, 128.  
Type sp. (orig. des.): Acrogenus solani, Holmes  
1939b, 111.

Acrogenus ribis, Holmes 1939b, 112.  
(Sp. Vir.) (Val. Pub., Leg.)  
Acarinophilus antholysatus, Ryzhkov 1952, 466.  
Type species of genus Acarinophilus, Ryzhkov 1952, 466.  
Dacavirus ribis, (Holmes) Hansen 1956, 130.  
Mexevirus, Hansen 1956, 130.  
Ribesvirus senticosum, Roland 1959, 128.

Acrogenus rosettae, "Holmes" in Smith 1957, 24.  
in syn. (Sp. Vir.) (Not Val. Pub., Rule 12d)  
Acrogenus rosettae, van Katwijk 1953, 235.

Acrogenus rosettae, van Katwijk 1953, 235.  
(Sp. Vir.) (Val. Pub., Leg.)  
Pyrusvirus rosettans, Roland 1959, 127.

Acrogenus solani, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Acrogenus solani, Holmes 1939b, 111, q.v.  
Type species of genus Acrogenus, Holmes 1939b, 110.  
Comment: Type species of genus Acrogenus, Holmes  
1939a, 435.

Acrogenus solani, Holmes 1939b, 111.  
(Sp. Vir.) (Val. Pub., Leg.)  
Mexevirus solani, (Holmes) Hansen 1956, 128,  
type species of genus Mexevirus, Hansen 1956, 128.  
Solanumvirus coleopterotranslatum, Roland 1952b, 53.  
Solanumvirus fusifaciens, Kohler 1952, 51.  
Solanumvirus fusiformis, (sic) Roland 1959, 129.  
Comment: Type species of genus Acrogenus, Holmes  
1939b, 110.

Acrogenus solani var. severus, Holmes 1939b, 112.  
(Var. Vir.) (Val. Pub., Leg.)

Acrogenus solani var. vulgaris, Holmes 1939b, 111.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of Acrogenus solani, Holmes  
1939b, 111.

ADELANODES, Bitancourt 1953, 453.  
(Gen. Vir.) (Not Val. Pub.: Rule 12c2)  
Adelonosus, Brierley and Smith 1944, 551, q.v.

ADELONOSUS, Brierley and Smith 1944, 551.  
(Gen. Vir.) (Val. Pub., Leg.)  
Adelanodes, Bitancourt 1953, 453.  
Type sp. (orig. des.): Adelonosus lillii, Brierley and  
Smith 1944, 551.

Adelonosus lillii, Brierley and Smith 1944, 551.  
(Sp. Vir.) (Val. Pub.: Leg.)  
Liliumvirus occultum, Roland 1959, 129.  
Comment: Type species of genus Adelonosus, Brierley  
and Smith 1944, 551.

AGALLIOPHILUS, Ryzhkov 1952, 466.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Aureogenus, Black 1944, 141, q.v.  
Type sp. (monotype): Agalliophilus tuberosi, Ryzhkov  
1952, 466.

Agalliophilus tuberosi, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub., : Rule 14a2)  
Marmor vastans, Holmes 1939b, 94, q.v.  
Aureogenus vastans, (Holmes) Black 1944, 141, q.v.,  
type species of genus Aureogenus, Black 1944, 141.

## AGROPYRUMVIRUS

Agropyrumvirus maculans, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor agropyri, McKinney 1944b, 326, q.v.

ALEVIRACEAE, Hansen 1956, 129.  
(Fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes collective genera  
Malevirus, Hansen 1956, 129 and  
Dalevirus, Hansen 1956, 129.

## ALLIUMVIRUS

Alliumvirus flavorugans, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cepae, Holmes 1939b, 66, q.v.

ANNULACEAE, Holmes 1939b, 97.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus: Annulus, Holmes 1939b, 97.

## ANEMONEVIRUS

Anemonevirus deformans, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Galla anemones, Holmes 1939b, 108, q.v.

ANNULUS, Holmes 1939a, 435.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus, Holmes 1939b, 97, q.v.  
Type sp. (orig. des.): Annulus tabaci, Holmes 1939a,  
435.

ANNULUS, Holmes 1939b, 97.  
(Gen. Vir.) (Val. Pub., Leg.)  
Annulus, Holmes 1939a, 435.  
Minglobus, Hansen 1956, 127.  
Type sp. (orig. des.): Annulus tabaci, Holmes 1939b,  
98.

Annulus apertus, Holmes 1948, 1214.  
(Sp. Vir.) (Val. Pub.: Leg.)

Annulus behrensianus, Schmelzer 1957, 311.  
(Sp. Vir.) (Val. Pub., Leg.)

Annulus bergerac, Holmes 1939, 102.  
Source: Bergerac-ring spot of tobacco (Nicotiana  
tabacum).  
(B. '48, 1216)

Annulus cerasi, Hildebrand 1944, 1003.  
(Sp. Vir.) (Val. Pub., Leg.)  
Prunivir circummaculatum, Cochran et al. 1951, 71.  
Prunivir circummaculatum, "Fawcett" in Smith 1957,  
342.  
Persicavirus anulolum, Roland 1959, 193.

Annulus delphinii, Holmes 1948, 1216.  
(Sp. Vir.) (Val. Pub., Leg.)

- Annulus dubius, (Holmes) Holmes 1948, 1214.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor dubium, Holmes 1939a, 434.  
Marmor dubium, Holmes 1939b, 42, q.v.  
Solanophilus tuberosi, Ryzhkov 1952, 465,  
type species of genus Solanophilus, Ryzhkov 1952, 465.  
Solanum-virus deformans, Kohler 1952a, 294, type  
species of genus Solanum-virus, Kohler 1952a, 465.  
Minflexus solani, Hansen 1956, 127,  
type species of genus Minflexus, Hansen 1956, 127.  
Minvirus solani, Hansen 1958, 222.  
Type var. (orig. des.): Annulus dubius var. vulgaris,  
Holmes 1948, 1215.
- Annulus dubius var. annulus, (Holmes) Holmes 1948, 1215.  
(Va. Vir.) (Val. Pub., Leg.)  
Marmor dubium var. annulus, Holmes 1939a, 435.  
Marmor dubium var. annulus, Holmes 1939b, 44, q.v.  
Solanumvirus anulolum, Kohler 1952b, 51.  
Solanum virus contactutranslatum, Roland 1952, 55.  
Solanumvirus X-nominatum, Roland 1959, 129.
- Annulus dubius var. flavus, (Holmes) Holmes 1948, 1216.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor dubium var. flavum, Holmes 1939b, 46, q.v.
- Annulus dubius var. obscurus, (Holmes) Holmes 1948,  
(Var. Vir.) (Val. Pub., Leg.) 1216.  
Marmor dubium var. obscurum, Holmes 1939b, 46, q.v.
- Annulus dubius var. vulgaris, (Holmes) Holmes 1948,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7) 1215.  
Marmor dubium var. vulgaris, Holmes 1939b, 42, q.v.  
Comment: Type variety of species Annulus dubius,  
(Holmes) Holmes 1948, 1214.
- Annulus lamii, Lovisolo 1957, 131.  
(Sp. Vir.) (Val. Pub., Leg.)
- Annulus orae, Holmes 1939b, 103.  
(Sp. Vir.) (Val. Pub., Leg.)  
Tractus orae, (Holmes) Valteau 1940, 826, q.v.,  
type species of genus Tractus, Valteau 1940, 826.  
Nicotianavirus vulnerans, Roland 1959, 130.
- Annulus orae var. phaseoli, Thomas and Zaumeyer 1950  
(Var. Vir.) (Val. Pub., Leg.) 845.
- Annulus pruni, Christoff 1958, 383.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor persicae, Holmes 1939b, 81, q.v.  
Flavimacula persicae, (Holmes) McKinney 1944a, 149,  
q.v.,  
type species of genus Flavimacula, McKinney 1944a,  
149.
- Annulus pyri, Christoff 1958, 424.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor dilucidum, van Katwijk according to Baumann  
1958, 126, 132.
- Annulus tabaci, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus tabaci, Holmes 1939b, 98, q.v.
- Annulus tabaci, Holmes 1939b, 98.  
(Sp. Vir.) (Val. Pub., Leg.)  
Annulus tabaci, Holmes 1939a, 435.  
Marmor anularium, McKinney 1944b, 327.  
Minivirus nico-orbis, Hansen 1948, 222.  
Minglobus nico-orbis, Hansen 1956, 127.  
Nicotianavirus anulolum, Roland 1959, 130.  
Type sp. of genus Annulus, Holmes 1939b, 97.  
Source: Ring spot of tobacco (Nicotiana tabacum)
- Annulus tabaci var. auratus, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus tabaci var. auratus, Holmes 1939a, 100.
- Annulus tabaci var. cyamopsis, Cooper 1949, 356.  
(Var. Vir.) (Val. Pub., Leg.)
- Annulus tabaci var. kentuckiensis, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus tabaci var. kentuckiensis, Holmes 1939b, 99.
- Annulus tabaci var. kentuckiensis, Holmes 1939b, 99.  
(Var. Vir.) (Val. Pub., Leg.)  
Annulus tabaci var. kentuckiensis, Holmes 1939a, 435.  
Source: Green ring spot of tobacco (Nicotiana tabacum)
- Annulus tabaci var. pennsylvanicus, Tall, Price and  
Wertman 1949, 288.  
(Var. Vir.) (Val. Pub., Leg.)
- Annulus tabaci var. virginensis, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus tabaci var. virginensis, Holmes 1939b, 98,  
q.v.
- Annulus tabaci var. virginensis, Holmes 1939b, 98.  
(Var. Vir.) (Val. Pub., Leg.)  
Annulus tabaci var. virginensis, Holmes 1939a, 435.  
Marmor anularium, McKinney 1944, 327.  
Type var. of sp. Annulus tabaci, Holmes 1939b, 98.
- Annulus wellmanii, Anderson 1954a, 91.  
(Sp. Vir.) (Val. Pub., Leg.)
- Annulus zonatus, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus zonatus, Holmes 1939b, 101, q.v.
- Annulus zonatus, Holmes 1939b, 101.  
(Sp. Vir.) (Val. Pub., Leg.)  
Annulus zonatus, Holmes 1939a, 435.
- APHICHORDOIDEAE, Hansen 1956, 123.  
(Sub fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes Maphichorda, Hansen 1956, 123.
- APHIDOLPHILUS, Ryzhkov 1952, 465.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Murialba, Valteau 1940, 823, q.v.  
Type sp. (subs. des.: Barkley 1958, 124):  
Aphidophilus cucumeris, (Holmes) Ryzhkov 1952, 465.
- Aphidophilus betae, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor betae, Holmes 1939b, 72, q.v.
- Aphidophilus cruciferae, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor brassicae, Holmes 1939b, 70, q.v.
- Aphidophilus cruciferae, Ryzhkov in Klinkowski and  
Uschdraweit 1958, 84.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor brassicae, Holmes 1939b, 70, q.v.
- Aphidophilus cucurbitae, Kohler and Klinkowski 1954, 677.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
Murialba cucumeris, (Holmes) Valteau 1940, 823, q.v.
- Aphidophilus phaseoli, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor phaseoli, Holmes 1938b, 87, q.v.
- Aphidophilus tuberosi, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor upsilon, (Holmes) Holmes 1948, 1172, q.v.
- Aphidophilus tulipae, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor tulipae, Holmes 1939b, 52, q.v.
- APHIDOPHILACEAE, Ryzhkov 1952, 466.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus: Aphidophilus, Ryzhkov (Aphidaephilaceae,  
Sukhov, p. 264.)
- APHIGLOBOIDEAE, Hansen 1956, 123, 124.  
(Subfam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes Maphiglobus, Hansen 1956, 123,  
124.
- APHIVIRACEAE, Hansen 1956, 122.  
(Fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes 3 subfamilies:  
Aphiflexoideae, Hansen 1956, 123,  
Aphichordoideae, Hansen 1956, 123,  
Aphigloboideae, Hansen 1956, 124,  
and 2 collective genera: Maphivirus, Hansen 1956, 122  
and Daphivirus, Hansen 1956, 123.



- APHIVIRALES, Hansen 1956, 122.  
(Ord. Vir.) (Val. Pub., Leg.)  
Comment: Includes the family Aphiviraceae, Hansen 1956, 122.
- APIUMVIRUS
- Apiumvirus maculans, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor umbelliferarum, Holmes 1939b, 67, q.v.
- ARACHISVIRUS
- Arachisvirus rosettans, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor arachidis, Holmes 1939b, 67, q.v.
- ARCANA, Thomas and Rawlins 1951d, 189.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 12, Principle 1 (2))  
Comment: See Editorial Board 1953, 114.
- Arcana caelestia, Thomas and Rawlins 1951d, 189.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 12, Principle 1 (2))  
Comment: Dr. Thomas in correspondence states that "my binomials are not intended as usable names for the corresponding viruses." See Editorial Board 1953, 114.
- ARTHROPODOPHAGA, Krieg 1961, 42.  
(Class Vir.) (Val. Pub., Leg.)
- ARTHROPODOPHAGI, Holmes 1939a, 436.  
(Class, Vir.) (Val. Pub., Leg.)  
Crystallobiotae, Ryzhkov 1950, 14.  
Thymonucleoproteinales, Zuhov 1956, 264.  
Pseudocrystallinae, Ryzhkov 1952, 465.
- AUREOGENUS, Black 1944, 141.  
(Gen. Vir.) (Val. Pub., Leg.)  
Solanivir, Fawcett 1940, 560.  
Agalliophilus, Ryzhkov 1952, 466.  
Mecicavirus, Hansen 1956, 124.  
Aureogenusvirus, Krieg and Huger 1960, 404.  
Aureogenusvirus, Krieg 1961, 145.  
Type sp. (orig. des.): Aureogenus vastans, Black 1944, 141.
- Aureogenus clavifolium, Black 1944, 141.  
(Sp. Vir.) (Val. Pub., Leg.)  
Trifoliumvirus clavifoliatum, Roland 1959, 128.  
Aureogenusvirus clavifolium, (Black) Krieg 1961, 146.
- Aureogenus magnivena, Black 1944, 144.  
(Sp. Vir.) (Val. Pub., Leg.)  
Dacicavirus tumefaciens, Hansen 1956, 125.  
Trifoliumvirus nervicrassans, Roland 1959, 128.  
Aureogenusvirus magnivena, (Black) Krieg and Huger 1960, 404.  
Aureogenusvirus magnivena, (Black) Krieg 1961, 145.
- Aureogenus vastans, Black 1944, 141.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor vastans, Holmes 1939b, 94, q.v.  
Solanivir vastans, Fawcett 1940, 560, type species of genus, Solanivir, Fawcett 1940, 560.  
Agalliophilus tuberosa, Ryzhkov 1952, 466, type species of genus Agalliophilus, Ryzhkov 1952, 466.  
Solanumvirus vastans, (Holmes) Kohler 1952, 51.  
Solanumvirus aceratogalliatranslatum, (sic) Roland 1952, 53.  
Mecicavirus solani, Hansen 1956, 124, type species of genus Mecicavirus, Hansen 1956, 124.  
Aureogenusvirus vastans, (sic) Krieg 1961, 146, type species of genus Aureogenusvirus, Krieg 1961, 146.  
Type var. (subs. des. Holmes 1948, 1156):  
Aureogenus vastans var. vulgare, Black 1944, 141.  
Comment: Type species of genus Aureogenus, Black 1944, 141.
- Aureogenus vastans var. agalliae, (Black) Black 1944, 141.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor vastans var. agalliae, Black 1941, 233.
- Aureogenus vastans var. lethale, (Black) Holmes 1948, 1156.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor vastans var. lethale, Black 1940, 391.
- Aureogenus vastans var. vulgare, (Black) Black 1944, (Var. Vir.) (Val. Pub., Illeg.: Rule 7) 141.  
Marmor vastans var. vulgare, Black 1940, 391.  
Comment: Type variety of species Aureogenus vastans, (Holmes) Black 1944, 141.
- AUREOGENUSVIRUS, Krieg 1961, 145.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Aureogenus, Black 1944, 141, q.v.  
Type sp. (implied): Aureogenusvirus vastans, (sic) (Holmes) Krieg 1961, 146.
- AUREOGENUSVIRUS, Krieg and Huger 1960a, 404.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a3)  
Aureogenus, Black 1944, 141, q.v.
- Aureogenusvirus clavifolium, (Black) Krieg 1961, 146.  
(Ap. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Aureogenus clavifolium, Black 1944, 141, q.v.
- Aureogenusvirus magnivena, (Black) Krieg 1961, 145.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Aureogenus magnivena, Black 1944, 144, q.v.
- Aureogenusvirus magnivena, (Black) Krieg and Huger 1960, 404.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Aureogenus magnivena, Black 1944, 144, q.v.
- Aureogenusvirus vestans, (sic) Krieg 1961, 146.  
(Ap. Vir.) (Val. Pub., Illeg.: Rules 23, 23a)  
Marmor vastans, Holmes 1939b, 94, q.v.  
Aureogenus vastans, (Holmes) Black 1944, 141, q.v.  
Type species of genus Aureogenus, Black 1944, 141.  
Comment: Type species of genus Aureogenusvirus, Krieg 1961, 146.
- AVENAVIRUS
- Avenavirus maculans, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Avenavirus rosettae, Klinkowski and Kreutzberg 1958, 4.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c3)  
Fractilinea avenae, McKinney 1944, 327, q.v.  
Graminevirus avenae, (McKinney) Ryzhkov 1952, 466, q.v.
- Avenavirus rosettans, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Fractilinea avenae, McKinney 1944b, 327, q.v.  
Graminevirus avenae, (McKinney) Ryzhkov 1952, 466, q.v.
- BACULUS, Limasset 1954, 94.  
(Gen. Vir.) (Not Val. Pub.: Rule 13e)  
Marmor, Holmes 1939b, 16, q.v.
- BETA VIR, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Rugavirus, Krieg 1961, 151, q.v.  
Type sp. (monotype): Betavir eutetticola, Fawcett 1940, 560.
- Betavir eutetticola, (sic) Fawcett 1940, 560.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus eutettigicola, Holmes 1939b, 11, q.v.  
Comment: Type species of genus Betavir, Fawcett 1940, 560.
- Betavir verrucans, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus eutettigicola, Holmes 1939b, 11, q.v.
- Beta virus innocens, "Smith" in Klinkowski 1958, 38.  
(Sp. Vir.) (Not Val. Pub.: Rule 5a)  
Comment: Reference to proposal by Smith not found.
- Betavirus maculans, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor betae, Holmes 1939b, 72, q.v.
- Betavirus reticulosum, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

- BIRETEXVIRUS**, Hansen 1958, 222.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Tarpeia, Holmes 1948, 1268, q.v.  
Type sp. (monotype): Biretexvirus suis, Hansen 1958, 222.
- BLASTOGENUS**, McKinney 1944a, 151.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): Blastogenus fragariae, McKinney 1944a, 151.
- Blastogenus fragariae*, (Holmes) McKinney 1944a, 151.  
(Sp. Vir., Leg.)  
Nanus fragariae, Holmes 1939b, 128, q.v.  
Fragariaevirus everriculosum, Roland 1959, 130.  
Comment: Type species of genus Blastogenus, McKinney 1944a, 151.
- BRASSICAVIRUS**
- Brassicavirus anulolaedens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Brassicavirus crispans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Savoia napi, Holmes 1939b, 133, q.v.
- Brassicavirus nerviclarans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cruciferarum, Holmes 1939b, 69, q.v.
- Brassicavirus nigromaculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor brassicae, Holmes 1939b, 70, q.v.
- BROMVIRUS**
- Bromvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor graminis, McKinney 1944b, 325, q.v..
- BRYOVIRUS**, Thornberry 1941, 25.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 12c2, 13a)
- CALCEOLARIVIR**, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)
- CALLISTEPHUSVIRUS**
- Callistephusvirus flavescens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus callistephi, Holmes 1939b, 2, q.v.
- CAMELLIAVIRUS**
- Camelliavirus librinecans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CANNAVIRUS**
- Cannavirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Cannavirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CARPOPHTHORA**, McKinney 1944a, 152; Holmes 1948, 1151.  
(Gen. Vir.) (Val. Pub., Leg.)  
Daxeivirus, Hansen 1956, 128.  
Carpophthoravirus, (sic) Krieg 1961, 150.  
Type sp. (orig. des.): Carpopthora lacerans, (Holmes) McKinney 1944a, 152.
- Carpophthora lacerans*, (Holmes) McKinney 1944a, 152.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor lacerans, Holmes 1939b, 82, q.v.  
Daxeivirus pruni, Hansen 1956, 128, type species of genus Daxeivirus, Hansen 1956, 128.  
Persicavirus lacerans, Roland 1959, 129.  
Carpophthoravirus lacerans, (Holmes) Krieg 1961, 150, type species of genus Carpopthoravirus, (sic) Krieg 1961, 150.  
Comment: Type species of genus Carpopthora, McKinney 1944a, 152.
- Carpophthora rosettae*, (Holmes) Holmes 1948, 1152.  
(Sp. Vir.) (Val. Pub., Leg.)  
Chlorogenus rosettae, Holmes 1939a, 434.  
Nanus rosettae, Holmes 1939b, 125, q.v.  
Prunivir rosettae, Fawcett 1940, 560, type species of genus Prunivir, Fawcett 1940, 560.  
Persicavirus rosettans, Roland 1959, 129.
- CARPOPHTHORAVIRUS**, (sic) Krieg 1951, 150.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Carpophthora, McKinney 1944a, 152; Holmes 1948, 1141, q.v.  
Type sp. (monotype): Carpopthoravirus lacerans, (McKinney) Krieg 1961, 150.
- Carpophthoravirus lacerans*, (Holmes) Krieg 1961, 150.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Marmor lacerans, Holmes 1939b, 82, q.v.  
Carpophthora lacerans, (Holmes) McKinney 1944a, 152, q.v., type species of genus Carpopthora, McKinney 1944a, 152.
- CATTLEYAVIRUS**
- Cattleyavirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CERASUSVIRUS**
- Cerasusvirus asperans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Rimocortius kwanzani, Milbrath and Zeller 1942, 430, q.v.
- Cerasusvirus flavescens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus cerasi, Hildebrand 1944, 1003, q.v.
- Cerasusvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cerasi, Zeller and Evans 1941, 467, q.v.
- Cerasusvirus rubiginosum*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor rubiginosum, Reeves 1940, 789, q.v.
- Cerasusvirus verrucans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CHLOROGENACEAE**, Holmes 1939, 1.  
(Fam. Vir.) (Val. Pub., Leg.)
- CHLOROGENUS**, Holmes 1939a, 434.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus, Holmes 1939b, 1, q.v.  
Type sp. (orig. des.): Chlorogenus callistephi, Holmes 1939a, 434.
- CHLOROGENUS**, Holmes 1939b, 1.  
(Gen. Vir.) (Val. Pub., Leg.)  
Chlorogenus, Holmes 1939a, 434.  
Dacicavirus, Hansen 1956, 125.  
Chlorogenusvirus, Krieg and Huger 1960a, 404.  
Chlorogenusvirus, Krieg 1951, 143.  
Type sp. (orig. des.): Chlorogenus callistephi, Holmes 1939b, 2.
- Chlorogenus australiensis*, (Holmes) Holmes 1948, 1147.  
(Sp. Vir.) (Val. Pub., Leg.)  
Galla australiensis, Holmes 1939b, 107, q.v.  
Leptomotropus lycopersici, Ryzhkov 1952, 466.  
Leptomotropus lycopersici, Kohler and Klinkowski 1954, 601.  
Hyaesthesophilus solenacii, Sukhov 1956, 264.  
Lycopersicumvirus australiense, Roland 1959, 130.  
Comment: Klinkowski and Uschdraweit 1958, 103, Consider this synonymous with Chlorogenus vaccinii, Holmes 1939b, 10.
- Chlorogenus australiensis* var. stolbur, Kovachevski 1954, (Var. Vir.) (Val. Pub., Leg.) 164, 165.  
Leptomotropus korozevsicianus, Ryzhkov 1952, 466.  
Leptomotropus korozevsicianus, "Ryzhkov" in Kohler and Klinkowski 1954, 601.

- Chlorogenus callistephi, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a3)  
Chlorogenus callistephi, Holmes 1939b, 2, q.v.,  
type species of genus Chlorogenus, Holmes 1939b, 1.  
Comment: Type species of genus Chlorogenus,  
Holmes 1939a, 434.
- Chlorogenus callistephi, Holmes 1939b, 2.  
(Sp. Vir.) (Val. Pub., Leg.)  
Chlorogenus callistephi, Holmes 1939a, 434, type  
species of genus Chlorogenus, Holmes 1939a, 434.  
Dacivirus callistephi, (Holmes) Hansen 1956, 125,  
type species of genus Dacivirus, Hansen 1956, 125.  
Callistephusvirus flavescens, Roland 1959, 128.  
Chlorogenusvirus callistephi, (Holmes) Krieg and  
Huger 1960, 404.  
Chlorogenusvirus callistephi, Krieg 1961, 143, type  
species of genus Chlorogenusvirus, Krieg 1961, 143.  
Calligenus (sic) callistephi, "Harris" in Beirne 1952,  
228.  
Type var. (orig. des.): Chlorogenus callistephi var.  
vulgaris, Holmes 1939b, 3.  
Comment: Type species of genus Chlorogenus, Holmes  
1939b, 1.
- Chlorogenus callistephi var. albifrons, Heinze 1959, 140.  
(Var. Vir.) (Val. Pub., Leg.)
- Chlorogenus callistephi var. attenuatus, Holmes 1939a,  
(Var. Vir.) (Not Val. Pub.: Rule 12a3) 434.  
Chlorogenus callistephi var. attenuatus, Holmes 1939b,  
4, q.v.
- Chlorogenus callistephi var. attenuatus, Holmes 1939b, 4.  
(Var. Vir.) (Val. Pub., Leg.)  
Chlorogenus callistephi var. attenuatus, Holmes 1939a,  
434.
- Chlorogenus callistephi var. californicus, Holmes 1939a,  
(Var. Vir.) (Not Val. Pub.: Rule 12a2) 434.  
Chlorogenus callistephi var. californicus, Holmes  
1939a, 3, q.v.
- Chlorogenus callistephi var. californicus, Holmes 1939b,  
(Var. Vir.) (Val. Pub., Leg.) 3.  
Chlorogenus callistephi var. californicus, Holmes  
1939b, 434.
- Chlorogenus callistephi var. vulgaris, Holmes 1939a,  
(Var. Vir.) (Not Val. Pub.: Rule 12a2) 434.  
Chlorogenus callistephi var. vulgaris, Holmes 1939b,  
q.v., type variety of species Chlorogenus callistephi,  
Holmes 1939b, 2.
- Chlorogenus cerasae, Hildebrand 1944, 1003.  
Chlorogenus cerasi, Hildebrand 1944, 1003, q.v.
- Chlorogenus cerasi, Hildebrand 1944, 1003.  
(Sp. Vir.) (Val. Pub., Leg.) as Chlorogenus cerasae.  
Cerasusvirus flavescens, Roland 1959, 128.
- Chlorogenus eutetticola, (sic) Holmes 1939b, 11,  
name corrected to Chlorogenus eutettigicola by Holmes  
1948, 1219.
- Chlorogenus eutettigicola, Holmes 1939b, 11 as  
Chlorogenus euttigicola  
(Sp. Vir.) (Val. Pub., Leg.)  
Betavir euttigicola, (sic) Fawcett 1940, 560, type  
species of genus Betavir, Fawcett 1940, 560.  
Dacivirus beta, Hansen 1956, 125.  
Ruga verrucosans, Carnser and Bennett 1943, 386;  
Holmes 1948, 1219.  
Betavirus verrucans, Roland 1959, 128.  
Rugavirus verrucosans, (Carnser and Bennett) Krieg  
1961, 151, type  
species of genus Rugavirus, Krieg 1961, 151.  
Comment: Spelling corrected, Holmes, 1948, 1219.
- Chlorogenus fragariae, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Chlorogenus humuli, Holmes 1939b, 15.  
(Sp. Vir.) (Val. Pub., Leg.)  
Humulusvirus urticans, Roland 1959, 128.
- Chlorogenus medicaginis, Holmes 1939b, 14.  
(Sp. Vir.) (Val. Pub., Leg.)  
Medicagovirus everriculosum, Roland 1959, 129.
- Chlorogenus myricae, Raychaudhuri 1953, 19.  
(Sp. Vir.) (Val. Pub., Leg.)
- Chlorogenus patagoniensis, Bennett and Munck 1946, 60.  
(Sp. Vir.) (Val. Pub., Leg.)
- Chlorogenus persicae, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus persicae, Holmes 1939b, 5, q.v.  
Type var. (orig. des.): Chlorogenus persicae var.  
vulgaris, Holmes 1939a, 434.
- Chlorogenus persicae, Holmes 1939b, 5.  
(Sp. Vir.) (Val. Pub., Leg.)  
Chlorogenus persicae, Holmes 1939a, 434.  
Persicavirus flavescens, Roland 1959, 129.  
Type var. (orig. des.): Chlorogenus persicae var.  
vulgaris, Holmes 1939b, 5.
- Chlorogenus persicae var. micropersica, Holmes 1939a,  
(Var. Vir.) (Not Val. Pub.: Rule 12a2) 434.  
Chlorogenus persicae var. micropersica, Holmes  
1939b, 6, q.v.
- Chlorogenus persicae var. micropersica, Holmes 1939b,  
(Var. Vir.) (Val. Pub., Leg.) 6.  
Chlorogenus persicae var. micropersica, Holmes  
1939a, 434.
- Chlorogenus persicae var. vulgaris, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus persicae var. vulgaris, Holmes 1939b,  
4, q.v.  
Comment: Type variety of species Chlorogenus  
persicae, Holmes 1939a, 434.
- Chlorogenus persicae var. vulgaris, Holmes 1939b, 5.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Chlorogenus persicae var. vulgaris, Holmes 1939a,  
Persicavirus nudans, Roland 1959, 129. 434.  
Comment: Type variety of species Chlorogenus  
persicae, Holmes 1939b, 5.
- Chlorogenus robiniae, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus robiniae, Holmes 1939b, 13, q.v.  
Polycladus robiniae, (Holmes) McKinney 1944a, 131,  
type species of genus Polycladus, q.v.  
McKinney 1944a, 151.
- Chlorogenus robiniae, Holmes 1939b, 13.  
(Sp. Vir.) (Val. Pub., Leg.)  
Polycladus robiniae, (Holmes) McKinney 1944a, 151,  
q.v., type species of genus Polycladus, McKinney  
1944a, 151.  
Robiniavirus everriculosum, Roland 1959, 130.  
Chlorogenus robiniae, Holmes 1939a, 434.
- Chlorogenus rosettae, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Nanus rosettae, Holmes 1939b, 125, q.v.  
Carpophthora rosettae, (Holmes) Holmes 1948, 1152,  
q.v.
- Chlorogenus santali, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus santali, Holmes 1939b, 8, q.v.
- Chlorogenus santali, Holmes 1939b, 8.  
(Sp. Vir.) (Val. Pub., Leg.)  
Chlorogenus santali, Holmes 1939a, 434.  
Santalumvirus spicans, Roland 1959, 130.
- Chlorogenus sesami, Kohler and Klinkowski 1954, 665.  
(Sp. Vir.) (Val. Pub., Leg.)
- Chlorogenus solani, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus solani, Holmes 1939b, 7, q.v.  
Chlorophthora solani, (Holmes) McKinney 1944a, 151,  
q.v., type species of genus Chlorophthora, McKinney  
1944a, 151.

- Chlorogenus solani*, Holmes 1939b, 7.  
(Sp. Vir.) (Va. Pub., Leg.)  
*Chlorogenus solani*, Holmes 1939a, 434.  
*Chlorophthora solani*, (Holmes) McKinney 1944a, 151, q.v., type species of genus *Chlorophthora*, McKinney 1944a, 151.  
*Solanum virus evcutotranslatum*, Roland 1952, 53.  
*Solanumvirus everriculosum*, Roland 1959, 129.
- Chlorogenus vaccinii*, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus vaccinii*, Holmes 1939b, 10, q.v.
- Chlorogenus vaccinii*, Holmes 1939b, 10.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Chlorogenus vaccinii*, Holmes 1939a, 434.  
*Leptomotropus vaccinii*, Ryzhkov 1952, 466, type species of genus *Leptomotropus*, Ryzhkov 1952, 466.  
*Vacciniavirus sterilefaciens*, Roland 1959, 130.
- Chlorogenus zeae* var. *mexicanus*, Maramorosch 1958, (Var. Vir.) (Val. Pub., Leg.) 450.  
*Chlorogenusvirus zeae* var. *mexicanus*, (Maramorosch) Krieg 1961, 144.
- Chlorogenus zeae* var. *riograndensis*, Maramorosch 1958, (Var. Vir.) (Val. Pub., Leg.) 450.  
*Chlorogenusvirus* var. *riograndensis*, (Maramorosch) Krieg 1961, 144.
- CHLOROGENUSVIRUS, Krieg 1961, 143.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Chlorogenus*, Holmes 1939b, 1, q.v.  
Type sp. (implied): *Chlorogenusvirus callistephi*, (Holmes) Krieg 1961, 143.
- CHLOROGENUSVIRUS, Krieg and Huger 1960, 404.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus*, Holmes 1939b, 1, q.v.
- Chlorogenusvirus callistephi*, (Holmes) Krieg 1961, 143.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Chlorogenus callistephi*, Holmes 1939a, 2, q.v.  
type species of genus *Chlorogenus*, Holmes 1939a, 1.  
Comment: Type species of genus *Chlorogenusvirus*, Krieg 1961, 143.
- Chlorogenusvirus callistephi*, Krieg and Huger 1960, 404.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus callistephi*, Holmes 1939b, 2, q.v.  
type species of genus *Chlorogenus*, Holmes 1939b, 1.
- Chlorogenusvirus zeae*, (Maramorosch) Krieg 1961, 144.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Chlorogenus zeae*, Maramorosch 1958, 450, q.v.
- Chlorogenusvirus zeae* var. *mexicanus*, (Maramorosch) Krieg 1961, 144.  
(Var. Vir.) (Not Val. Pub., Rule 12a)  
*Chlorogenus zeae* var. *mexicanus*, Maramorosch 1958, 450, q.v.
- Chlorogenusvirus zeae* var. *riograndensis*, (Maramorosch) Krieg 1961, 144.  
(Var. Vir.) (Not Val. Pub.: Rule 12a)  
*Chlorogenus zeae* var. *riograndensis*, Maramorosch 1958, 450, q.v.
- CHLOROPHTHORA, McKinney 1944a, 151.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Chlorophthora solani*, (Holmes) McKinney 1944a, 151.
- Chlorophthora solani*, (Holmes) McKinney 1944a, 151.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Chlorogenus solani*, Holmes 1939a, 434.  
*Chlorogenus solani*, Holmes 1939b, 7, q.v.  
*Solanum virus evcutotranslatum*, Roland 1952, 53.  
*Leptomotropus solanacearum*, Ryzhkov 1952, 466.  
*Leptomotropus solanacearum*, Kohler and Klinkowski 1954, 661.  
*Solanumvirus everriculosum*, Roland 1959, 129.  
Comment: Type species of genus *Chlorophthora*, McKinney 1944a, 151.
- CICAVIRACEAE, Hansen 1956, 124.  
(Fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes 2 collective genera  
*Mecicavirus*, Hansen 1956, 124 and  
*Dacicavirus*, Hansen 1956, 125.
- CICAVIRALES, Hansen 1956, 124.  
(Ord. Vir.) (Val. Pub., Leg.)  
Comment: Includes Family: *Cicaviraceae*.
- CITRIVIR, Fawcett 1940, 561; 1941, 357.  
(Gen. Vir.) (Not Val. Pub.: Rule 12c)  
*Dinivirus*, Hansen 1956, 125, q.v.  
Type sp. (Subs. des.) Holmes 1948, 1209):  
*Citrivir psorosis*, Fawcett 1941, 561.
- Citrivir italicum*, Fawcett 1940, 561; 1941, 357.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Marmor italicum*, (Fawcett) Holmes 1948, 1202, q.v.
- Citrivir pertinaciae*, (sic) Fawcett 1946a, 676.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Citrusvirus pertinax*, Roland 1959, 128.
- Citrivir psorosis*, Fawcett 1940, 561; 1941, 357.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Rimocortius psorosis*, (Fawcett) Holmes 1948, 1210, q.v.  
Type var. (orig. des.): *Citrivir psorosis* var. *vulgare*, Fawcett 1940, 561.  
Comment: Type species of genus *Citrivir*, Fawcett 1940, 561.
- Citrivir psorosis*, Fawcett 1941, 357.  
*Rimocortius psorosis*, Fawcett 1948, 1210.  
Source: Rutaceae-Citrus sinensis, Osbeck, orange;  
*Citrus limonis*, Osbeck, lemon; *Citrus maxima*, Merr., grapefruit.
- Citrivir psorosis* var. *alveatum*, Fawcett and Bitancourt 1943, 854.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Rimocortius psorosis* var. *alveatum*, (Fawcett and Bitancourt) Holmes 1948, 1211, q.v.
- Citrivir psorosis* var. *anulatum*, Fawcett 1940, 561; 1941, 357.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Rimocortius psorosis* var. *anulatum*, (Fawcett) Holmes 1948, 1210, q.v.
- Citrivir psorosis* var. *concavum*, Fawcett and Bitancourt 1943, 850.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Rimocortius psorosis* var. *concavum*, (Fawcett and Bitancourt) Holmes 1948, 1210, q.v.
- Citrivir psorosis* var. *vulgare*, Fawcett 1940, 561; 1941, 357.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
*Rimocortius psorosis* var. *vulgare*, (Fawcett) Holmes 1949, 1210, q.v.  
Comment: Type variety of species *Citrivir psorosis*, Fawcett 1940, 561.
- Citrusvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor italicum*, (Fawcett) Holmes 1948, 1202, q.v.
- Citrusvirus pertinax*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Citrivir pertinaciae*, (sic) Fawcett 1946a, 676, q.v.
- Citrusvirus scabiosum*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Rimocortius psorosis*, Holmes 1948, 1219, q.v.
- Citrusvirus vastans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub., Rule 12a2)
- CORIODES, Bitancourt, 1953, 453.  
(Gen. Vir.) (Not Val. Pub.: Rule 12c2)  
*Corium*, Holmes 1939b, 119, q.v.

- CORIUM**, Holmes 1939b, 119.  
(Gen. Vir.) (Val. Pub., Leg.)  
Coriodes, Bitancourt 1953, 453.  
Quanjeria, Ryzhkov 1952, 466.  
Corium virus, Krieg 1961, 151.  
Type sp. (orig. des.): *Corium solani*, Holmes 1939b, 120.
- Corium betae*, Holmes 1948, 1204.  
(Sp. Vir.) (Val. Pub., Leg.)  
Daphivirus betae, (Holmes) Hansen 1956, 123, q.v.  
type species of genus Daphivirus, Hansen 1956, 123.  
Daphiflexus betae, (Holmes) Hansen 1958, 222,  
type species of genus Daphiflexus, Hansen 1958, 222.  
Betavirus flavescens, Roland 1959, 128.
- Corium rubi*, Holmes 1939b, 121.  
(Sp. Vir.) (Val. Pub., Leg.)  
Rubusvirus crispans, Roland 1959, 130.  
Type var. (orig. des.): *Corium rubi* var. alpha,  
Holmes 1939b, 121.
- Corium rubi* var. alpha, Holmes 1939b, 121.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species *Corium rubi*,  
Holmes 1939b, 121.
- Corium rubi* var. beta, Holmes 1939b, 122.  
(Var. Vir.) (Val. Pub., Leg.)
- Corium ruborum*, (Zeller and Braun) Holmes 1948, 1205.  
(Sp. Vir.) (Val. Pub., Leg.)  
Minor ruborum, Zeller and Braun 1943, 161, q.v.  
type species of genus Minor, Zeller and Braun 1943,  
161.
- Corium solani*, Holmes 1939b, 120.  
(Sp. Vir.) (Val. Pub., Leg.)  
Quanjeria tuberosi, Ryzhkov 1952, 466,  
type species of genus Quanjeria, Ryzhkov 1952, 466.  
Solanum virus altathermus, Roland 1952, 53.  
Solanum virus librimortiferum, Roland 1952, 53.  
Solanumvirus varians, Kohler 1952b, 51.  
Solanumvirus rigidiformis, Kohler 1952b, 51.  
Daphivirus solani, (Holmes) Hansen 1956, 128.  
Solanumvirus perniciosum, Roland 1959, 129.  
Coriumvirus solani, (Holmes) Krieg 1961, 151.  
type species of genus Coriumvirus, Krieg 1961, 151.  
Comment: Type species of genus *Corium*, Holmes  
1939b, 119.
- Corium viatoris*, Heinze 1959, 170, 176, 181, 182.  
(Sp. Vir.) (Val. Pub., Leg.)
- Corium zaeae*, Stoner 1952, 688.  
(Sp. Vir.) (Val. Pub., Leg.)  
Zeavirus variegans, Roland 1959, 129.
- CORIUMVIRUS**, Krieg 1961, 151.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Corium*, Holmes 1939b, 119, q.v.  
Type sp. (monotype): *Coriumvirus solani*, (Holmes)  
Krieg 1961, 151.
- Coriumvirus solani*, (Holmes) Krieg 1961, 151.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Corium solani*, Holmes 1939b, 120, q.v.,  
type species of *Corium*, Holmes 1939b, 119.  
Comment: Type species of genus *Coriumvirus*, Krieg  
1961, 151.
- CROTALARIAVIRUS**
- Crotalariavirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CRYSTALLOCOCCUS**, Ryzhkov 1952, 465.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (Subs. des.: Barkley 1960, 68):  
*Crystallococcus lycopersici*, Ryzhkov 1952, 465.
- Crystallococcus cruciferae*, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)
- Crystallococcus lycopersici*, Ryzhkov 1952, 465.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor dodecahedron, Holmes 1939b, 20, q.v.  
Type sp. of Genus *Crystallococcus*, Ryzhkov 1952,  
465.
- Crystallococcus medicaginis*, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Marmor medicaginis, Holmes 1939b, 91, q.v.
- Crystallococcus tabaci*, Ryzhkov 1952, 465.  
(Sp. Vir.) (Not Val. Pub., Rule 14a2)  
Marmor lethale, Holmes 1939b, 86, q.v.
- CUCUMISVIRUS**
- Cucumisvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
Murialba cucumeris, (Holmes) Valteau 1940, 823, q.v.
- Cucumisvirus vastans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor melonis, Rader et al. 1947, 815, q.v.
- Cucumisvirus viridimaculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor astrictrum var. chlorogenum, Holmes 1939b,  
27, q.v.
- CUCURBITAVIRUS**
- Cucurbitavirus maculans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
Murialba cucumeris, (Holmes) Valteau 1940, 823, q.v.
- CUSCUTAVIR**, Bennett 1944a, 89.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 12d)  
Type sp. (monotype): *Cuscutavir secretum*, Bennett  
1944a, 89.
- Cuscutavir secretum*, Bennett 1944a, 89 in syn.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 12d)  
Marmor secretum, Bennett 1944a, 88, 89, q.v.  
Comment: Type species of genus *Cuscutavir*, Bennett  
1944a, 89.
- CUSCUTAVIRUS**
- Cuscutavirus OCCULTUM*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor secretum, Bennett 1944a, 88, 89, q.v.
- CYMBIDIUMVIRUS**
- Cymbidiumvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- CYTISSUSVIRUS**
- Cytissusvirus variegans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- DACAVIRUS**, Hansen 1956, 130.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Acarinophilus, Ryzhkov 1952, 466, q.v.  
Type sp. (orig. des.): *Dacavirus ribis*, Hansen 1956,  
130.
- Dacavirus ribis*, (Holmes) Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
Acrogenus ribis, Holmes 1939b, 112, q.v.  
Comment: Type species of *Dacavirus*, Hansen 1956,  
130.
- DACICAVIRUS**, Hansen 1956, 125.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Chlorogenus, Holmes 1939b, 1, q.v.  
Type sp. (orig. des.): *Dacivirus callistephi*,  
(Holmes) Hansen 1956, 125.
- Dacivirus betae*, Hansen 1956, 125.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Chlorogenus eutettigicola, Holmes 1939b, 11, q.v.
- Dacivirus callistephi*, (Holmes) Hansen 1956, 125.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Chlorogenus callistephi, Holmes 1939b, 2, q.v.,  
type species of genus *Chlorogenus*, Holmes 1939b, 1.  
Comment: Type species of genus *Dacivirus*, Hansen  
1956, 125.

- Dacicavirus medi-vitis*, Hansen 1956, 125.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Morsus suffodiens*, Holmes 1948, 1153, q.v.,  
type species of genus *Morsus*, Holmes 1948, 1153.
- Dacicavirus sacchari-galli*, Hansen 1956, 125.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Aureogenus magnivena*, Black 1944, 144, q.v.
- Dacicavirus zeae*, Hansen 1956, 125.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor maidis*, Holmes 1939b, 56, q.v.  
*Fractilinea maidis*, (Holmes) McKinney 1944a, 149,  
q.v., type species of genus *Fractilinea*, McKinney  
1944a, 148.
- DACOCVIRUS**, Hansen 1956, 129.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Dacocivirus theobromae*,  
(Posnette) Hansen 1956, 129.
- Dacocivirus theobromae*, (Posnette) Hansen 1956, 129.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor theobromae*, Posnette 1947, 309, q.v.  
*Theobromavirus inflans*, Roland 1959, 128.  
Comment: Type species of genus *Dacocivirus*, Hansen  
1956, 129.
- DAHETVIRUS**, Hansen 1956, 130.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Savioa*, Holmes 1939b, 131, q.v.  
Type sp. (orig. des.): *Dahetvirus betae*, (Holmes)  
Hansen 1956, 130.
- Dahetvirus betae*, (Holmes) Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Savioa betae*, Holmes 1939b, 132, q.v.,  
type species of genus *Savioa*, Holmes 1939b, 131.  
Comment: Type species of genus *Dahetvirus*, Hansen  
1956, 130.
- DAHLIAVIRUS**
- Dahlia virus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rules 12a2)  
*Marmor dahliae*, Holmes 1939b, 85, q.v.  
*Nervillustrans dahliae*, (Holmes) Limasset 1948, 293,  
q.v., type species of genus *Nervillustrans*, Limasset  
1948, 293.
- DALEVIRUS**, Hansen 1956, 129.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Ruga*, Holmes 1939b, 114, q.v.  
Type sp. (orig. des.): *Dalevirus nicotianae*, Hansen  
1956, 130.
- Dalevirus abutiloni*, Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Marmor abutilon*, Holmes 1939b, 50, q.v.
- Dalevirus mani-caulis*, Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Dalevirus manihot*, Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Ruga bemisiae*, Holmes 1939b, 117, q.v.  
*Ochrosticta bemisiae*, (Holmes) McKinney 1944a, 149,  
q.v., type species of genus *Ochrosticta*, McKinney  
1944a, 149.
- DAPHIFLEXUS**, Hansen 1958, 222.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Daphivirus*, Hansen 1956, 123, q.v.  
Type sp. (orig. des.): *Daphiflexus betae*, Hansen  
1958, 222.
- Daphiflexus betae*, (Holmes) Hansen 1958, 222.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Corium betae*, Holmes 1948, 1204, q.v.  
*Daphivirus betae*, (Holmes) Hansen 1956, 123, q.v.,  
type species of genus *Daphivirus*, Hansen 1956, 123.
- DAPHIVIRUS**, Hansen 1956, 123.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Daphiflexus*, Hansen 1958, 222.  
Type sp. (orig. des.): *Daphivirus betae*, (Holmes)  
Hansen 1956, 123.
- Daphivirus betae*, (Holmes) Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Corium betae*, Holmes 1948, 1204, q.v.  
*Daphiflexus betae*, (Holmes) Hansen 1958, 222,  
type species of genus *Daphiflexus*, Hansen 1958, 222.  
Comment: Type species of genus *Daphivirus*, Hansen  
1956, 123.
- Daphivirus citri*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Leg.)
- Daphivirus solani*, (Holmes) Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Corium solani*, Holmes 1939b, 120, q.v.,  
type species of genus *Corium*, Holmes 1939b, 119.
- DAXEVIRUS**, Hansen 1956, 128.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Carpophthora*, McKinney 1944a, 152, q.v.  
Type sp. (orig. des.): *Daxeivirus pruni*, Hansen 1956,  
128.
- Daxeivirus pruni*, Hansen 1956, 128.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Marmor lacerans*, Holmes 1939b, 82, q.v.  
*Carpophthora lacerans*, McKinney 1944a, 152, q.v.,  
type species of genus *Carpophthora*, McKinney 1944a,  
152.  
Comment: Type species of genus *Daxeivirus*, Hansen  
1956, 128.
- DIANTHUSVIRUS**
- Dianthusvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- DINCHORDA**, Hansen 1956, 127.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)
- DINGLOBUS**, Hansen 1956, 127.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)
- DINVIRUS**, Hansen 1956, 125.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Citri vir*, Fawcett 1940, 561; 1941, 357.  
Type sp. (orig. des.): *Dinivirus citri*, Hansen 1956,  
126.
- Dinivirus citri*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Rimocortius psorosis*, Holmes 1948, 1210, q.v.  
Comment: Type species of genus *Dinivirus*, Hansen  
1956, 125.
- Dinivirus pruni*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Rimocortius kwanzani*, Milbrath and Zeller 1942, 430,  
q.v.
- Dinivirus pyri*, (Holmes) Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Rimocortius pyri*, (Holmes) Holmes 1948, 1211, q.v.  
*Marmor pyri*, Holmes 1939b, 76, q.v.  
*Pyrusvirus lignifaciens*, Roland 1959, 129.
- EPIPHYLLUMVIRUS**
- Epiphyllumvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- EVONYMUSVIRUS**
- Evonymusvirus variegans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- FESTINA**, Thomas in Thomas and Rawlins 1951c, 139.  
(Gen. Vir.) (Val. Pub. Illeg. principle 1 ((2)))  
Type sp. (monotype): *Festina lente*, Thomas in  
Thomas and Rawlins 1951, 139.  
Comment: Authors have stated intent to ridicule  
nomenclature as currently applied to the viruses.
- Festina lente*, Thomas in Thomas and Rawlins 1951c, 139.  
(Sp. Vir.) (Val. Pub. Illeg. Principle 1 ((2)))  
Comment: Type species of genus *Festina*, Thomas in  
Thomas and Rawlins 1951, 139.

- FICIVIR, Condit and Horne 1941, 563.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): Ficivir caricae, Condit and Horne 1941, 563.
- Ficivir caricae, Condit and Horne 1941, 563.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor caricae, (Condit and Horne) Holmes 1948, 1201, q.v.  
Ficusvirus maculans, Roland 1959, 128.  
Comment: Type species of genus Ficivir, Condit and Horne 1941, 563.
- FICUSVIRUS
- Ficusvirus maculans, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Ficivir caricae, Condit and Horne 1941, 563, q.v., type species of genus Ficivir, Condit and Horne 1941, 563.  
Marmor caricae, (Condit and Horne) Holmes 1948, 1201, q.v.
- FLAVIMACULA, McKinney 1944a, 149.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): Flavimacula persicae, (Holmes) McKinney 1944a, 149.
- Flavimacula ipomeae, Doolittle and Harter 1945, 703.  
(Sp. Vir.) (Val. Pub., Leg.)  
Comment: Nomenclaturally legitimate, but according to Hildebrand 1960, 751 this is an indeterminable mixture of three viruses.
- Flavimacula persicae, (Holmes) McKinney 1944a, 149.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor persicae, Holmes 1939b, 81, q.v.  
Annulus pruni, Christoff 1958, 383.  
Persicavirus maculans, Roland 1959, 129.  
Comment: Type species of genus Flavimacula, McKinney 1944a, 149.
- Flavimacula persicae, (Holmes) McKinney 1944a, 149.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor persicae, Holmes 1939b, 81, q.v.  
Prunivir flavimacula, Hutchins et al. 1951, 26.  
Annulus pruni, Christoff 1958, 383.  
Persicavirus maculans, Roland 1959, 129.  
Comment: Type species of genus Flavimacula, McKinney 1944a, 149.
- FOLIOPELLIS, Valteau 1940, 825.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): Foliopellis erodens, (Holmes) Valteau 1940, 825.
- Foliopellis erodens, (Holmes) Valteau 1940, 825.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor erodens, Holmes 1939a, 435.  
Marmor erodens, Holmes 1939b, 42, q.v.  
Maphiflexus nico-erodens, Hansen 1956, 123.  
Nicotianavirus erodens, Roland 1959, 130.  
Comment: Type species of genus Foliopellis, Valteau 1940, 825.
- FRACTILINEA, McKinney 1944a, 148.  
(Gen. Vir.) (Val. Pub., Leg.)  
Fractilineavirus, Krieg 1961, 147.  
Type sp. (orig. des.): Fractilinea maidis, McKinney 1944a, 149.
- Fractilinea avenae, McKinney 1944b, 327.  
(Sp. Vir.) (Val. Pub., Leg.)  
Graminevorus avenae, (McKinney) Ryzhkov 1952, 466, q.v.  
Liburnaefilus gramini, Sukhov 1956, 264, type species of genus Liburnaefilus, Sukhov 1956, 264.  
Avenavirus rosettae, Klinkowski and Kruetzbert 1958, 4.  
Avenavirus rosettana, Roland 1959, 129.  
Fractilineavirus avenae, (McKinney) Krieg 1961, 149.
- Fractilinea maidis, (Holmes) McKinney 1944a, 149.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor maidis, Holmes 1939b, 56, q.v.  
Marmor maidis, Holmes 1939a, 435.  
Dacicavirus zeae, Hansen 1956, 125.  
Zeavirus virgatum, Roland 1959, 129.  
Comment: Type species of genus Fractilinea, McKinney 1944a, 148.
- Fractilinea maidis var. nitis, (Holmes) Holmes 1948, (Var. Vir.) (Val. Pub., Leg.) 1160.  
Marmor maidis var. mite, Holmes 1939b, 58, q.v.
- Fractilinea maidis var. sacchari, (Holmes) Holmes 1948, (Var. Vir.) (Val. Pub., Leg.) 1159.  
Marmor maidis var. sacchari, Holmes 1939b, 57, q.v.
- Fractilinea maidis var. typicum, (Holmes) Holmes 1948, (Var. Vir.) (Val. Pub., Illeg.: Rule 7) 1159.  
Marmor maidis var. typicum, (Holmes) Holmes 1939b, 56, q.v., type variety of species Marmor maidis, Holmes 1939b, 56.  
Zeavirus virgatum, Roland 1959, 129.  
Comment: Type variety of species Fractilinea maidis, (Holmes) Holmes 1948, 1159.
- Fractilinea oryzae, (Holmes) Holmes 1948, 1160.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor oryzae, Holmes 1939b, 64, q.v.  
Oryzavirus nanescens, Roland 1959, 130.  
Fractilineavirus oryzae, (Holmes) Krieg 1961, 147.
- Fractilinea quarta, (Holmes) Holmes 1948, 1161.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor quartum, Holmes 1939b, 65, q.v.
- Fractilinea tritici, McKinney 1944b, 327.  
(Sp. Vir.) (Val. Pub., Leg.)  
Graminevorus tritici, (McKinney) Ryzhkov 1952, 466, q.v., type species of genus Graminevorus, Ryzhkov 1952, 466.  
Triticumvirus retardans, Klinkowski and Kruetzberg 1958, 2, type species of genus Triticumvirus, Klinkowski and Kruetzberg 1958, 2.  
Fractiliniavirus tritici, (McKinney) Krieg 1961, 148.
- Fractilinea zeae, (Holmes) Holmes 1948, 1161.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor zeae, Holmes 1939b, 59, q.v.  
Zeavirus maculans, Roland 1959, 129.
- FRACTILINEAVIRUS, Krieg 1961, 147.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Fractilinea, McKinney 1944a, 148.  
Type sp.: Fractilinea maidis, McKinney 1944a, 149.
- Fractilineavirus avenae, (McKinney) Krieg 1961, 149.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Fractilinea avenae, McKinney 1944b, 327, q.v.  
Graminevorus avenae, (McKinney) Ryzhkov 1952, 466, q.v.
- Fractilineavirus oryzae, (Holmes) Krieg 1961, 147.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 24a, 24b)  
Marmor oryzae, Holmes 1939b, 64, q.v.  
Fractilinea oryzae, (Holmes) Holmes 1948, 1160, q.v.
- Fractilineavirus tritici, (McKinney) Krieg 1961, 148.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Fractilinea tritici, McKinney 1944a, 327, q.v.
- Fractilineavirus zeae, (Holmes) Krieg 1961, 149.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor zeae, Holmes 1939b, 59, q.v.  
Fractilinea zeae, (Holmes) Holmes 1948, 1161, q.v.
- FRAGARIAVIRUS
- Fragariavirus crispans, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor fragariae, Holmes 1939b, 78, q.v.
- Fragariavirus cupuliformans, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub., Rule 12a2)  
Nanus cupuliformans, Zeller and Weaver 1941, 851, q.v.
- Fragariavirus everriculosum, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Nanus fragariae, Holmes 1939b, 128, q.v.  
Blastogenus fragariae, (Holmes) McKinney 1944a, 151, q.v., type species of genus Blastogenus, McKinney 1944a, 151.

- Fragaria virus marginans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor marginans, Holmes 1939b, 79, q.v.
- GALLA**, Holmes 1939a, 435.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Galla, Holmes 1939b, 105.  
Type sp. (orig. des.): *Galla fijiensis*, Holmes 1939a, 435.
- Galla anemones*, Holmes 1939b, 108.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Anemonevirus deformans*, Roland 1959, 127.
- Galla australiensis*, Holmes 1939b, 107.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Chlorogenus australiensis*, (Holmes) Holmes 1948, 1147, q.v.  
*Leptomotropus lycopersici*, Ryzhkov 1952, 466.  
*Leptomotropus lycopersici*, Kohler and Klinkowski 1954, 601.  
*Hyaletthesophilus solenacii*, Sukhov 1956, 264.  
*Lycopersicumvirus australiense*, Roland 1959, 130.  
Comment: Klinkowski and Uschdraweit 1958, 103, consider this synonymous with *Chlorogenus vaccinii*, Holmes 1939b, 10.
- Galla fijiensis*, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Galla fijiensis*, Holmes 1939b, 106, q.v., type species of genus *Galla*, Holmes 1939b, 105.
- Galla fijiensis*, Holmes 1939b, 106.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Galla fijiensis*, Holmes 1939a, 435, type species of genus *Galla*, Holmes 1939a, 435.  
*Dacicavirus sacchari-galli*, Hansen 1956, 125.  
*Saccharumvirus fijense*, Roland 1959, 130.  
Comment: Type species of genus *Galla*, Holmes 1939b, 105.
- Galla queenslandiensis*, Holmes 1939b, 109.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Saccharumvirus nanescens*, Roland 1959, 130.
- Galla verrucae*, Blodgett 1943, 30.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Galla verrucae*, "Holmes" in Smith 1957, 346.  
*Prunivir verruca*, Blodgett et al. 1951, 56.  
*Prunivir verruca*, "Fawcett" in Smith 1957, 346.  
*Persicavirus verrucans*, Roland 1959, 129.
- Galla zeae*, McKinney 1944b, 328.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Zeavirus verrucans*, Roland 1959, 129.
- GAPHIVIRUS**, Hansen 1958, 222.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a)  
*Hordeumvirus*, Klinkowski and Kreutzberg 1958, 9, q.v.  
Type sp. (orig. des.): *Gaphivirus avenae*, Hansen 1958, 222.
- Gaphivirus avenae*, Hansen 1958, 222.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a)  
*Minchorda hordei*, Hansen 1956, 126, q.v.  
Comment: Type species of genus *Gaphivirus*, Hansen 1958, 222.
- GECICAVIRUS**, Hansen 1958, 222  
(Gen. Vir.) (Not Val. Pub.: Rule 13a)
- GINCHORDA**, Hansen 1956, 127.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Ginchora nico-caulis*, Hansen 1956, 127.
- Ginchora nico-caulis*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Solanumvirus maculans*, Roland 1959, 129.  
*Solanumvirus singulare*, Kohler 1952, 51.  
*Nicotiana virus humetranslatum*, Roland 1952, 53.  
Comment: Type species of genus *Ginchora*, Hansen 1956, 127.
- GINGLOBUS**, Hansen 1956, 127.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Ginivirus*, Hansen 1956, 126.  
Type sp. (orig. des.): *Ginglobus nico-gamma*, Hansen 1956, 127.
- Ginglobus nico-alpha*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Leg.)
- Ginglobus nico-beta*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Leg.)
- Ginglobus nico-gamma*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor lethale*, Holmes 1939b, 86, q.v.  
Comment: Type species of genus *Ginglobus*, Hansen 1956, 127.
- GINVIRUS**, Hansen 1956, 126.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Ginglobus*, Hansen 1956, 127, q.v.  
Type sp. (orig. des.): *Ginivirus nico-gamma*, Hansen 1956, 126.
- Ginivirus nicogamma*, Hansen 1956, 126 in syn.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor lethale*, Holmes 1939b, 86, q.v.  
*Ginglobus nico-gamma*, Hansen 1956, 127, type species of genus *Ginglobus*, Hansen 1956, 127.  
Comment: Type species of genus *Ginivirus*, Hansen 1956, 126.
- Ginivirus tritici*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Marmor tritici*, Holmes 1939b, 61; McKinney 1944b, 323, q.v.
- GOSSYPIMUMVIRUS**
- Gossypiumvirus crispans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ruga gossypii*, Holmes 1939b, 116, q.v.
- GRAMINEVORUS**, Ryzhkov 1952, 466.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Triticumvirus*, Klinkowski and Kreutzberg 1958, 2.  
Type sp. (subs. des. Barkley 1958, 125):  
*Gramineovor tritici*, (McKinney) Ryzhkov 1952, 466.
- Gramineovor avenae*, (McKinney) Ryzhkov 1952, 466.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Fractilinea avenae*, McKinney 1944b, 327.  
*Liburnaefilus graminis*, Sukhov 1956, 264.  
*Avenavirus rosettae*, Klinkowski and Kreutzberg 1958, 4.  
*Avenavirus rosettans*, Roland 1959, 129.  
*Fractilineavirus avenae*, (McKinney) Krieg 1961, 149.
- Gramineovor tritici*, (McKinney) Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Fractilinea tritici*, McKinney 1944a, 327.  
*Triticumvirus retardans*, Klinkowski and Kreutzberg 1958, 2, type species of genus *Triticumvirus*, Klinkowski and Kreutzberg 1958, 2.  
*Fractilineavirus tritici*, (McKinney) Krieg 1961, 148.  
Comment: Type species of genus *Gramineovor*, Ryzhkov 1952, 466.
- HETVIRACEAE**, Hansen 1956, 130.  
(Fam. Vir.) (Val. Pub., Illeg.: Rule 3)  
Comment: Includes the collective genera:  
*Mehetvirus*, Hansen 1956, 130 and  
*Dahetvirus*, Hansen 1956, 130.
- HIBISCUSVIRUS**
- Hibiscusvirus nervimaculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ochrovena hibiscae*, Capoor and Varma 1950, 229, q.v., type species of genus *Ochrovena*, Capoor and Varma 1950, 229.
- HOLODISCUSVIRUS**
- Holodiscusvirus everriculosum*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- HORDEUMVIRUS**, Klinkowski and Kreutzberg 1958, 9.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Gaphivirus*, Hansen 1958, 222.  
Type sp. (monotype): *Hordeumvirus nanescens*, Klinkowski and Kreutzberg 1958, 9.



- Hordeumvirus nanescens*, Klinkowski and Kreutzberg 1958, 9.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Minchorda hordei*, Hansen 1956, 126, q.v.  
Comment: Type species of genus *Hordeumvirus*, Klinkowski and Kreutzberg 1958, 9.
- HUMULUSVIRUS**
- Humulusvirus flavopingens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Humulusvirus urticans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus humuli*, Holmes 1939b, 15, q.v.
- HYALESTHESOPHILUS**, Sukhov 1956, 264.  
(Gen. Vir.) (Not Val. Pub.: Rule 13d)  
Type sp. (monotype, subs. des. Barkley 1958, 125 as *Hyalesthesophilus soleneai*):  
*Hyalesthesophilus solenacii*, Sukhov 1956, 264.
- Hyalesthesophilus solenacii*, Sukhov 1956, 264.  
(Sp. Vir.) (Not Val. Pub.: Rule 13d)  
*Chlorogenus australiensis*, (Holmes) Holmes 1948, 1147, q.v.  
*Galla australiensis*, Holmes 1939b, 107, q.v.  
Comment: Type species of genus *Hyalesthesophilus*, Sukhov 1956, 264.
- HYOSCYAMUSVIRUS**
- Hyoscyamusvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor hyoscyami*, Holmes 1948, 1171, q.v.  
*Maphiflexus hyoscyami*, (Holmes) Hansen 1956, 123, q.v.
- INCHORDOIDEAE**, Hansen 1956, 126.  
(Subfam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes *Minchorda*, Hansen 1956, 126, *Dinchorda*, 1956, 127, and *Ginchorda*, 1956, 127.
- INFLEXOIDEAE**, Hansen 1956, 127.  
(Sub. Fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes genus: *Miniflexus*, 1956, 127.
- INGLOBOIDEAE**, Hansen 1956, 127.  
(Subfam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes 3 genera: *Minglobus*, Hansen 1945, *Dinglobus*, Hansen 1956, 127, and *Ginglobus*, Hansen 1956, 127.
- INVIRACEAE**, Hansen 1956, 125.  
(Fam. Vir.) (Val. Pub., Illeg.: Rule 3)  
Comment: Includes 3 subfamilies: *Inchordiidae*, Hansen 1956, 126, *Inflexoideae*, Hansen 1956, 127, *Ingloboideae*, Hansen 1956, 127, and 3 collective genera: *Minivirus*, Hansen 1956, 125, *Dinivirus*, Hansen 1956, 125, and *Ginivirus*, Hansen 1956, 126.
- INVIRALES**, Hansen 1956, 125.  
(Ord. Vir.) (Val. Pub., Leg.)  
Comment: Includes the family *Inviraceae*, Hansen 1956, 125.
- IRIDIVIR**, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)
- IRISVIRUS**
- Irisvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor iridis*, Holmes 1939b, 55, q.v.
- JATROPHAVIRUS**
- Jatrophavirus flavescens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Jatrophavirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ruga bemisiae*, Holmes 1939b, 117, q.v.  
*Ochrosticta bemisiae*, (Holmes) McKinney 1944a, 149, q.v., type species of genus *Ochrosticta*, McKinney 1944a, 149.
- KREIZBERGIA**, Ryzhkov 1952, 466.  
(Gen. Vir.) (Not Val. Pub.: Rule 13a)  
Type sp. (monotype): *Kreizbergia pistaciae*, Ryzhkov 1952, 466.
- Kreizbergia pistaciae*, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)
- LACTUCAVIRUS**
- Lactucavirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor lactucae*, Holmes 1939b, 84, q.v.
- LETHACEAE**, Holmes 1939b, 135.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus *Lethum*, Holmes 1939, 135.
- LETHUM**, Holmes 1939b, 135.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Thripsophilus*, Ryzhkov 1952, 466.  
*Methyavirus*, Hansen 1956, 129.  
Type sp. (orig. des.): *Lethum australiense*, Holmes 1939b, 136.
- Lethum australiense*, Holmes 1939b, 136.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Thripsophilus lycopersici*, Ryzhkov 1952, 466, type species of genus *Thripsophilus*, Ryzhkov 1952, 466.  
*Methyavirus lethum*, Hansen 1956, 129, type species of genus *Methyavirus*, Hansen 1956, 129.  
*Lycopersicumvirus zonatum*, Roland 1959, 130.  
Type var. (orig. des.): *Lethum australiense* var. *typicum*, Holmes 1939b, 136.  
Comment: Type species of genus *Lethum*, Holmes 1939b, 135.
- Lethum australiense* var. *lethale*, Holmes 1939b, 138.  
(Var. Vir.) (Val. Pub., Leg.)
- Lethum australiense* var. *typicum*, Holmes 1939b, 136.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)
- Lethum rhizospilum*, Hildebrand 1960, 756.  
(Sp. Vir.) (Val. Pub., Leg.)
- LEVISTICUMVIRUS**
- Levisticumvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- LIBURNIAFILUS**, (sic) Sukhov 1956, 264.  
(Gen. Vir.) (Not Val. Pub.: Rule 13a)  
Type sp. (monotype): *Liburniafilus graminei*, Sukhov 1956, 264.
- Liburniafilus graminei*, Sukhov 1956, 264.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
*Fractilinea avenae*, McKinney 194b, 327, q.v.  
*Graminevorus avenae*, (McKinney) Ryzhkov 1952, 466, q.v.  
Comment: Type species of genus *Liburniafilus*, Sukhov 1956, 264.
- LILIUMVIRUS**
- Liliumvirus occultum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Adelonosus lilii*, Brierley and Smith 1944, 551, q.v., type species of genus *Adelonosus*, Brierley and Smith 1944, 551.
- Liliumvirus rosettans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor lilii*, Heinze 1959, 91, 179, 245, q.v.
- LYCOPERSICUMVIRUS**

- Lycopersicumvirus australiense*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Galla australiense*, Holmes 1939b, 107, q.v.  
*Chlorogenus australiensis*, (Holmes) Holmes 1948, 1147, q.v.
- Lycopersicumvirus fructudecolorans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Lycopersicumvirus reticulosum*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Lycopersicumvirus sterilefaciens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Lycopersicumvirus zonatum*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Lethum australiense*, Holmes 1939b, 136, q.v.
- LYSOGENUS, Ryzhkov 1952, 466.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 13a)  
Type sp. (monotype): *Lysogenus typhi*, Ryzhkov 1952, 466.
- MACAVIRUS, Hansen 1958, 223.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Macavirus tritici*, Hansen 1958, 223.
- Macavirus tritici*, Hansen 1958, 223.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor virgatum*, McKinney 1944b, 324, q.v.  
Comment: Type species of genus *Macavirus*, Hansen 1958, 223.
- MALEVIRUS
- Malevirus euphorbiae*, Hansen 1956, 129.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor conspicuum*, Costa and Bennett 1950, 282, q.v.  
Comment: Type species of genus *Malevirus*, Hansen 1956, 129.
- MAPHICHORDA, Hansen 1956, 123.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Maphichorda raphani*, (Holmes) Hansen 1956, 123.
- Maphichorda dianthi-latens*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Leg.)
- Maphichorda raphani*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor raphani*, Holmes 1948, 1200, q.v.  
*Maphivirus raphani*, Hansen 1958, 222.  
*Raphanusvirus maculans*, Roland 1959, 130.  
Comment: Type species of genus *Maphichorda*, Hansen 1956, 123.
- MAPHIFLEXUS, Hansen 1956, 123.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Maphivirus*, Hansen 1956, 222.  
*Vectomarmor*, Limasset 1948, 293.  
Type sp. (orig. des.): *Maphiflexus solani*, Hansen 1956, 123.
- Maphiflexus hyoscyami*, (Holmes) Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor hyoscyami*, Holmes 1948, 1171, q.v.  
*Hyoscyamusvirus maculans*, Roland 1959, 128.
- Maphiflexus nico-erodens*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Marmor erodens*, Holmes 1939b, 40, q.v.  
*Foliopellis erodens*, (Holmes) Valteau 1940, 825, q.v.,  
type species of genus *Foliopellis*, Valteau 1940, 825.
- Maphiflexus solani*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Marmor upsilon*, (Holmes) Holmes 1948, 1172, q.v.  
Comment: Type species of genus *Maphiflexus*, Hansen 1956, 123.
- MAPHIGLOBUS, Hansen 1956, 124.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Muralba*, Valteau 1940, 823, q.v.  
Type sp. (orig. des.): *Maphiglobus cucumeris*, (Holmes) Hansen 1956, 124.
- Maphiglobus cucumeris*, (Holmes) Hansen 1956, 124,  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a) 126.  
*Marmor cucumeris*, Holmes 1939b, 31, q.v.  
*Muralba cucumeris*, (Holmes) Valteau 1940, 823, q.v.  
Type species of genus *Maphiglobus*, Hansen 1956, 124.
- MAPHIVIRUS, Hansen 1956, 122.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 24a, 25e)  
*Maphiflexus*, Hansen 1956, q.v.  
Type sp. (orig. des.): *Maphivirus solani*, Hansen 1956, 123.
- Maphivirus raphani*, (Holmes) Hansen 1958, 222.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Maphichorda raphani*, (Holmes) Hansen 1956, 123, q.v.,  
type species of genus *Maphichorda*, Hansen 1956, 123.  
*Marmor raphani*, Holmes 1948, 1200, q.v.
- Maphivirus solani*, Hansen 1956, 123.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Marmor upsilon*, (Holmes) Holmes 1948, 1172, q.v.  
Comment: Type species of genus *Maphivirus*, Hansen 1956, 122.
- MARMOR, Holmes 1939a, 434.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Type sp. (orig. des.): *Marmor tabaci*, (d'Herelle) Holmes 1939a, 434.
- MARMOR, Holmes 1939b, 16.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Musivum*, Valteau 1940, 822.  
*Phytovirus*, Thornberry 1941, 23.  
*Virothrix*, Ryzhkov 1952, 465.  
not *Virothrix*, Ryzhkov 1950, 16.  
*Crystallobiotus*, Ryzhkov 1952, 472.  
*Phytovirus*, Bawden 1953, 543.  
*Minchorda*, Hansen 1956, 126.  
*Minivirus*, Hansen 1956, 126.  
Type sp. (orig. des.): *Marmor tabaci*, Holmes 1939b, 30.
- Marmor abaca*, Holmes 1939b, 63.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Musavirus rosettans*, Roland 1959, 127.
- Marmor abutilon*, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor abutilon*, Holmes 1939b, 50, q.v.
- Marmor abutilon*, Holmes 1939b, 50.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor abutilon*, Holmes 1939a, 435.  
*Photophilus elegans*, Ryzhkov 1952, 467.  
*Dalevirus abutiloni*, Hansen 1956, 130.  
*Abutilonvirus variegans*, Roland 1959, 127.
- Marmor aevi*, Holmes 1948, 1200.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Celery-calico virus*  
Source: CUCURBITACEAE - *Cucumis sativus*, L.  
Cucumber: *C. melo*, L., *Cajteloupe*; *Cucurbita pepo*, L., Summer crook neck squash; RANUNCULACEAE - *Delphinium chinensis*; *D. formosum*, hardy larkspur; *D. grandiflorum*; *D. parryi*; *D. zalil*; SOLANACEAE - *Lycopersicon esculentum*, Mill., tomato; UMBELLIFERAE - *Apium graveolens*, L., celery.
- Marmor angeliae*, (sic) Holmes 1948, xii,  
see *Marmor angliae*, Holmes 1939b, 48.
- Marmor angliae*, Holmes 1939b, 48: 1948, xii  
(see *Marmor angeliae*) (Sp. Vir.) (Val. Pub., Leg.)  
*Pseudomarmor angliae*, Limasset 1948, 293.  
*Solanumvirus mirum*, Kohler 1952b, 51.  
*Solanum virus experimentotranslatum*, Roland 1952, 53.
- Marmor agropyri*, McKinney 1944b, 326.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Agropyrumvirus maculans*, Roland 1959, 127.  
Type var. (orig. des.): *Marmor agropyri* var. *typicum*, McKinney 1944b, 326.
- Marmor agropyri* var. *flavum*, McKinney 1944b, 326.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
non *Marmor dubium* var. *flavum*, Holmes 1939b, 46.

- Marmor agropyri var. typicum, McKinney 1944b, 326.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor agropyri, McKinney 1944b, 326.
- Marmor angustum, McKinney 1950, 705.  
(Sp. Vir.) (Val. Pub., Leg.)  
Nonthoscordumvirus maculans, Roland 1959, 129.
- Marmor anularium, McKinney 1944b, 327.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
Annulus tabaci var. virginensis, Holmes 1939b, 98.
- Marmor arachidis, Holmes 1939b, 67.  
(Sp. Vir.) (Val. Pub., Leg.)  
Peanut-rossette virus  
Source: Leguminosae - Arachis hypogaea, L., peanut.
- Marmor arachidis, Holmes 1939b, 67.  
(Sp. Vir.) (Val. Pub., Leg.)  
Arachisvirus rosettans, Roland 1959, 128.
- Marmor astri, Holmes 1939b, 83.  
(Sp. Vir.) (Val. Pub., Leg.)  
Peach asteroid-spot virus  
Source: ROSACEAE - Prunus persica, (L.) Batsch, peach.
- Marmor astri, Holmes 1939b, 83.  
(Sp. Vir.) (Val. Pub., Leg.)  
Persicavirus astrosignans, Roland 1959, 129.
- Marmor astrictum, Holmes 1939b, 27; 1948, 1167.  
(Sp. Vir.) (Val. Pub., Leg.)  
Cucurbit-mosaic virus  
Described as Marmor astrictum var. chlorogenum, Holmes 1939b, 27.  
Source: CUCURBITACEAE - Cucumis sativus, L., cucumber; C. anguria, L., gherkin; C. melo, L., melon; Citrullus vulgaris, Schrad., watermelon.  
Type var. (orig. des.): Marmor astrictum var. chlorogenum, Holmes 1939b, 27.
- Marmor astrictum var. aucuba, Holmes 1939b, 29.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
non Marmor aucuba, Holmes 1939b, 49.
- Marmor astrictum var. chlorogenum, Holmes 1939b, 27.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Cucumisvirus viridimaculans, Roland 1959, 128.  
Musivum astrictum, Valteau 1940, 823.  
Minchorda cucumeris, Hansen 1956, 126.  
Comment: Type variety of species Marmor astrictum, Holmes 1939b, 27.
- Marmor astrictum var. lagenari, (sic) Capoor and Varma 1948, 275,  
see Marmor astrictum var. lagenariae.
- Marmor astrictum var. lagenariae, Capoor and Varma 1948, 275.  
(Var. Vir.) (Val. Pub., Leg.)  
As Marmor astrictum lagenari.
- Marmor astrictum var. subobscurum, Vasudeva, Raychaudhuri and Singh 1949, 185.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor aucuba, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor aucuba, Holmes 1939b, 49, q.v.
- Marmor aucuba, Holmes 1939b, 49.  
(Sp. Vir.) (Val. Pub., Leg.)  
non Marmor astrictum var. aucuba, Holmes 1939b, 20.  
Marmor aucuba, Holmes 1939a, 435.  
Solanumvirus aucuboides, Kohler 1952b, 51.  
Solanum virus aucubamarmor, Roland 1952, 53.  
Phytovirus paracrystalis var. aucuba, Bawden 1953, 543.  
Potato aucuba-mosaic virus  
Source: SOLANACEAE - Solanum tuberosum, L., potato.
- Marmor aucuba var. canadense, Black and Price 1940, (Var. Vir.) (Val. Pub., Illeg.: Rule 7) 444.  
non Marmor tabaci var. canadense, Holmes 1939b, 23.  
Canada-streak strain of potato aucuba-mosaic virus.
- Marmor betae, Holmes 1939b, 72.  
(Sp. Vir.) (Val. Pub., Leg.)  
Aphidophilus betae, Ryzhkov 1952, 465.  
Betavirus maculans, Roland 1959, 128.  
Sugarbeet mosaic virus  
Source: CHENOPODIACEAE - Beta vulgaris, L., beet; Spinacia oleracea, L., spinach.
- Marmor brassicae, Holmes 1939b, 70.  
(Sp. Vir.) (Val. Pub., Illeg.)  
Marmor matthiolae, Holmes 1939b, 71.  
Aphidophilus curciferiae, Ryzhkov 1952, 465.  
Aphidophilus cruciferae, Klinkowski and Unschdraweit 1958, 84.  
Brassicavirus flavescens, Roland 1959, 139.  
Brassicavirus nigromaculans, Roland 1959, 128.  
Brassicavirus octahedron, Roland 1959, 130.  
Matthiolavirus maculans, Roland 1959, 130.  
Turnip mosaic virus  
Source: CRUCIFERAE - Brassica rapa, L., turnip; B. napobrassica, Mill., swede or rutabaga; B. napus, L., rape; B. nigra, (L.) Koch, black mustard; B. oleracea, L., cabbage; Armoracia rusticana, Gaertn., horseradish; Cheiranthus cheiri, L., wallflower; Matthiola incana, R. Br., stock; Sinapis alba, L., white mustard.
- Marmor campestre, McKinney 1944b, 324.  
(Sp. Vir.) (Val. Pub., Leg.)  
Type var. (orig. des.): Marmor campestre var. typicum, McKinney 1944b, 324.
- Marmor campestre var. galbinum, McKinney 1944b, 324.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor campestre var. typicum, McKinney 1944b, 324.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor campestre, McKinney 1944b, 324.
- Marmor caricae, (Condit and Horne) Holmes 1948, 1201.  
(Sp. Vir.) (Val. Pub., Leg.)  
Ficivir caricae, Condit and Horne 1941, 563, q.v.  
Ficusvirus maculans, Roland 1959, 128.  
Source: MORACEAE - Ficus caria, L., fig; F. altissima, Blume; F. krishna; and F. tsiela, Roxb.
- Marmor cepae, Holmes 1939b, 66.  
(Sp. Vir.) (Val. Pub., Leg.)  
Alliumvirus flavorugans, Roland 1959, 129.  
Onion yellow-dwarf virus.  
Source: LILIACEAE - Allium cepa, L., onion.
- Marmor cerasi, Zeller and Evans 1941, 467.  
(Sp. Vir.) (Val. Pub., Leg.) as Marmor cerassae.  
Prunivir cerasi, McLarty et al. 1951, 106.  
Cerasusvirus maculans, Roland 1959, 128.  
Cherry mottle-leaf virus  
Source: ROSACEAE - Prunus avium, L., sweet cherry; P. emarginata, (Dougl.) Walp., wild cherry.
- Marmor cerassae, Zeller and Evans 1941, 467.  
Marmor cerasi, q.v.
- Marmor chrysanthemi, Keller 1953a, 35; 1953b, 406.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor chrysanthemi, "Holmes" in Klinkowski 1958b, 194.
- Marmor cichorii, Kvalca 1956, 624.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor citrullii, Anderson 1954b, 201.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor citrullii var. flavidanum, Anderson 1954, 201.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor colei, Klinkowski 1954, 559.  
(Sp. Vir.) (Val. Pub., Leg.)

- Marmor conspicuum, Costa and Bennett 1950, 282.  
(Sp. Vir.) (Val. Pub., Leg.)  
Malevirus euphorbiae, Hansen 1956, 129,  
type species of genus Malevirus, Hansen 1956, 129.
- Marmor constans, McKinney 1944, 326.  
(Sp. Vir.) (Val. Pub., Leg.)  
Tobacco mild dark-green mosaic virus.  
Source: SOLANACEAE - Nicotiana glauca, R. Grah.,  
tree tobacco.
- Marmor cruciferarum, Holmes 1939b, 69.  
(Sp. Vir.) (Val. Pub., Leg.)  
Cauliflower-mosaic virus.  
Source: CRUCIFERAE - Brassica oleracea, L.,  
cauliflower, kale, Brussel sprouts, cabbage and  
broccoli; B. campestris, L., wild yellow mustard;  
Matthiola incana, R. Br., annual stock.
- Marmor cruciferarum, Holmes 1939b, 69.  
(Sp. Vir.) (Val. Pub., Leg.)  
Brassicavirus nerviclares, Roland 1959, 128.
- Marmor cucumeris, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Pub., Rule 12a2)  
Marmor cucumeris, Holmes 1949b, 31, q.v.  
Murialba cucumeris, (Holmes) Valteau 1940, 823, q.v.
- Marmor cucumeris, Holmes 1939b, 31.  
Sp. Vir.) (Val. Pub., Leg.)  
Marmor cucumeris, Holmes 1939a, 434.  
Murialba cucumeris, (Holmes) Valteau 1940, 823, q.v.,  
type species of genus Murialba, Valteau 1940, 823.  
Aphidophilus cucumeris, (Holmes) Ryzhkov 1952, 465,  
type species of genus Aphidophilus, Ryzhkov 1952, 465.  
Virococcus cucurbitae, Ryzhkov 1952, 465, type  
species of genus Virococcus, Ryzhkov 1952, 465.  
Phytovirus paracrystalis var. cucumis, Bawden 1953,  
543.  
Aphidophilus cucurbitae, Kohler and Klinkowski 1954,  
677.  
Maphiglobus cucumeris, (Holmes) Hansen 1956, 124,  
type species of genus Maphiglobus, Hansen 1956, 124.  
Mexevirus cucurbitae, Hansen 1956, 128.  
Mexeglobus cucurbitae, Hansen 1958, 222, type  
species of genus Mexeglobus, Hansen 1958, 222.  
Maphivirus cucumeris, Hansen 1958, 222.  
Cucurbitavirus maculans, Roland 1959, 130.  
Cucumisvirus maculans, Roland 1959, 128.  
Type var. (orig. des.): Marmor cucumeris var.  
vulgare, Holmes 1939b, 31.
- Marmor cucumeris, Holmes 1948, 1173.  
(Sp. Vir.) (Val. Pub., Leg.)  
Murialba cucumeris, Valteau 1940, 823.  
Cucumber-mosaic virus.  
Described as Marmor cucumeris var. vulgare, Holmes  
1939b, 31.  
Source: Dicotyledonous and monocotyledonous plants;  
cucumber; celery, spinach, tobacco and pepper.
- Marmor cucumeris var. commelinae, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cucumeris var. commelinae, Holmes 1939b,  
35, q.v.
- Marmor cucumeris var. commelinae, Holmes 1939b, 35.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor cucumeris var. commelinae, Holmes 1939a,  
434.  
Southern celery-mosaic strain of cucumber-mosaic  
virus.  
Source: Celery and other plants.
- Marmor cucumeris var. judicis, Holmes 1939b, 38.  
(Var. Vir.) (Val. Pub., Leg.)  
Indicator strain of cucumber-mosaic virus.  
Source: Zinnia.
- Marmor cucumeris var. lilii, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cucumeris var. lilii, Holmes 1939b, 37, q.v.
- Marmor cucumeris var. lilii, Holmes 1949b, 37.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor cucumeris var. lilii, Holmes 1939a, 434.  
Lily-mosaic strain of cucumber-mosaic strain.  
Source: Lilies.
- Marmor cucumeris var. phaseoli, Holmes 1939b, 36.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
not Marmor phaseoli, 1939b, 87.  
Lima-bean strain of cucumber-mosaic virus.  
Source: Lima bean.
- Marmor cucumeris var. upsilon, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor cucumeris var. upsilon, Holmes 1939b, 33,  
q.v.
- Marmor cucumeris var. upsilon, Holmes 1939b, 33.  
(Var. Pub., Leg.)  
Marmor upsilon, (Holmes) Holmes 1948, 1172, q.v.
- Marmor cucumeris var. vignae, Holmes 1939b, 39.  
(Var. Vir.) (Val. Pub., Leg.)  
not Marmor vignae, Holmes 1948, 1188.  
Cowpea-mottling strain of cucumber-mosaic virus.  
Source: Black cowpea.
- Marmor cucumeris var. vulgare, Holmes 1939a, 434;  
1939b, 31.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Marmor cucumeris var. vulgare, Holmes 1939a, 434;  
1939b, 31, q.v.
- Marmor cucumeris var. zinae, Prasad and Raychaudhuri  
1962, 125.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor cynarae, Costa, Duffus, Morton, Yarwood and  
Bardin 1959, 52.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor dahliae, Holmes 1939b, 85.  
(Sp. Vir.) (Val. Pub., Leg.)  
Mexevirus helianthi, Hansen 1956, 128.  
Dahliavirus maculans, Roland 1959, 128.  
Nervillustrans dahliae, (Holmes) Limasset 1948, 293,  
q.v., type species of genus Nervillustrans, Limasset  
1948, 293.
- Marmor daturae, Capoor and Varma 1952, 312.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor decipiens, Gilmer 1958, 434.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor dilucidum, van Katwijk according to Baumann  
1958, 126, 132.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Annulus pyri, Christoff 1958, 424, q.v.
- Marmor dipsaci, Stoner 1951, 193.  
(Sp. Vir.) (Val. Pub., Leg.)  
as Marmor dipsacum.
- Marmor dipsacum, Stoner 1951, 193,  
see Marmor dipsaci.
- Marmor dodecahedron, Holmes 1939b, 30.  
(Sp. Vir.) (Val. Pub., Leg.)  
Crystallocooccus lycopersici, Ryzhkov 1952, 465.  
Lycopersicumvirus dodecahedron, Roland 1959, 130.
- Marmor dubium, Holmes 1939b, 42.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor dubium, Holmes 1939a, 434.  
Annulus dubius, (Holmes) Holmes 1948, 1214, q.v.  
Solanophilus tuberosi, Ryzhkov 1952, 465, type species  
of genus Solanophilus, Ryzhkov 1952, 465.  
Solanum-virus deformans, Kohler 1952a, 294, type  
species of genus Solanum-virus, Kohler 1952a, 294.  
Minflexus solani, Hansen 1956, 127, type species of  
genus Minflexus, Hansen 1956, 127.  
Minivirus solani, Hansen 1958, 222.  
Type var. (orig. des.): Marmor dubium var. vulgare,  
Holmes 1939a, 434.

- Marmor dubium* var. *annulus*, Holmes 1939a, 435.  
(Val. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor dubium* var. *annulus*, Holmes 1939b, 44, q.v.  
*Annulus dubius* var. *annulus*, (Holmes) Holmes 1948, 1215, q.v.
- Marmor dubium* var. *annulus*, Holmes 1939b, 44.  
(Var. Vir.) (Val. Pub., Leg.)  
*Annulus dubius* var. *annulus* (Holmes) Holmes 1948, 1915, q.v.  
*Marmor dubium* var. *annulus*, Holmes 1939a, 435.  
*Solanumvirus anulosum*, Kohler 1952b, 51.  
*Solanum virus contactutranslatum*, Roland 1952, 55.  
*Solanumvirus X-nominatum*, Roland 1959, 129.
- Marmor dubium* var. *flavum*, Holmes 1939b, 46.  
(Var. Vir.) (Val. Pub., Leg.)  
*Annulus dubius* var. *flavus*, (Holmes) Holmes 1948, 1216, q.v.
- Marmor dubium* var. *obscurum*, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor dubium* var. *obscurum*, Holmes 1939b, 46, q.v.  
*Annulus dubius* var. *obscurus*, (Holmes) Holmes 1948, 1216, q.v.
- Marmor dubium* var. *obscurum*, Holmes 1939b, 46.  
(Var. Vir.) (Val. Pub., Leg.)  
*Annulus dubius* var. *obscurus*, (Holmes) Holmes 1948, 1216, q.v.
- Marmor dubium* var. *vulgare*, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
*Annulus dubius* var. *vulgaris*, (Holmes) Holmes 1948, 1215, q.v.  
*Marmor dubium* var. *vulgaris*, Holmes 1939b, 42, q.v.  
Comment: Type variety of species *Marmor dubium*, Holmes 1939a, 435.
- Marmor dubium* var. *vulgaris*, Holmes 1939b, 42.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
*Annulus dubius* var. *vulgaris*, (Holmes) Holmes 1948, 1215, q.v.  
Comment: Type variety of species *Marmor dubium*, Holmes 1939b, 42.
- Marmor efficiens*, Johnson 1942, 114-115.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Pisumvirus maculosum*, Roland 1959, 129.  
Source: LEGUMINOSAE - *Trifolium repens*, L., white clover; *Pisum sativum*, L., pea.
- Marmor erodens*, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor erodens*, Holmes 1939b, 40, q.v.  
Type var. (orig. des.): *Marmor erodens* var. *vulgare*, Holmes 1939a, 435.
- Marmor erodens*, Holmes 1939b, 40; 1948, 1171.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor erodens*, Holmes 1939a, 435.  
*Foliopellis erodens*, (Holmes) Valteau 1940, 825, q.v., type species of genus *Foliopellis*, Valteau, 1940, 825.  
*Maphiflexus nico-erodens*, Hansen 1956, 123.  
*Nicotianavirus erodens*, Roland 1959, 130.  
Type var. (orig. des.): *Marmor erodens* var. *vulgare*, Holmes 1939b, 40.
- Marmor erodens* var. *severum*, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor erodens* var. *severum*, Holmes 1939b, 41, q.v.
- Marmor erodens* var. *severum*, Holmes 1939b, 41.  
(Var. Vir.) (Val. Pub., Leg.)  
*Marmor erodens* var. *severum*, Holmes 1939a, 435.
- Marmor erodens* var. *vulgare*, Holmes 1939a, 435.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor erodens* var. *vulgare*, Holmes 1939b, 40, q.v., type variety of species *Marmor erodens*, Holmes 1939b, 40.  
Comment: Type variety of species *Marmor erodens*, Holmes 1939a, 435.
- Marmor erodens* var. *vulgare*, Holmes 1939b, 40.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
*Marmor erodens* var. *vulgare*, Holmes 1939a, 435, type variety of species *Marmor erodens*, Holmes 1939a, 435.  
Comment: Type variety of species of *Marmor erodens*, Holmes 1939b, 40.
- Marmor euonymi*, Holmes 1939b, 51.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: CELASTRACEAE - *Euonymus japonica*, L. f. (sometimes written *Evonymus japonicus*). Probably also *E. radicans*, Sieb.
- Marmor fastidiens*, Holmes 1948, 1189.  
(Sp. Vir.) (Val. Pub., Leg.)  
Type var. (orig. des.): *Marmor fastidiens* var. *fastidiens*, Holmes 1948, 1190.  
Source: LEGUMINOSAE - *Trifolium hybridum*, L., alsike clover; *Pisum sativum*, L., pea (except the varieties *Horat*, *Perfection* and *Surprise*.)
- Marmor fastidiens* var. *denudans*, Holmes 1948, 1190.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor fastidiens* var. *fastidiens*, Holmes 1948, 1190.  
(Var. Vir.) (Val. Pub., Leg.)  
Comment: Type variety of species *Marmor fastidiens*, Holmes 1948, 1189.
- Marmor fastidiens* var. *mite*, Holmes 1948, 1190.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
non *Marmor mite*, Holmes 1939b, 53.
- Marmor fastidiens* var. *reprimens*, Holmes 1948, 1190.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor flaccumfaciens*, Holmes 1939b, 73.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Rosavirus flaccofaciens*, Roland 1959, 130.
- Marmor flavopunctum*, Zaumeyer and Thomas 1950, 858.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor fragariae*, Holmes 1939b, 78.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Fragariavirus crispans*, Roland 1959, 130.
- Marmor graminis*, McKinney 1944b, 325.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Bromusvirus maculans*, Roland 1959, 128.  
Source: GRAMINEAE - *Bromus inermis*, Leyss., awnless brome-grass.
- Marmor hyoscyami*, Holmes 1948, 1171.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Maphiflexus hyoscyami*, (Holmes) Hansen 1956, 123, q.v.  
*Hyoscyamusvirus maculans*, Roland 1959, 128.  
Source: SOLANACEAE - *Hyoscyamus niger*, L., henbane.
- Marmor iners*, Holmes 1948, 1190.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: LEGUMINOSAE - *Pisum sativum*, L., pea.
- Marmor iridis*, Holmes 1939b, 55.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Irisvirus maculans*, Roland 1959, 128.  
Source: IRIDACEAE - *Iris filifolia*, Boiss., I. *tingitana*, Boiss. and Reut., and I. *xiphium*, L., bulbous irises; *Iris ricardi*, Hort., I. *unguicularis*, Poir.; bearded iris, variety *William Mohr*.
- Marmor italicum*, Bitancourt 1953, 454.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c2, 14a2)  
*Marmor italicum*, (Fawcett) Holmes 1948, 1202, q.v.  
Comment: Type species of genus *Marmorodes*, Bitancourt 1953, 453.

- Marmor italicum, (Fawcett) Holmes 1948, 1202.  
(Sp. Vir.) (Val. Pub., Leg.)  
Citri-vir italicum, Fawcett 1940, 561; 1941, 357.  
Marmorodes italicum, Bitancourt 1953, 454,  
type species of genus Marmorodes, Bitancourt 1953,  
453.  
Citrusvirus maculans, Roland 1959, 128.  
Source: RUTACEAE - Citrus aurantium, L., sour  
orange.
- Marmor laburni, Holmes 1939b, 51.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: LEGUMINOSAE - Laburnum vulgare, Griseb.  
(L. anagyroides, Medic.), bean tree.
- Marmor lacerans, Holmes 1939b, 82.  
(Sp. Vir.) (Val. Pub., Leg.)  
Carpophthora lacerans, (Holmes) McKinney 1944a,  
152, type species of genus Carpopthora, McKinney  
1944a, 152, q.v.  
Daxeivirus pruni, Hansen 1956, 128,  
type species of genus Daxeivirus, Hansen 1956, 128.  
Persicavirus lacerans, Roland 1959, 129.  
Carpophthoravirus lacerans, (Holmes) Krieg 1961,  
150, type species of genus Carpopthoravirus, (sic)  
Krieg 1961, 150.
- Marmor lactucae, Holmes 1939b, 84.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: COMPOSITAE - Lactuca sativa, L., lettuce;  
Senecio vulgaris, L., groundsel.
- Marmor laesiofaciens, Zaumeyer and Harter 1943b, 305.  
(Sp. Vir.) (Val. Pub., Leg.)  
Minglobus phaseoli, Hansen 1956, 127.  
Phaseolusvirus laedens, Roland 1959, 128.  
Source: LEGUMINOSAE - Phaseolus vulgaris, L.,  
bean.
- Marmor laesiofaciens var. minus, Zaumeyer and Harter  
1943, 305.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor laesiofaciens var. minor, Smith 1957, 63.
- Marmor leguminosarum, Holmes 1939b, 89.  
(Sp. Vir.) (Val. Pub., Leg.)  
Aphidophilus pisi, Ryzhkov 1952, 465.
- Marmor lethale, Holmes 1939b, 86.  
(Sp. Vir.) (Val. Pub., Leg.)  
Crystallococcus tabaci, Ryzhkov 1952, 465.  
Ginivirus nico-gamma, Hansen 1956, 126,  
type species of genus Ginivirus, Hansen 1956, 126.  
Ginglobus nico-gamma, Hansen 1956, 127,  
type species of genus Ginglobus, Hansen 1956, 127.  
Nicotianavirus letale, (sic) Roland 1959, 130.  
Source: SOLANACEAE - Nicotiana tabacum, L.,  
tobacco; N. glutinosa, L.; N. langsdorffii, Weinm.;  
Lycopersicon esculentum, Mill., tomato; Solanum  
nigrum, L. COMPOSITAE - Aster. GERANIACEA -  
Pelargonium hortorum, Bailey. LEGUMINOSAE -  
Phaseolus vulgaris, L., bean.
- Marmor ligustri, Holmes 1939b, 52.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: OLERACEA - Ligustrum vulgare, L., common  
privet.
- Marmor lilii, Heinze 1959, 91, 179, 245.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 7)  
not Marmor cucumeris var. lilii, Holmes 1939b, 37.  
Liliumvirus rosettans, Roland 1959, 129.
- Marmor lineopictum, Cation 1941, 1009.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor pallidolimbatus, Zeller and Milbrath 1942,  
635.  
Annulus pruni var. artum, Christoff 1958, 390.  
Source: ROSACEAE - Prunus salicina, Lindl.,  
Japanese plum; P. mahaleb, L., mahaleb cherry;  
P. persica, (L.) Batsch, peach (Amygdalus persica,  
L.)
- Marmor maidis, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor maidis, Holmes 1939b, 56, q.v.  
Fractilinea maidis, (Holmes) McKinney 1944a, 149,  
q.v., type species of genus Fractilinea, McKinney  
1944a, 148.
- Marmor maidis, Holmes 1939b, 56.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor maidis, Holmes 1939a, 435.  
Fractilinea maidis, (Holmes) McKinney 1944a, 149,  
q.v., type species of genus Fractilinea, McKinney  
1944a, 148.  
Dacicavirus zeae, Hansen 1956, 125.  
Zeavirus virgatum, Roland 1959, 129.  
Described as Marmor maidis var. typicum, Holmes  
1948, 1159, 56.  
Source: Maize.
- Marmor maidis var. mite, Holmes 1939b, 56.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
not Marmor mite, Holmes 1939b, 53.  
Fractilinea maidis var. mitis, (Holmes) Holmes  
1948, 1160, q.v.
- Marmor maidis var. sacchari, Holmes 1939b, 57.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
not Marmor sacchari, Holmes 1939b, 60.  
Fractilinea maidis var. sacchari, (Holmes) Holmes  
1948, 1159.
- Marmor maidis var. typicum, Holmes 1939b, 56.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Fractilinea maidis var. typicum, (Holmes) Holmes  
1948, 1159, q.v., type variety of species Fractilinea  
maidis, (Holmes) Holmes 1948, 1159.  
Zeavirus virgatum, Roland 1959, 129.  
Comment: Type variety of species Marmor maidis,  
Holmes 1939b, 56.
- Marmor mali, Holmes 1939b, 75.  
(Sp. Vir.) (Val. Pub., Leg.)  
Pyrusvirus maculans, Roland 1959, 127.  
Source: ROSACEAE - Pyrus malus, L., apple.
- Marmor malvae var. chlorogenus, Hein 1956, 233.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor malvae var. vulgare, Hein, 1956, 233.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor malvae,  
Hein 1956, 233.
- Marmor manifestum, Frandsen 1952, 415.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor marginans, Holmes 1939b, 79.  
(Sp. Vir.) (Val. Pub., Leg.)  
Fragariavirus marginans, Roland 1959, 130.  
Source: ROSACEAE - Fragaria hybrids, strawberries;  
F. californica, C. and S.; F. chiloensis, Duch.  
(symptomless).
- Marmor matthiolae, Holmes 1939b, 71.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor brassicae, Holmes 1939b, 70, q.v.
- Marmor medicaginis, Holmes 1939b, 91.  
(Sp. Vir.) (Val. Pub., Leg.)  
Crystallococcus medicaginis, Ryzhkov 1952, 465.  
Medicagovirus maculans, Roland 1959, 129.  
Type var. (subs. des.): Marmor medicaginis var.  
typicum, Black and Price 1940, 446.  
Source: LEGUMINOSAE - Medicago sativa, L.,  
alfalfa (lucerne). SOLANACEAE - Solanum tuberosum,  
L., potato.
- Marmor medicaginis var. capsici, Berkeley 1947, 789.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor medicaginis var. flavovarians, Zaumeyer 1953,  
(Var. Vir.) (Val. Pub., Leg.) 42.
- Marmor medicaginis var. ladino, Kreitlow and Price  
1949, 526.  
(Var. Vir.) (Val. Pub., Leg.)

- Marmor medicaginis var. phaseoli, Thomas 1951, 973.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
non Marmor phaseoli, Holmes 1939b, 87.
- Marmor medicaginis var. solani, Black and Price 1940,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7) 446.  
non Marmor solani, Holmes 1939b, 47.
- Marmor medicaginis var. solani, Black and Price 1940,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7) 446.  
Medicago virus parvum, Roland 1952, 53.
- Marmor medicaginis var. typicum, Black and Price 1940,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7) 446.  
Comment: Type variety of species Marmor medicaginis,  
Holmes 1939b, 91.
- Marmor melonis, Rader, Fitzpatrick and Hildebrand  
1947, 815.  
(Sp. Vir.) (Val. Pub., Leg.)  
Cucumisvirus vastans, Roland 1959, 129.
- Marmor melonis var. obscurum, Anderson 1954c, 373.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
non Marmor tabaci var. obscurum, Holmes 1939b, 26.
- Marmor mexicanum, Yerkes and Patino 1960, 338.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor mite, Holmes 1939b, 53.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: LILIACEAE - Liliium amabile; L. auratum,  
Lindl.; L. canadense, L.; L. candidum, L.; L.  
cernuum; L. chalcedonicum; L. croceum, Chaix.; L.  
davmottiae; L. elegans, Thunb.; L. formosanum,  
Stapf.; L. giganteum; L. henryi, Baker; L.  
leucanthemum; L. longiflorum, Thunb.; L.  
myriophyllum; L. pumilum; L. regale, Wils.; L.  
sargentiae, Wils.; L. speciosum, Thunb.; L.  
superbum, L.; L. testaceum, Lindl.; L. tigrinum,  
Ker.; L. umbellatum, Hort.; L. wallacei; Tulipa  
gesneriana, L., garden tulip; T. clusiana, Vent.;  
T. linifolia, Regel.
- Marmor nerviclarens, Zeller and Evans 1941, 467.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - Prunus avium, L., sweet  
cherry. Perhaps also P. serrulata, Lindl. and P.  
domestica, L., on which symptoms similar to those  
induced by this virus have been observed.
- Marmor oryzae, Holmes 1939b, 64.  
(Sp. Vir.) (Val. Pub., Leg.)  
Fractilinea oryzae, (Holmes) Holmes 1948, 1160, q.v.  
Oryzavirus nanescens, Roland 1959, 130.  
Fractilineavirus oryzae, (Holmes) Krieg 1961, 147.
- Marmor pachyrhizi, Holmes 1948, 1188.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: LEGUMINOSAE - Pachyrhizus erosus, (L.)  
Urb. sincamas (yam bean)
- Marmor pallidolimbatus, Zeller and Milbrath 1942, 50,  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a) 635.  
Marmor lineopictum, Cation 1941, 1009, q.v.  
Source: ROSACEAE - Prunus serrulata, Lindl.,  
flowering cherry; P. avium, L., Mazzard cherry.
- Marmor papavae, Capoor and Varma 1958, 231.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor passiflorae, Holmes 1939b, 77.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: PASSIFLORACEAE - Passiflora edulis, Sims,  
passion fruit; P. caerulea, L.
- Marmor pelargonii, Holmes 1948, 1199.  
(Sp. Vir.) (Val. Pub., Leg.)  
Pelargoniumvirus crispans, Roland 1959, 129.  
Source: GERANIACEAE - Pelargonium hortorum,  
Bailey, geranium.
- Marmor persicae, Holmes 1939b, 81.  
(Sp. Vir.) (Val. Pub., Leg.)  
Flavimacula persicae, (Holmes) McKinney 1944a, 149,  
q.v., type species of genus Flavimacula, McKinney  
1944a, 149.  
Annulus pruni, Christhoff 1958, 383.  
Persicavirus maculans, Roland 1957, 129.  
Source: ROSACEAE - Prunus persica, (L.) Batsch,  
peach and nectarine, all tested varieties.
- Marmor phaseoli, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor phaseoli, Holmes 1939b, 87, q.v.
- Marmor phaseoli, Holmes 1939b, 87.  
(Sp. Vir.) (Val. Pub., Leg.)  
non Marmor cucumeris var. phaseoli, Holmes 1939b,  
Marmor phaseoli, Holmes 1939a, 435. 36.  
Aphidophilus phaseoli, Ryzhkov 1952, 465.  
Phaseolusvirus maculans, Roland 1959, 128.  
Source: LEGUMINOSAE - Phaseolus vulgaris, L.,  
bean.
- Marmor pintofolium, Kienholz 1947, 66.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor pisi, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor pisi, Holmes 1939b, 90, q.v.
- Marmor pisi, Holmes 1939b, 90.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor pisi, Holmes 1939a, 435.  
Pisumvirus verrucans, Roland 1959, 129.  
Source: LEGUMINOSAE - Pisum sativum, L., pea;  
Vicia faba, L., broad bean.
- Marmor primulae, Holmes 1948, 1201.  
(Sp. Vir.) (Val. Pub., Leg.)  
Primulavirus maculans, Roland 1959, 129.  
Source: PRIMULACEAE - Primula obconica, Hance.
- Marmor pyri, Holmes 1939b, 76.  
(Sp. Vir.) (Val. Pub., Leg.)  
Rimocortius pyri, (Holmes) Holmes 1948, 1211, q.v.  
Pinivirus pyri, (Holmes) Hansen 1956, 126, q.v.  
Pyrusvirus lignificans, Roland 1959, 129.
- Marmor quartum, Holmes 1939b, 65.  
(Sp. Vir.) (Val. Pub., Leg.)  
Fractilinea quarta, (Holmes) Holmes 1948, 1161, q.v.
- Marmor raphani, Holmes 1948, 1200.  
(Sp. Vir.) (Val. Pub., Leg.)  
Maphichorda raphani, (Holmes) Hansen 1956, 123, q.v.,  
type species of genus Maphichorda, Hansen 1956, 123.  
Maphivirus raphani, (Holmes) Hansen 1958, 222.  
Raphanusvirus maculans, Roland 1959, 130.  
Source: CRUCIFERAE - Raphanus sativus, L., radish.
- Marmor repens, Johnson 1942, 114.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: LEGUMINOSAE - Trifolium repens, L.,  
white clover.
- Marmor rhei, Klinkowski 1958a, 278.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor rosae, Holmes 1939b, 74; 1948, 1194.  
(Sp. Vir.) (Val. Pub., Leg.)  
Rosavirus maculans, Roland 1959, 130.  
Source: ROSACEAE - Rosa rugosa, Thunb.; R.  
chinensis, Jacq., var. nanetti, Dipp.; R. multiflora,  
Thunb.; R. odorata, Sweet, tea rose; R. gymnocarpa;  
Rubus parviflorus, Nutt.
- Marmor rubi, Holmes 1939b, 80.  
(Sp. Vir.) (Val. Pub., Leg.)  
Poecile rubi, (Holmes) McKinney 1944a, 148, q.v.,  
type species of genus Poecile, McKinney 1944a, 148.

- Marmor rubi, Holmes 1939b, 80.  
(Sp. Vir.) (Val. Pub., Leg.)  
Poecile rubi, McKinney 1944, 148.  
Source: ROSACEAE - *Rubus idaeus*, L., red raspberry;  
*R. occidentalis*, L., black raspberry.
- Marmor rubiginosum, Fawcett 1940, 789.  
(Sp. Vir.) (Val. Pub., Leg.)  
Prunivir rubiginosum, Fawcett 1940, 560.  
Cerasusvirus rubiginosum, Roland 1959, 128.
- Marmor sacchari, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Phytamoeba sacchari, McWhorter 1922, 110, q.v.,  
type species of genus Phytamoeba, McWhorter 1922,  
109.
- Marmor sacchari, Holmes 1939b, 60.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Phytamoeba sacchari, McWhorter 1922, 110, q.v.,  
type species of genus Phytamoeba, McWhorter 1922,  
Sugarcane mosaic virus. 109.  
Source: GRAMINEAE - *Saccharum officinarum*, L.,  
sugarcane; *Holcus sorghum*, L., sorghum; *H.*  
*sudanensis*, Bailey, Sudan grass; *Brachiaria*  
*plataphylla*, Nash; *Chaetochloa magna*, Scribn.; *C.*  
*verticillata*, Scribn.; *Paspalum boscianum*, Flugge;  
*Syntherisma sanguinale*, Dulac.
- Marmor santali, Holmes 1939b, 84.  
(Sp. Vir.) (Val. Pub., Leg.)  
Santalumvirus crispans, Roland 1959, 130.  
Sandal leaf-curl virus  
Source: SANTALACEAE - *Santalum album*, L.,  
sandal.
- Marmor scillearum, Smith and Brierley 1944, 503.  
(Sp. Vir.) (Val. Pub., Leg.)  
Ornithogalumvirus maculans, Roland 1959, 129.  
Ornithogalum mosaic virus.  
Source: LILIACEAE (of the tribe Scillaea) -  
Ornithogalum thyrosoides, Jacq.; probably also  
*Galtonia candicans*, Decne.; *Hyacinthus orientalis*, L.,  
hyacinth; *Lachenalia* spp.
- Marmor secretum, Bennett 1944a, 88, 89.  
(Sp. Vir.) (Val. Pub., Leg.)  
Cuscutavir secretum, (Bennett) Bennett 1944a, 89.  
Cuscutavirus occultum, Roland 1959, 128.  
Dodder latent-mosaic virus.  
Source: CONVOLVULACEAE - *Cuscuta californica*,  
Choisy, dodder.
- Marmor senecionis, Klinkowski 1954, 698.  
(Sp. Vir.) (Val. Pub., Leg.)  
Seneciovirus maculans, Roland 1959, 128.
- Marmor sohjae, Heinze 1959, 57, 162, 167, 175.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor solani, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor solani, Holmes 1939b, 47, q.v.
- Marmor solani, Holmes 1939b, 547.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor solani, Holmes 1939a, 435.  
*Solanumvirus alphaicum*, Kohler 1952b, 52.  
*Solanum virus parvathermis*, Roland 1952, 53.  
*Solanumvirus A-nominatum*, Roland 1959, 129.
- Marmor tabaci, Holmes 1939a, 434.  
(Sp. Vir.) (Not Val. Publ.: Rule 12a2)  
Protobios mosaicus, d'Herelle 1924, 343, q.v.  
Type sp. of genus Marmor, Holmes 1939a, 434.
- Marmor tabaci, (d'Herelle) Holmes 1939b, 17.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Protobios mosaicus, d'Herelle 1924, 343, q.v.  
Type sp. of genus Marmor, Holmes 1939b, 16.  
Described as Marmor tabaci var. vulgare, Holmes  
1939b, 17.
- Marmor tabaci, Holmes 1948, 1164.  
(Sp. Vir.) (Val. Pub., Leg.)  
Musivum tabaci, Valteau 1940, 822.  
Phytovirus nicomosaicum, Thornberry 1941, 23.  
Tobacco mosaic virus, tomato mosaic virus.  
Source: SOLANACEAE - *Nicotiana tabacum*, L.,  
tobacco; *Lycopersicon esculentum*, Mill., tomato; and  
*Capsicum frutescens*, L., garden pepper.  
PLANTAGINACEAE - *Plantago lanceolata*, L., ribgrass,  
*P. major*, L. and *P. rugelii*, Decne., common broad-  
leaved plantains.  
Described as Marmor tabaci var. vulgare, Holmes  
1939b, 17.
- Marmor tabaci subsp. dahlemense, Melchers 1942, 48.  
(Subsp. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor tabaci subsp. dahlemense var. luridum,  
Melchers 1942, 48.  
(Var. Vir.) (Val. Pub., Illeg.: Principle 7)
- Marmor tabaci var. artum, Holmes 1939b, 27.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor tabaci var. aucuba, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor tabaci var. aucuba, Holmes 1939b, 20, q.v.
- Marmor tabaci var. canadense, Holmes 1939b, 23.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor tabaci, var. deformans, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor tabaci var. deformans, Holmes 1939b, 22,  
q.v.
- Marmor tabaci var. deformans, Holmes 1939b, 22.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
Marmor tabaci var. deformans, Holmes 1939a, 434.
- Marmor tabaci var. immobile, Holmes 1939b, 26.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor tabaci var. lethale, Holmes 1939b, 24.  
(Var. Vir.) (Val. Pub., Illeg.: Rules 7 and 24b)  
not Marmor lethale, Holmes 1939b, 86.
- Marmor tabaci var. luridum, Melchers 1942, 48.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor tabaci var. obscurum, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor tabaci var. obscurum, Holmes 1939b, 25,  
q.v.
- Marmor tabaci var. obscurum, Holmes 1939b, 25.  
(Var. Vir.) (Val. Pub., Leg.)  
Marmor tabaci var. obscurum, Holmes 1939a, 434.
- Marmor tabaci var. plantaginis, Holmes 1941, 1097.  
(Var. Vir.) (Val. Pub., Leg.)  
Musivum tabaci var. plantaginis, (Holmes) Valteau  
and Johnson 1943, 219.
- Marmor tabaci var. rosettae, Price and Fenne 1951,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b) 1096.
- Marmor tabaci var. siccans, Doolittle and Beecher 1942,  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b) 994.
- Marmor tabaci var. vulgare, Holmes 1939a, 434.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)  
Protobios mosaicus var. tabaci, d'Herelle 1924, 343,  
q.v.
- Marmor tabaci var. vulgare, Holmes 1939b, 17.  
(Var. Vir.) (Val. Pub., Illeg.: Rules 7 and 24b)  
Protobios mosaicus var. tabaci, d'Herelle 1924, 343,  
q.v.
- Marmor tabacum, (sic) Melchers 1942, 48.  
Marmor tabaci, Holmes 1939b, 17, q.v.
- Marmor tabacum (sic) var. flavum, Melchers 1942, 48.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor tabacum (sic) var. tenue, Melchers 1942, 48.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)



- Marmor taraxaci, Klinkowski 1954, 702.  
(Sp. Vir.) (Val. Pub., Leg.)  
Leptomotropus taraxaci, Ryzhkov 1952, 466.  
Taraxacumvirus flavescens, Roland 1959, 128.
- Marmor terrestre, McKinney 1946, 366.  
(Sp. Vir.) (Val. Pub., Leg.)  
Type var. (orig. des.): Marmor terrestre var. typicum, McKinney 1946, 366.
- Marmor terrestre var. oculatum, McKinney 1946, 368.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor terrestre var. typicum, McKinney 1946, 368.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor terrestre, McKinney 1946, 366.
- Marmor theobromae, Posnette 1947, 390.  
(Sp. Vir.) (Val. Pub., Leg.)  
Dacovirus theobromae, (Posnette) Hansen 1956, 129, q. v., type species of genus Dacovirus, Hansen 1956, 129.  
Theobromavirus inflans, Roland 1959, 128.  
Type var. (monotype): Marmor theobromae var. A, Posnette 1947, 391.
- Marmor theobromae var. A, Posnette 1947, 391.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of Marmor theobromae, Posnette 1947, 390.
- Marmor theobromae (sic) var. A, Heinze 1959, 104.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2)
- Marmor trifolii, Holmes 1939b, 93.  
(Sp. Vir.) (Val. Pub., Leg.)  
Trifoliumvirus nervimaculans, Roland 1959, 128.
- Marmor tritici, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor tritici, Holmes 1939b, 61; McKinney 1944b, 323, q. v.
- Marmor tritici, Holmes 1939b, 61; McKinney 1944b, 323.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor tritici, Holmes 1939a, 435.  
Ginivirus tritici, Hansen 1956, 126.  
Triticumvirus maculans, Roland 1959, 130.  
Type var. (subs. des.): Marmor tritici var. typicum, McKinney 1944b, 323.
- Marmor tritici var. fulvum, McKinney 1944b, 324.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor tritici var. typicum, McKinney 1944b, 323.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor tritici, Holmes 1939b, 61.
- Marmor tulipae, Holmes 1939b, 52.  
(Sp. Vir.) (Val. Pub., Leg.)  
Aphidophilus tulipae, Ryzhkov 1952, 465.  
Tulipavirus vulgare, Roland 1959, 130.  
Source: LILLIACEAE - Tulipa gesneriana, L., garden tulip; T. eichleri, Regel; T. greigi, Regel.
- Marmor umbelliferarum, Holmes 1939b, 67.  
(Sp. Vir.) (Val. Pub., Leg.)  
Apiumvirus maculans, Roland 1959, 128.
- Marmor upsilon, (Holmes) Holmes 1948, 1172.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor cucumeris var. upsilon, Holmes 1939a, 434.  
Marmor cucumeris var. upsilon, Holmes 1939b, 33.  
Murialba venetaenia, Valleau 1940, 824.  
Vectomarmor upsilon, Limasset 1948, 293, type species of genus Vectomarmor, Limasset 1948, 293.  
Aphidophilus tuberosi, Ryzhkov 1952, 465.  
Solanum virus inpermanens, Roland 1952, 53.  
Solanumvirus ypsilonicum, Kohler 1952, 51.  
Maphiflexus solani, Hansen 1956, 123, type species of genus Maphiflexus, Hansen 1956, 123.  
Solanumvirus Y-nominatum, Roland 1959, 129.
- Marmor valvolarum, Zaumeyer and Thomas 1948, 95.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor vastans, Holmes 1939b, 94.  
(Sp. Vir.) (Val. Pub., Leg.)  
Aureogenus vastans, (Holmes) Black 1944, 141, q. v., type species of genus Aureogenus, Black 1944, 141.  
Solanumvirus vastans, (Holmes) Kohler 1952, 51.  
Solanum virus aceratagalliatranslatum, (sic) Roland 1952, 53.  
Agalliophilus tuberosi, Ryzhkov 1952, 466, type species of genus Agalliophilus, Ryzhkov 1952, 466.  
Mecicavirus solani, Hansen 1956, 124, 466.  
type species of genus Mecicavirus, Hansen 1956, 124.  
Aureogenusvirus vastans, (sic) Krieg 1961, 146, type species of genus Aureogenusvirus, Krieg 1961, 146.
- Marmor vastans var. agalliae, Black 1941, 233.  
(Var. Vir.) (Val. Pub., Leg.)  
Aureogenus vastans var. agalliae, (Black) Black 1944, 141.
- Marmor vastans var. lethale, Black 1940, 391.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
not Marmor lethale, Holmes 1939, 86.  
Aureogenus vastans var. lethale, (Black) Holmes 1948, 1156.
- Marmor vastans var. vulgare, Black 1940, 391.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Aureogenus vastans var. vulgare, (Black) Black 1944, 141, type variety of Aureogenus vastans, (Holmes) Black 1944, 141.
- Marmor veniferum, Holmes 1939b, 75.  
(Sp. Vir.) (Val. Pub., Leg.)  
Rosavirus caulomaculans, Roland 1959, 130.
- Marmor vignae, Holmes 1948, 1188.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 7)  
non Marmor cucumeris var. vignae, Holmes 1939b, 39.  
Vignavirus maculans, Roland 1959, 128.
- Marmor vignae var. catjang, Capoor and Varma 1956, 101.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Marmor virgatum, McKinney 1944b, 324.  
(Sp. Vir.) (Val. Pub., Leg.)  
Macavirus tritici, Hansen 1958, 223, type species of genus Macavirus, Hansen 1958, 223.  
Type var. (orig. des.): Marmor virgatum var. typicum, McKinney 1944b, 325.
- Marmor virgatum var. typicum, McKinney 1944b, 325.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
Comment: Type variety of species Marmor virgatum, McKinney 1944b, 325.
- Marmor virgatum var. viride, McKinney 1944b, 325.  
(Var. Vir.) (Val. Pub., Leg.)
- Marmor viticola, Holmes 1939b, 83.  
(Sp. Vir.) (Val. Pub., Leg.)
- Marmor zaeae, Holmes 1939b, 59.  
(Sp. Vir.) (Val. Pub., Leg.)  
Fractilinea zaeae, (Holmes) Holmes 1948, 1161, q. v.  
Zeavirus maculans, Roland 1959, 129.  
Fractilineavirus zaeae, (Holmes) Krieg 1961, 149.
- MARMORACEAE, Holmes Emend. 1949, 16. (Family)  
(B. '48, 1163)
- Marmorodes, Bitancourt 1953, 453.  
(Gen. Vir.) (Not Val. Pub.: Rule 12c2)  
Type sp. (monotype): Marmorodes italicum, Bitancourt 1953, 454.
- MATTHIOLAVIRUS
- Matthiolavirus maculans, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor brassicae, Holmes 1939b, 70, q. v.

- MECICAVIRUS**, Hansen 1956, 124.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Aureogenus, Black 1944, 141, q.v.  
Type sp. (orig. des.): *Mecicavirus solani*, Hansen 1956, 124.
- Mecicavirus solani*, Hansen 1956, 124.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor vastans, Holmes 1939b, 94, q.v.  
Aureogenus vastans, (Holmes) Black 1944, 141, q.v.,  
type species of genus *Aureogenus*, Black 1944, 141.  
Comment: Type species of genus *Mecicavirus*,  
Hansen 1956, 124.
- MEDICAGINIVIR**, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)  
Morsus, Holmes 1948, 1153, q.v.
- MEDICAGOVIRUS**
- Medicagovirus everriculosum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus medicaginis, Holmes 1939b, 14, q.v.
- Medicagovirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor medicaginis, Holmes 1939b, 91, q.v.
- Medicagovirus nanescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Morsus suffodiens, Holmes 1948, 1153, q.v., type  
species of genus *Morsus*, Holmes 1948, 1153.
- Medicagovirus parvum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor medicaginis var. *solani*, Black and Price  
1940, 446, q.v.
- MEHETVIRUS**, Hansen 1956, 130.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Mehetvirus brassicae*, Hansen  
1956, 130.
- Mehetvirus brassicae*, Hansen 1956, 130.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Savoia napi*, Holmes 1939, 133, q.v.
- METHYVIRUS**, Hansen 1956, 129.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Lethum, Holmes 1939b, 135, q.v.  
Type sp. (orig. des.): *Methyvirus lethum*, Hansen  
1956, 129.
- Methyvirus lethum*, Hansen 1956, 129.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
*Lethum australiense*, Holmes 1939b, 136, q.v.  
Comment: Type species of genus *Methyvirus*, Hansen  
1956, 129.
- MEXEGLOBUS**, Hansen 1958, 222.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Murialba, Valteau 1940, 823, q.v.  
Type sp.: *Mexeglobus cucurbitae*, Hansen 1958, 222.
- Mexeglobus cucurbitae*, Hansen 1958, 222.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
*Murialba cucumeris*, (Holmes) Valteau 1940, 823, q.v.  
Type sp. of genus *Mexeglobus*, Hansen 1958, 222.
- MEXEVIRUS**, Hansen 1956, 128.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23, 24a)  
Acrogenus, Holmes 1939b, 110, q.v.  
Type sp. (orig. des.): *Mexevirus solani*, (Holmes)  
Hansen 1956, 128.
- Mexevirus cucurbitae*, Hansen 1956, 128.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
*Murialba cucumeris*, (Holmes) Valteau 1940, 823, q.v.
- Mexevirus helianthi*, Hansen 1956, 128.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor dahliae, Holmes 1939b, 85, q.v.  
*Nervillustrans dahliae*, (Holmes) Limasset 1948, 293,  
q.v., type species of genus *Nervillustrans*, Limasset  
1948, 293.
- Mexevirus solani*, (Holmes) Hansen 1956, 128.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Acrogenus solani*, Holmes 1939b, 111, q.v.,  
type species of genus *Acrogenus*, Holmes 1939b, 110.  
Comment: Type species of genus *Mexevirus*, Hansen  
1956, 128.
- MINCHORDA**, Hansen 1956, 126.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor, Holmes 1939a, 16, q.v.  
Type sp. (orig. des.): *Minchorda nicotianae*, Hansen  
1956, 126.
- Minchorda cucumeris*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor *strictum* var. *chlorogenum*, Holmes 1939b,  
27, q.v.
- Minchorda hordei*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Gaphivirus avenae*, Hansen 1958, 222.  
*Hordeumvirus nanescens*, Klinkowski and Kreutzberg  
1958, 9.  
Comment: Although this binomial is illegitimate, the  
species was validly described so that the specific  
epithet is available.
- Minchorda nicotianae*, Hansen 1956, 125, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rules 23 and 24a)  
*Protobios mosaicus*, d'Herelle 1924, 343, q.v.  
Type sp. of genus *Minchorda*, Hansen 1956, 126.
- MINFLEXUS**, Hansen 1956, 127.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Solanophilus*, Ryzhkov 1952, 465, q.v.  
Type sp. (orig. des.): *Minflexus solani*, Hansen 1956,  
127.
- Minflexus solani*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor *dubium*, Holmes 1939b, 42, q.v.  
*Annulus dubius*, (Holmes) Holmes 1948, 1214, q.v.
- MINGLOBUS**, Hansen 1956, 127.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Annulus*, Holmes 1939b, 97, q.v.  
Type sp. (orig. des.): *Minglobus nico-orbis*, Hansen  
1956, 127.
- Minglobus dianthi-orbis*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Minglobus nico-orbis*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Annulus tabaci*, Holmes 1939b, 98, q.v.  
Type sp. of genus *Minglobus*, Hansen 1956, 127.
- Minglobus phaseoli*, Hansen 1956, 127.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor *laesiofaciens*, Zaumeyer and Harter 1943b,  
305, q.v.
- MINUOR**, Zeller and Braun 1943, 161.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Minuor ruborum*, Zeller and  
Braun 1943, 161.
- Minuor ruborum*, Zeller and Braun 1943, 161.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Corium ruborum*, (Zeller and Braun) Holmes 1948,  
1205, q.v.  
Comment: Type species of genus *Minuor*, Zeller and  
Braun 1943, 161.
- MINVIRUS**, Hansen 1956, 125.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor, Holmes 1939a, 16.  
Type sp. (orig. des.): *Minivirus nicotianae*, Hansen  
1956, 125.
- Minivirus nico-orbis*, Hansen 1958, 222.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Annulus tabaci*, Holmes 1939b, 98, q.v.
- Minivirus nicotianae*, Hansen 1956, 126.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Protobios mosaicus*, d'Herelle 1924, 343, q.v.  
Type sp. of genus *Minivirus*, Hansen 1956, 125.

- Minivirus solani*, Hansen 1958, 222.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor dubium*, Holmes 1939b, 42, q.v.  
*Annulus dubius*, (Holmes) Holmes 1948, 1214, q.v.
- MORSUS**, Holmes 1948, 1153.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Medicagininivir*, Fawcett 1940, 560.  
Type sp. (orig. des.): *Morsus suffodiens*, Holmes 1948, 1153.
- Morsus reprimens*, Holmes 1948, 1154.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Nicotianavirus nanescens*, Roland 1959, 130.
- Morsus suffodiens*, Holmes 1948, 1153.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Dacicavirus medi-vitis*, Hansen 1956, 125.  
*Medicagovirus nanescens*, Roland 1956, 1152.  
Comment: Type species of genus *Morsus*, Holmes 1948, 1153.
- Morsus ulmi*, Holmes 1948, 1154.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Ulmusvirus librinescans*, Roland 1959, 128.
- MORSUSVIRUS**
- Morsusvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- MURIALBA**, Valleau 1940, 823.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Virococcus*, Ryzhkov 1952, 465.  
*Aphidophilus*, Ryzhkov 1952, 465.  
*Maphiglobus*, Hansen 1956, 124.  
*Mexeglobus*, Hansen 1958, 222.  
Type sp. (Implied): *Murialba cucumeris*, (Holmes) Valleau 1940, 823.
- Murialba cucumeris*, (Holmes) Valleau 1940, 823.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor cucumeris*, Holmes 1939a, 434.  
*Marmor cucumeris*, Holmes 1939b, 31, q.v.  
*Aphidophilus cucumeris*, (Holmes) Ryzhkov 1952, 465, type species of genus *Aphidophilus*, Ryzhkov 1952, 465.  
*Virococcus cucurbitae*, Ryzhkov 1952, 465, type species of genus *Virococcus*, Ryzhkov 1952, 465.  
*Phytovirus paracrystalis* var. *cucumis*, Bawden 1953 543.  
*Aphidophilus cucurbitae*, Kohler and Klinkowski 1954, 677.  
*Maphiglobus cucumeris*, (Holmes) Hansen 1956, 124, type species of genus *Maphiglobus*, Hansen 1956, 124.  
*Mexevirus cucurbitae*, Hansen 1956, 128.  
*Mexeglobus cucurbitae*, Hansen 1958, 222, type species of the genus *Mexeglobus*, Hansen 1956, 124.  
*Maphivirus cucumeris*, Hansen 1958, 222.  
*Cucurbitavirus maculans*, Roland 1959, 130.  
*Cucumisvirus maculans*, Roland 1959, 128.  
Comment: Type species of genus *Murialba*, Valleau 1940, 823.
- Murialba venataenia*, Valleau 1940, 824.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor upsilon*, Holmes 1948, 1172.  
Described as *Marmor cucumeris* var. *upsilon*, Holmes 1939b, 33.  
Source: SOLANACEAE - *Solanum tuberosum*, L., potato; *Nicotiana tabacum*, L., tobacco.
- MUSAVIRUS**
- Musavirus deformans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Musavirus rosettans*, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor abaca*, Holmes 1939b, 63, q.v.
- MUSIVUM**, Valleau 1940, 822.  
(Gen. Vir.) (Val. Pub., Illeg.: Rules 23 and 24a)  
*Marmor*, Holmes 1939a, 16.  
Type sp. (orig. des.): *Musivum tabaci*, (Holmes) Valleau 1940, 822.
- Musivum astrictum*, Valleau 1940, 823.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Marmor astrictum* var. *chlorogenum*, Holmes 1939b, 27, q.v.
- Musivum tabaci*, (d'Herelle) Valleau 1940, 822.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Protobios mosaicus*, d'Herelle 1924, 343.  
Type sp. of genus *Musivum*, Valleau 1940, 822.
- Musivum tabaci* var. *plantaginis*, (Holmes) Valleau and Johnson 1943, 219.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Marmor tabaci* var. *plantaginis*, Holmes 1941, 1097, q.v.
- NANUS**, Holmes 1939b, 123.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type species: *Nanus loganobacci*, Holmes 1939b, 124.
- Nanus cupuliformans*, Zeller and Weaver 1941, 851.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - *Fragaria chiloensis*, Duch., var. *ananassa*, Bailey, cultivated strawberry.
- Nanus fragariae*, Holmes 1939b, 128.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Blastogenus fragariae*, McKinney 1944, 151.  
Source: ROSACEAE - *Fragaria chiloensis*, Duch., var. *ananassa*, Bailey, cultivated strawberry.
- Nanus holodisci*, Holmes 1939b, 127.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - *Holodiscus discolor*, Max., ocean spray.
- Nanus loganobacci*, Holmes 1939b, 124.  
(Sp. Vir.) (Val. Pub., Leg.)  
Type species of genus *Nanus*, Holmes 1939b, 124.  
Source: ROSACEAE - *Rubus loganobaccus*, Bailey, loganberry and phenomenal berry.
- Nanus mirabilis*, Holmes 1939b, 126.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - *Prunus persica*, (L.) Batsch, peach.
- Nanus orientalis*, Holmes 1939b, 124.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - *Rubus occidentalis*, L., black raspberry.
- Nanus pruni*, Holmes 1939b, 128.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: ROSACEAE - *Prunus domestica*, L., var. *insititia*, Bailey, the Damson plum, remains symptomless.
- Nanus rosettae*, Holmes 1939b, 125.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Carpophthora rosettae*, (Holmes) 1948, 1152.
- Nanus sacchari*, Holmes 1939b, 129.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: GRAMINEAE - *Saccharum officinarum*, L., sugarcane.
- NORTHIELLA**, Likhite 1929, 15.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Phytamoeba*, McWhorter 1922, 110, q.v.  
Type sp. (monotype): *Northiella sacchari*, Likhite 1929, 15.  
Comment: Likhite ascribes the generic name *Northiella* to Lyon. McWhorter (1922, 103) states that Lyon in an unpublished manuscript, . . . proposed the name *Northiella sacchari*, for the organism, i.e., the foreign bodies found in the cell protoplasm of sugar cane attacked by "Fiji disease".
- Northiella sacchari*, "Lyon" in Likhite 1929, 15 (sed non Lyon 1910)  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Phytamoeba sacchari*, McWhorter 1922, 110, q.v., type species of genus *Phytamoeba*, McWhorter 1922, *Marmor sacchari*, Holmes 1939a, 435, 109.  
*Marmor sacchari*, Holmes 1939b, 60.  
*Saccharumvirus maculans*, Roland 1959, 130.  
Comment: Type species of genus *Northiella*, Likhite 1929, 15.

## NOTHOSCORDUMVIRUS

*Nothoscordumvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor angustum, McKinney 1950, 705, q.v.

*Ochrosticta*, McKinney 1944a, 149.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): *Ochrosticta bemisiae*, (Holmes) McKinney 1944a, 149.

*Ochrosticta bemisiae*, (Holmes) McKinney 1944a, 149.  
(Sp. Vir.) (Val. Pub., Leg.)  
Ruga bemisiae, Holmes 1939a, 435.  
Ruga bemisiae, Holmes 1939b, 117, q.v.  
Dalevirus manihot, Hansen 1945, 130.  
Jatropha virus maculans, Roland 1959, 128.  
Comment: Type species of genus *Ochrosticta*, McKinney 1944a, 149.

*Ochrovena*, Capoor and Varma 1950, 229.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Ochrovena hibisciae*, Capoor and Varma 1950, 229.

*Ochrovena hibisciae*, Capoor and Varma 1950, 229.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Hibiscusvirus nervimaculans*, Roland 1959, 128.  
Comment: Type species of genus *Ochrovena*, Capoor and Varma 1950, 229.

## ORNITHOGALUMVIRUS

*Ornithogalumvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor scillearum, Smith and Brierley 1944, 503, q.v.

## ORYZAVIRUS

*Oryzavirus limitifaciens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Oryzavirus nanescens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor oryzae, Holmes 1939b, 64, q.v.  
*Fractilinea oryzae*, (Holmes) Holmes 1948, 1160, q.v.

## PELARGONIUMVIRUS

*Pelargoniumvirus crispans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor pelargonii, Holmes 1948, 1199, q.v.

## PERSICAVIRUS

*Persicavirus anulolum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Annulus cerasi, Hildebrand 1944, 1003, q.v.

*Persicavirus flavescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus persicae*, Holmes 1939b, 5, q.v.

*Persicavirus gemmidicolorans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus lacerans*, (Holmes) Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Carpophthora lacerans*, (Holmes) McKinney 1944a, 152, q.v., type species of genus *Carpophthora*, McKinney 1944a, 152.  
Marmor lacerans, Holmes 1939b, 82, q.v.

*Persicavirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor persicae, Holmes 1939b, 81, q.v.  
*Flavimacula persicae*, (Holmes) McKinney 1944a, 149, q.v., type species of genus *Flavimacula*, McKinney 1944a, 149.

*Persicavirus mirabile*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Nanus mirabilis*, Holmes 1939b, 126, q.v.

*Persicavirus nanescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus nudans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus persicae* var. *vulgare*, Holmes 1939b, 5, q.v.

*Persicavirus occidentale*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus reticulosum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus rosettans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Nanus rosettae*, Holmes 1939b, 125, q.v.  
*Carpophthora rosettae*, (Holmes) Holmes 1948, 1152, q.v.

*Persicavirus rubescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus variegans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Persicavirus verrucans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Galla verruca*, Blodgett 1943, 30, q.v.

## PHASEOLUSVIRUS

*Phaseolusvirus flavescens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Phaseolusvirus laedens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor laesiofaciens*, Zaunmeyer and Harter 1943b, 305, q.v.

*Phaseolusvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor phaseoli, Holmes 1939b, 87, q.v.

## PHORMIUMVIRUS

*Phormiumvirus flavofaciens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

*Photophilus*, Ryzhkov 1952, 467.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Photophilus elegans*, Ryzhkov 1952, 467.

*Photophilus elegans*, Ryzhkov 1952, 467.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Marmor abutilon, Holmes 1939b, 50, q.v.

*Phyllospilum*, Hildebrand 1960, 756.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Phyllospilum ipomoeae*, Hildebrand 1960, 756.

*Phyllospilum ipomoeae*, Hildebrand 1960, 756.  
(Sp. Vir.) (Val. Pub., Leg.)

*Phytamoeba*, McWhorter 1922, 109.  
(Gen. Vir.) (Val. Pub., Illeg.: Prin. 1, Rule 24f)  
*Northiella*, McWhorter 1922, 103.  
*Northiella*, Likhite 1929, 15.  
Type sp. (monotype): *Phytamoeba sacchari*, McWhorter 1922, 110.  
Comment: Described as a protozoan genus resembling the genus *Entamoeba*. The author failed to show causal relationship to the Fiji disease of sugar cane, caused by *Galla fijiensis*, Holmes, q.v.

*Phytamoeba sacchari*, McWhorter 1922, 110.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Northiella sacchari*, "Lyon" in Likhite 1929, 15, type species of genus *Northiella*, Likhite 1929, 15.  
Marmor sacchari, Holmes 1939a, 435.  
Marmor sacchari, Holmes 1939b, 60.  
*Saccharumvirus maculans*, Roland 1959, 130.  
Comment: Type species of genus *Phytamoeba*, McWhorter 1922, 109.

- PHYTOPHAGI, Holmes 1939a, 433.  
(Division, Vira) (Val. Pub., Leg.)
- PHYTOPHAGI, McKinney 1944a, 146.  
(Calss Vir.) (Val. Pub., Illeg.: Rule 24a)  
Spermatophytophagi, Holmes 1939a, 434.
- PHYTOPHAGINEAE, Holmes 1948, 1145.  
(Sub order Vir.) (Val. Pub., Leg.)
- PHYTOVIRUS, Thornberry 1941, 23.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 12c2, 13a)  
Marmor, Holmes 1939b, 16.  
Type sp. (monotype): Phytovirus nicomosaicum,  
Thornberry 1941, 25.
- PHYTOVIRUS, Bawden 1953, 543.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a)  
Marmor, Holmes 1939b, 16.  
Type sp. (monotype): Phytovirus paracrystalis,  
Bawden 1953, 543.
- Phytovirus nicomosaicum, Thornberry 1941, 23.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Protobios mosaicus, d'Herelle 1924, 343, q.v.  
Type sp. of genus Phytovirus, Thornberry 1941, 25.  
Marmor tabaci, Holmes 1939, 17.
- Phytovirus nicomosaicum var. vulgare, (Holmes)  
Thornberry 1941, 23.  
(Var. Vir.) (Not Val. Pub., Rule 12a)  
Protobios mosaicum var. tabaci, d'Herelle 1924, 343,  
q.v.
- Phytovirus paracrystalis, Bawden 1953, 543.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Protobios mosaicus, d'Herelle 1924, 343.  
Type sp. of genus Phytovirus, Bawden 1953, 543.
- Phytovirus paracrystalis var. aucuba, Bawden 1953, 543.  
(Var. Vir.) (Not Val. Pub.: Rule 12a)  
Marmor aucuba, Holmes 1939b, 49, q.v.
- Phytovirus paracrystalis var. cucumis, Bawden 1953, 543.  
(Var. Vir.) (Not Val. Pub.: Rule 12a1)  
Marmor cucumeris, Holmes 1939b, 31, q.v.  
Murialba cucumeris, (Holmes) Valleeau 1940, 823, q.v.
- Phytovirus paracrystalis var. vulgare, (Holmes) Bawden  
1953, 543.  
(Var. Vir.) (Not Val. Pub.: Rule 12a)  
Protobios mosaicus var. tabaci, d'Herelle 1924, 343,  
q.v.
- PHYTOVECTALES, Krieg 1961, 142.  
(Subord. Vir.) (Val. Pub., Illeg.: Rule 4)
- PIESMAPHILUS, Ryzhkov 1952, 466.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Savoia, Holmes 1939b, 131, q.v.  
Type sp. (subs. des. Barkley 1960, 70): Piesmaphilus  
europaeus, Ryzhkov 1952, 466.
- Piesmaphilus americanus, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)
- Piesmaphilus europaeus, Ryzhkov 1953, 161.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Savoia betae, Holmes 1939b, 132, q.v.,  
type species of genus Savoia, Holmes 1939b, 131.
- Piesmaphilus europaeus, Ryzhkov 1952, 466.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Savoia betae, Holmes 1939b, 131, q.v.,  
type species of genus Savoia, Holmes 1939b, 131.  
Comment: Type species of genus Piesmaphilus,  
Ryzhkov 1952, 466.
- PISUMVIRUS
- Pisumvirus maculosum, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor efficiens, Johnson 1942, 115, q.v.
- Pisumvirus verrucans, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor pisi, Holmes 1939b, 90, q.v.
- Pisumvirus virgatum, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- POAEVIR, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 13e)
- POECILE, McKinney 1944a, 148.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): Poecile rubi, (Holmes) McKinney  
1944a, 148.
- Poecile rubi, (Holmes) McKinney 1944a, 148.  
(Sp. Vir.) (Val. Pub., Leg.)  
Marmor rubi, Holmes 1939b, 80, q.v.  
Comment: Type species of genus Poecile, McKinney  
1944a, 148.
- POLYCLADUS, McKinney 1944a, 151.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (orig. des.): Polyclusus robiniae, (Holmes)  
McKinney 1944a, 151.
- Polyclusus robiniae, (Holmes) McKinney 1944a, 151.  
(Sp. Vir.) (Val. Pub., Leg.)  
Chlorogenus robiniae, Holmes 1939b, 13, q.v.  
Robiniavirus everriculosum, Roland 1959, 130.  
Chlorogenus robiniae, Holmes 1939a, 434.  
Comment: Type species of genus Polyclusus, McKinney  
1944a, 151.
- PRIMULAVIRUS
- Primulavirus maculans, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor primular, Holmes 1948, 1210, q.v.
- PROTOBIOS, d'Herelle 1924, 342.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Bacteriophagum, d'Herelle 1918, 1161.  
Type sp. (orig. des.): Protobios bacteriophagus,  
d'Herelle 1924, 343.
- Protobios bacteriophagus, d'Herelle 1924, 343.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Bacteriophagum intestinale, d'Herelle 1918, 1161.  
Type sp. of genus Protobios, d'Herelle 1924, 342.
- Protobios bacteriophagus, d'Herelle 1924, 343, 345.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Bacteriophagum intestinale, d'Herelle 1918, 1161.
- Protobios bacteriophagus var. pestis, Compton 1930, 152.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Protobios lyssae, d'Herelle 1924, 343.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
Neuroryctes hydrophobiae, Calkins 1907, 560, q.v.
- Protobios mosaicus var. tabaci, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rules 7 and 24b)  
Marmor tabaci var. vulgare, Holmes 1939a, 434.  
Marmor tabaci var. vulgare, Holmes 1939b, 17.  
Phytovirus nicomosaicum var. vulgare, (Holmes)  
Thornberry 1941, 25.  
Phytovirus paracrystalis var. vulgare, (Holmes)  
Bawden 1953, 543.
- Protobios pestiavis, d'Herelle 1924, 343.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
Protobios pestiavis var. gallinae, d'Herelle 1924, 343.  
Tortor balli, Holmes 1948, 1279.  
Pestigenes pullorum, Zhdanov and Korenblut 1950, 44.  
Pantropus avium, Ryzhkov 1950, 17.  
Gamaleia pullorum, Zhdanov 1953, 107.  
Myxovirus pestis-galli, Andrewes 1956, 621; Andrewes,  
Bang and Burnet 1955, 181.
- Protobios pestiavis var. gallinae, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rules 7, 24b)  
Protobios pestiavis, d'Herelle 1924, 343, q.v.
- Protobios portobios, d'Herelle 1924, 345.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c2)

- Protobios variabilis*, d'Herelle 1924, 343.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Protobios variabilis* var. *herpeti*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Neurocystis herpetii*, Levaditi and Schoen 1927, 961, q.v.
- Protobios variabilis* var. *influenzae*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Tarpeia*, Holmes 1948, 1268.
- Protobios variabilis* var. *varicella*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Cytoryctes varicellae*, (d'Herelle) Muchkovski 1945, 33, q.v.  
*Briareus varicellae*, (d'Herelle) Holmes 1948, 1233, q.v.  
*Strongyloplasma varicellae*, (d'Herelle) Zhdanov 1953, 204, q.v.
- Protobios variolae*, d'Herelle 1924, 343.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Cytoryctes variolae*, Guarnieri 1892, 422, q.v.
- Protobios variolae* var. *bovis*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Strongyloplasma vaccinia* var. *bovis*, (d'Herelle) Zhdanov 1953, 199, q.v.
- Protobios variolae* var. *equi*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Strongyloplasma vaccinia* var. *equi*, Zhdanov 1953, 200, q.v.
- Protobios variolae* var. *hominis*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Cytoryctes variolae*, Guarnieri 1892, 422, q.v.
- Protobios variolae* var. *ovis*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)  
*Strongyloplasma vaccinia* var. *ovis*, (d'Herelle) Zhdanov 1953, 199, q.v.
- Protobios variolae* var. *suis*, d'Herelle 1924, 343.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b) as *Protobios variolae* var. *sui*.  
*Borreliota suis*, (d'Herelle) Holmes 1948, 1232, q.v.  
*Strongyloplasma* (*Zoovariola*) *suis*, Zhdanov 1953, 203, q.v.
- PRUNIVIR**, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Type sp. (monotype): *Prunivir rosettae*, Fawcett 1940, 560.
- Prunivir cerasi*, McLarty, Lott, Milbrath, Reeves and Zeller 1951, 106.  
(Sp. Vir.) (Not Val. Pub., Rule 12c1)  
*Marmor cerasi*, Zeller and Evans 1941, 467.
- Prunivir circummaculatum*, Cochran, Hutchins, Milbrath, Stout and Zeller 1951, 71.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c1)  
*Annulus cerasi*, Hildebrand 1944, 1003, q.v.
- Prunivir circummaculatum*, "Fawcett" in Smith 1957, 342 in syn.  
(Sp. Vir.) (Not Val. Pub.: Rule 12d)  
*Annulus cerasi*, Hildebrand 1944, 1003, q.v.
- Prunivir flavimacula*, Hutchins, Bodine, Cochran and Stout 1951, 26.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c, 12d)  
*Marmor persicae*, Holmes 1939b, 81, q.v.  
*Flavimacula persicae*, (Holmes) McKinney 1944a, 149, q.v.
- Prunivir mirabilis*, Hutchins, Cochran and Turner 1951, 17.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c1)  
*Nanus mirabilis*, Holmes 1939b, 126, q.v.
- Prunivir rosettae*, Fawcett 1940, 560.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Carpophthora rosettae*, (Holmes) Holmes 1948, 1152, q.v.  
*Nanus rosettae*, Holmes 1939b, 129, q.v.  
Comment: Type species of genus *Prunivir*, Fawcett 1940, 560.
- Prunivir rubiginosum*, Fawcett 1940, 560.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor rubiginosum*, Reeves 1940, 789, q.v.
- Prunivir verruca*, Blodgett, Milbrath, Reeves and Zeller 1951, 56.  
(Sp. Vir.) (Not Val. Pub.: Rule 12c1)  
*Galla verruca*, Blodgett 1943, 30, q.v.
- Prunivir verruca*, "Fawcett" in Smith 1957, 346.  
*Galla verruca*, Blodgett 1943, 30, q.v.
- PRUNUSVIRUS**
- Prunusvirus nanescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Nanus pruni*, Holmes 1939b, 128, q.v.
- PSEUDOMARMOR**, Limasset 1948, 293.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
Type sp. (monotype): *Pseudomarmor anglicae*, Limasset 1948, 293.
- Pseudomarmor anglicae*, Limasset 1948, 293.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor anglicae*, Holmes 1939b, 48, q.v.
- PTERIDOVIRUS**, Thornberry 1941, 25.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 12c2, 13a)
- PYRUSVIRUS**
- Pyrusvirus lignifaciens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor pyri*, Holmes 1939b, 76, q.v.  
*Rimocortius pyri*, (Holmes) Holmes 1948, 1211, q.v.  
*Dinvirus pyri*, (Holmes) Hansen 1956, 126, q.v.
- Pyrusvirus maculans*, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor mali*, Holmes 1939b, 75, q.v.
- Pyrusvirus molliens*, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Pyrusvirus rosettans*, Roland 1959, 127.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Acrogenus rosettae*, Baumann 1958, 119, q.v.
- Pyrusvirus variegans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- QUANJERIA**, Ryzhkov 1952, 465.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus: *Quanjeria*, Ryzhkov 1952, 466.
- QUANJERIA**, Ryzhkov 1952, 466.  
(Gen. Vir.) (Not Val. Pub.: Rule 13a)  
*Corium*, Holmes 1939b, 119, q.v.  
Type sp. (subs. des.) Barkley 1958, 128): *Quanjeria ruberosi*, Ryzhkov 1952, 466.
- Quanjeria tuberosi*, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
*Corium solani*, Holmes 1939b, 120, q.v., type species of genus *Corium*, Holmes 1939a, 119.  
Comment: Type species of genus *Quanjeria*, Ryzhkov 1952, 466.
- Quanjeria wordereawskiana*, Ryzhkov in Kohler and Klinkowski 1954, 519,  
see *Quanjeria verelevskiana*.
- Quanjeria verdelevskiana*, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2 as *Quanjeria verdelevskiana*).
- RAPHANUSVIRUS**
- Raphanusvirus maculans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor raphani*, Holmes 1948, 1200, q.v.  
*Maphichorda raphani*, (Holmes) Hansen 1956, 123, q.v., type species of genus *Maphichorda*, Hansen 1956, 123.

**RIBESVIRUS**

- Ribesvirus senticosum*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Acrogenus ribis*, Holmes 1939b, 112, q.v.
- RIMOCORTIODES, Bitancourt 1953, 453.  
(Gen. Vir.) (Not Val. Pub.: Rule 12c2)  
*Rimocortius*, Milbrath and Zeller 1942, 430. q.v.
- RIMOCORTIUM
- Rimocortium psorosis*, (Fawcett) Holmes 1948, 1210.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis*, Fawcett 1941, 357.  
Source: RUTACEAE - *Citrus sinensis*, Osbeck, orange; *C. limonia*, Osbeck, lemon; *C. maxima*, Merr., grapefruit.
- RIMOCORTIUS, Milbrath and Zeller 1942, 430.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Rimocortiodes*, Bitancourt 1953, 453.  
Type sp. (orig. des.): *Rimocortius kwanzani*, Milbrath and Zeller 1942, 430.
- Rimocortius kwanzani*, Milbrath and Zeller 1942, 430.  
(Sp. Vir.) (Val. Pub., Leg.)  
Source: *Prunus serrulata*, Lindl., var. *kwanzan*, Flowering cherry; *P. avium*, L., Mazzard cherry.
- Rimocortius kwanzani*, Milbrath and Zeller 1942, 430.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Dinivirus pruni*, Hansen 1956, 126.  
*Cerasusvirus asperans*, Roland 1959, 128.  
Comment: Type species of genus *Rimocortius*, Milbrath and Zeller 1942, 430.
- Rimocortius psorosis*, (Fawcett) Holmes 1948, 1210.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis*, Fawcett 1941, 357.  
*Dinivirus citri*, Hansen 1956, 126.  
*Citri virus acabiosum*, Roland 1959, 128.  
Type var. (orig. des.): *Rimocortius psorosis* var. *vulgare*, (Fawcett) Holmes 1948, 1210.
- Rimocortius psorosis*, (Fawcett) Holmes 1948, 1210.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis*, Fawcett 1941, 357, type species of genus *Citri vir*, Fawcett 1941, 357.  
*Dinivirus citri*, Hansen 1956, 126, q.v., type species of genus *Dinivirus*, Hansen 1956, 126.  
*Citri virus scabiosum*, Roland 1959, 128.  
Type var. (orig. des.): *Rimocortius psorosis* var. *vulgare*, (Fawcett) Holmes 1948, 1210.
- Rimocortius psorosis* var. *alveatum*, (Fawcett and Bitancourt) Holmes 1948, 1211.  
(Var. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis* var. *alveatum*, Fawcett and Bitancourt 1943, 854.
- Rimocortius psorosis* var. *anulatum*, (Fawcett) Holmes 1948, 1210.  
(Var. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis* var. *anulatum*, Fawcett 1941, 561.
- Rimocortius psorosis* var. *concauum*, (Fawcett and Bitancourt) Holmes 1948, 1210.  
(Var. Vir.) (Val. Pub., Leg.)  
*Citri vir psorosis* var. *concauum*, Fawcett and Bitancourt 1943, 850.
- Rimocortius psorosis* var. *vulgare*, (Fawcett) Holmes 1948, 1210.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 7)  
*Citri vir psorosis* var. *vulgare*, Fawcett 1940, 561; 1941, 357.  
Comment: Type variety of species *Rimocortius psorosis*, (Fawcett) Holmes 1948, 1210.
- Rimocortius pyri*, (Holmes) Holmes 1948, 1211.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Marmor pyri*, Holmes 1939b, 76, q.v.  
*Dinivirus pyri*, (Holmes) Hansen 1956, 126, q.v.  
*Pyrusvirus lignificans*, Roland 1959, 129.  
Pear stony pit virus  
Source: ROSACEAE - *Pyrus communis*, L., pear.
- ROBINIAVIRUS
- Robiniavirus everriculosum*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus robiniae*, Holmes 1939b, 13, q.v.  
*Polycladus robiniae*, (Holmes) McKinney 1944a, 151, q.v., type species of genus *Polycladus*, McKinney 1944a, 151.
- RUBUSVIRUS
- Rubusvirus crispans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Corium rubi*, Holmes 1939b, 121, q.v.
- Rubusvirus deformans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Nanus loganobacci*, Holmes 1939b, 124, q.v., type species of genus *Nanus*, Holmes 1939b, 123.
- Rubusvirus letale*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Rubusvirus nanescens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Rubusvirus retinens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Rubusvirus virgatum*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Nanus orientalis*, Holmes 1939b, 124, q.v.
- RUGA, Holmes 1939a, 435.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ruga*, Holmes 1939b, 114, q.v.  
Type sp. (orig. des.): *Ruga tabaci*, Holmes 1939a, 435.
- RUGA, Holmes 1939b, 114.  
(Gen. Vir.) (Val. Pub., Leg.)  
non *Rugavirus*, Krieg 1961, 151.  
*Ruga*, Holmes 1939a, 435.  
Type sp. (orig. des.): *Ruga tabaci*, Holmes 1939b, 115.
- Ruga bemisiae*, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ruga bemisiae*, Holmes 1939b, 117, q.v.  
*Ochrostricta bemisiae*, (Holmes) McKinney 1944a, 149, q.v., type species of genus *Ochrostricta*, McKinney 1944a, 149.
- Ruga bemisiae*, Holmes 1939b, 117.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Ruga bemisiae*, Holmes 1939a, 435.  
*Ochrostricta bemisiae*, (Holmes) McKinney 1944a, 149, q.v., type species of genus *Ochrostricta*, McKinney 1944a, 149.  
*Dalevirus manihot*, Hansen 1956, 130.  
*Jatropha virus maculans*, Roland 1959, 128.
- Ruga gossypii*, Holmes 1939a, 435.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Ruga gossypii*, Holmes 1939b, 116, q.v.
- Ruga gossypii*, Holmes 1939b, 116.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Ruga gossypii*, Holmes 1939a, 435.  
*Gossypiumvirus crispans*, Roland 1959, 128.
- Ruga tabaci*, Holmes 1939b, 115.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Ruga tabaci*, Holmes 1939a, 435, type species of genus *Ruga*, Holmes 1939a, 435.  
*Dalevirus nicotianae*, Hansen 1956, 130, type species of genus *Dalevirus*, Hansen 1956, 130.  
*Nicotianavirus crispans*, Roland 1959, 130.  
Comment: Type species of genus *Ruga*, Holmes 1939b, 114.
- Ruga verrucosans*, Carsner and Bennett 1943, 386.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Chlorogenus eutettigicola*, Holmes 1939b, 11, q.v.
- Ruga verrucosans* var. *brasiliensis*, Bennett and Costa 1949, 692.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)

- Ruga verrucosans var. *distans*, Bennett, Carsner, Coons and Brandes 1946, 44.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- Ruga verrucosans var. *solanacearum*, Costa 1952, 402.  
(Var. Vir.) (Val. Pub., Illeg.: Rule 24b)
- RUGACEAE, Holmes 1939b, 114.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus *Ruga*, Holmes 1939, 114.
- RUGAVIRUS, Krieg 1961, 151.  
(Gen. Vir.) (Val. Pub., Leg.)  
non *Ruga*, Holmes 1939b, 114.  
*Betavir*, Fawcett 1940, 560.  
Type sp. (monotype): *Rugavirus verrucosans*, Krieg 1961, 151.
- Rugavirus verrucosans*, (Carsner and Bennett) Krieg 1961, 151.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Chlorogenus eutettigicola*, Holmes 1939b, 11, q.v.
- RUMEXVIRUS
- Rumexvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- SACCHARUMVIRUS
- Saccharumvirus fijense*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Galla fijensis*, Holmes 1939b, 106,  
type species of genus *Galla*, Holmes 1939b, 105.
- Saccharumvirus maculans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Phytamoeba sacchari*, McWhorter 1922, 110, q.v.,  
type species of genus *Phytamoeba*, McWhorter 1922, 109.
- Saccharumvirus nanescens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Galla queenslandiensis*, Holmes 1939b, 109, q.v.
- Saccharumvirus virgatum*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- SANTALUMVIRUS
- Santalumvirus crispans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor santali*, Holmes 1939b, 94, q.v.
- Santalumvirus spicans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus santali*, Holmes 1939b, 8, q.v.
- SAVOIA, Holmes 1939b, 131.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Dahetvirus*, Hansen 1956, 130.  
*Piesmaphilus*, Ryzhkov 1952, 466.  
Type sp. (orig. des.): *Savoia betae*, Holmes 1939b, 132.
- Savoia betae*, Holmes 1939b, 132.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Piesmaphilus europeus*, Ryzhkov 1952, 466,  
type species of genus *Piesmaphilus*, Ryzhkov 1952, 466.  
*Piesmaphilus europaeus*, Ryzhkov 1953, 161.  
*Dahetvirus betae*, (Holmes) Hansen 1956, 130,  
type species of genus *Dahetvirus*, Hansen 1956, 130.  
*Betavirus crispans*, Roland 1959, 128.  
Comment: Type species of genus *Savoia*, Holmes 1939b, 131.  
*Beet Krauselkrankheit virus*.  
*Sugar beet leaf-curl virus*.  
*Sugar beet leaf-crinkle virus*.  
*Kopfsalat virus*.  
Source: CHENOPODIACEAE - *Beta vulgaris*, L., beet.
- Savoia napi*, Holmes 1939b, 133.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Mehetvirus brassicae*, Hansen 1956, 130,  
type species of genus *Mehetvirus*, Hansen 1945, 130.  
*Brassicavirus crispans*, Roland 1959, 130.
- Savoia piesmae*, Holmes 1939b, 132.  
(Sp. Vir.) (Val. Pub., Leg.)
- SAVOIACEAE, Holmes 1939b, 131.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus *Savoia*, Holmes 1939b, 131.
- SENECIOVIRUS
- Seneciovirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor senecionis*, Klinkowski 1954, 698.
- SOLANIVIR, Fawcett 1940, 560.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Aureogenus*, Black 1944, 141, q.v.  
Type sp. (monotype): *Solanivir vestans*, Fawcett 1940, 560.
- Solanivir vestans*, Fawcett 1940, 560.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor vastans*, Holmes 1939b, 94, q.v.  
*Aureogenus vastans*, Black 1944, 141, q.v.,  
type species of genus *Aureogenus*, Black 1944, 141.  
Comment: Type species of genus *Solanivir*, Fawcett 1940, 560.
- SOLANOPHILUS, Ryzhkov 1952, 465.  
(Gen. Vir.) (Val. Pub., Leg.)  
*Solanumvirus*, Kohler 1952b, 51.  
*Solanum-virus*, Kohler 1952a, 294.  
*Minflexus*, Hansen 1956, 127.  
Type sp. (subs. des. Barkley 1958, 128): *Solanophilus tuberosi*, Ryzhkov 1952, 465.
- Solanophilus tuberosi*, Ryzhkov 1952, 465.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Marmor dubium*, Holmes 1939b, 42, q.v.  
*Annulus dubius*, (Holmes) Holmes 1948, 1214, q.v.  
Comment: Type species of genus *Solanophilus*, Ryzhkov 1952, 465.
- SOLANUM-VIRUS, Kohler 1952a, 294.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Solanophilus*, Ryzhkov 1952, 465, q.v.  
Type sp. (monotype): *Solanum-virus deformans*, Kohler 1952, 294.
- SOLANUMVIRUS, Kohler 1952b, 51.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Solanophilus*, Ryzhkov 1952, 465, q.v.
- Solanumvirus aceratagalliatranslatum*, (sic) Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor vastans*, Holmes 1939b, 94, q.v.  
*Aureogenus vastans*, (Holmes) Black 1944, 141, q.v.,  
type species of genus *Aureogenus*, Black 1944, 141.
- Solanumvirus alphaicum*, Kohler 1952b, 52.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor solani*, Holmes 1939b, 47, q.v.
- Solanumvirus altathermus*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Corium solani*, Holmes 1939b, 120, q.v.,  
type species of genus *Corium*, Holmes 1939b, 119.
- Solanumvirus A-nominatum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Solanumvirus anulosum*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor dubium* var. *annulus*, Holmes 1939b, 44, q.v.  
*Annulus dubius* var. *annulus*, (Holmes) Holmes 1948, 1215, q.v.
- Solanumvirus aucubamarmor*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor aucuba*, Holmes 1939b, 49, q.v.
- Solanumvirus aucubamarmor* var. *F*, Roland 1952, 55.  
(Var. Vir.) (Not Val. Pub.: Rules 12a2, 7)
- Solanumvirus aucubamarmor* var. *G*, Roland 1952, 55.  
(Var. Vir.) (Not Val. Pub.: Rules 12a2, 7)



- Solanumvirus aucuboides*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor aucuba, Holmes 1939b, 49, q.v.
- Solanumvirus coleopterotranslatum*, Roland 1952b, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Acrogenus solani, Holmes 1939b, 111, q.v.
- Solanumvirus contactutranslatum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor dubium var. annulus, Holmes 1939b, 44, q.v.  
Annulus dubius var. annulus, (Holmes) Holmes 1948,  
1215, q.v.
- Solanumvirus contactutranslatum* var. B, Roland 1952, 55.  
(Var. Vir.) (Not Val. Pub.: Rules 12a2, 7)  
Marmor dubium var. annulus, Holmes 1939b, 44, q.v.  
Annulus dubius var. annulus, (Holmes) Holmes 1948,  
1215, q.v.
- Solanumvirus cuscuto-translatum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus solani, Holmes 1939b, 7, q.v.  
Chlorophthora solani, (Holmes) McKinney 1944a, 151,  
q.v., type species of genus Chlorophthora, McKinney  
1944a, 151.
- Solanumvirus deformans*, Kohler 1952a, 294.  
(Sp. Vir.) (Val. Pub.: Illeg., Rule 24a)  
Marmor dubium, Holmes 1939b, 42, q.v.  
Annulus dubius, (Holmes) Holmes 1948, 1214, q.v.  
Comment: Type species of genus Solanum-virus,  
Kohler 1952a, 294.
- Solanumvirus everriculosum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Chlorogenus solani, Holmes 1939b, 7, q.v.  
Chlorophthora solani, (Holmes) McKinney 1944a, 151,  
q.v., type species of genus Chlorophthora, McKinney  
1944a, 151.
- Solanumvirus experimentotranslatum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor angliae, Holmes 1939b, 48, q.v.
- Solanumvirus flavomaculans*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Solanumvirus fusifaciens*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Acrogenus solani, Holmes 1939b, 111, q.v.
- Solanumvirus fusiformis*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Acrogenus solani, Holmes 1939b, 111, q.v.
- Solanum virus inpermanens*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a)  
Marmor upsilon, Holmes 1948, 1172, q.v.
- Solanum virus inpersistens* var. C, Roland 1952, 55.  
(Var. Vir.) (Not Val. Pub.: Rule 12a2, 7)
- Solanum virus inpersistens* var. S, Roland 1952, 55.  
(Var. Vir.) (Not Val. Pub.: Rules 12a2, 7)
- Solanum virus librimatiferrum*, (sic) Klinkowski 1958, 2.  
*Solanum virus librimortiferum*, Roland 1952, 53, q.v.
- Solanum virus librimortiferum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Corium solani, Holmes 1939b, 120, q.v.,  
type species of genus Corium, Holmes 1939b, 119.
- Solanum virus macrostelotranslatum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Solanumvirus maculans*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Ginchorda nico-caulis, Hansen 1956, 127, q.v., type  
species of genus Ginchorda, Hansen 1956, 127.
- Solanumvirus mirum*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor angliae, Holmes 1939b, 48, q.v.
- Solanumvirus nanescens*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Solanum virus parvathermis*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor solani, Holmes 1939b, 47, q.v.
- Solanumvirus perniciosum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Corium solani, Holmes 1939b, 120, q.v.,  
type species of genus Corium, Holmes 1939b, 119.
- Solanum virus psyllidotranslatum*, Roland 1952, 53.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Solanumvirus rigidiformans*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Corium solani, Holmes 1939b, 120, q.v.,  
type species of genus Corium, Holmes 1939b, 119.
- Solanumvirus singulare*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Ginchorda nico-caulis, Hansen 1956, 127, q.v.,  
type species of genus Ginchorda, Hansen 1956, 127.
- Solanumvirus varians*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Corium solani, Holmes 1939b, 120, q.v.,  
type species of genus Corium, Holmes 1939b, 119.
- Solanumvirus vastans*, (Holmes) Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor vastans, Holmes 1939b, 94, q.v.  
Aureogenus vastans, (Holmes) Black 1944, 141, q.v.,  
type species of genus Aureogenus, Black 1944, 141.
- Solanumvirus X-nominatum*, Roland 1959, 129.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor upsilon, (Holmes) Holmes 1948, 1172, q.v.  
Marmor dubium var. annulus, Holmes 1939b, 44, q.v.  
Annulus dubius var. annulus, (Holmes) Holmes 1948,  
1215, q.v.
- Solanum virus ypsilonicum*, Kohler 1952b, 51.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a)  
Marmor upsilon, (Holmes) Holmes 1948, 1172, q.v.
- SPERMATOPHYTOPHAGI, Holmes 1939a, 434.  
(Class Vir.) (Val. Pub., Leg.)  
Phytophagi, McKinney 1944a, 146.  
Eucrystallinae, Ryzhkov 1952, 463, 465.
- TARAXACUMVIRUS
- Taraxacumvirus flavescens*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
Marmor taraxaci, Klinkowski 1954, 702, q.v.
- THALLOVIRUS, Thornberry 1941, 25.  
(Gen. Vir.) (Not Val. Pub.: Rules 12a2, 12c2, 13a)
- THRIPSOPHILACEAE, Ryzhkov 1952, 466.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus: Thripsophilus, Ryzhkov 1952, 466.
- THRIPSOPHILUS, Ryzhkov 1952, 466.  
(Gen. Vir.) (Not Val. Pub.: Rule 13a)  
Lethum, Holmes 1939b, 135, q.v.  
Type sp. (monotype): Thripsophilus lycopersici,  
Ryzhkov 1952, 466.
- Thripsophilus lycopersici*, Ryzhkov 1952, 466.  
(Sp. Vir.) (Not Val. Pub.: Rule 14a2)  
Lethum australiense, Holmes 1939b, 136, q.v.  
Comment: Type species of genus Thripsophilus,  
Ryzhkov 1952, 466.
- THYVIRACEAE, Hansen 1956, 128.  
(Fam. Vir.) (Val. Pub.: Illeg., Rule 3) collective  
genus.  
Comment: Includes Methyvirus, Hansen 1956, 129.

- TRACTUS, Valteau 1940, 826.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Tractus orae*, (Holmes) Valteau 1940, 826.
- Tractus orae*, (Holmes) Valteau 1940, 826.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Annulus orae*, Holmes 1939, 103, q.v.  
*Nicotianavirus vulnerans*, Roland 1959, 130.  
Comment: Type species of genus *Tractus*, Valteau 1940, 826.
- TRIFOLIUMVIRUS
- Trifoliumvirus clavifoliatum*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Aureogenus clavifolium*, Balck 1944, 141, q.v.
- Trifoliumvirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Trifoliumvirus nervicrassans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Aureogenus magnivena*, Black 1944, 144, q.v.
- Trifoliumvirus nervimaculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor trifolii*, Holmes 1939b, 93, q.v.
- TRITICUMVIRUS, Klinkowski and Kreutzberg 1958, 2.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Graminevorus*, Ryzhkov 1952, 466, q.v.  
Type sp. (monotype): *Triticumvirus retardans*, Klinkowski and Kreutzberg 1958, 2.
- Triticumvirus maculans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor tritici*, Holmes 1939b, 61; McKinney 1944b, 323, q.v.
- Triticumvirus retardans*, Klinkowski and Kreutzberg 1958, 2.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Fractilinea tritici*, McKinney 1944b, 327, q.v.  
Comment: Type species of genus *Triticumvirus*, Klinkowski and Kreutzberg 1958, 2.
- Tulipavirus vulgare*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor tulipae*, Holmes 1939b, 52, q.v.
- ULMUSVIRUS
- Ulmusvirus librincans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Morsus ulmi*, Holmes 1948, 1154, q.v.
- VACCINIUMVIRUS
- Vacciniumvirus nanescens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- Vacciniumvirus sterilefaciens*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Chlorogenus vaccinii*, Holmes 1939b, 10, q.v.
- VACUOLARIUM, Likhite 1929, 16.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24d)  
non *Vacuolaria*, Cienkowski 1870, 426.  
*Marmor*, Holmes 1939a, 434.  
*Marmor*, Holmes 1939b, 16.  
*Musivum*, Valteau 1940, 822.  
*Phytovirus*, Thornberry 1941, 23.  
*Virothrix*, Ryzhkov 1952, 465 non Ryzhkov 1950, 16.  
*Crystallobiotus*, Ryzhkov 1952, 472.  
*Phytovirus*, Bawden 1953, 543.  
*Minchorda*, Hansen 1956, 126.  
*Minvirus*, Hansen 1956, 126.  
Type sp. (monotype): *Vacuolarium iwanowski*, Likhite 1929, 16.  
Comment: *Vacuolarium*, Likhite 1929, 16, is an orthographic variant of *Vacuolaria*, Cienkowski 1870, 426.
- Vacuolarium iwanowhki*, Likhite 1929, 16.  
(Sp. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Protobios mosaicus*, d'Herelle 1924, 343, q.v.  
Type sp. of genus *Vacuolarium*, Likhite 1929, 16.
- VECTOMARMOR, Limasset 1948, 293.  
(Gen. Vir.) (Not Val. Pub.: Rule 12a2)  
*Maphiflexus*, Hansen 1956, 123, q.v.  
Type sp. (orig. des.): *Vactomarmor upsilon*, Limasset 1948, 293.
- Vectomarmor upsilon*, Limasset 1948, 293.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor upsilon*, (Holmes) Holmes 1948, 1172, q.v.  
Comment: Type species of genus *Vectomarmor*, Limasset 1948, 273.
- VICIAVIRUS, Quantz 1953, 421.  
(Gen. Vir.) (Val. Pub., Leg.)  
Type sp. (monotype): *Viciavirus varians*, Quantz 1953, 421.
- Viciavirus chlorogenum*, Quantz and Volk in Quantz 1958, 48.  
(Sp. Vir.) (Val. Pub., Leg.)
- Viciavirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Viciavirus varians*, Quantz 1953, 446.
- Viciavirus varians*, Quantz 1953, 446.  
(Sp. Vir.) (Val. Pub., Leg.)  
*Viciavirus maculans*, Roland 1959, 128.
- VIGNAVIRUS
- Vignavirus maculans*, Roland 1959, 128.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)  
*Marmor vignae*, Holmes 1948, 1188, q.v.
- VIRALES, Breed, Murray and Hitchens 1944, 421.  
(Order sch.)
- VIRALIA, Zhdanov and Korenblut 1950, 42.  
(Class Vir.) (Not Val. Pub., Rules 12a2, 12e)  
*Microtobiotes*, Philip 1957, 933.
- VIREAE, Barkley 1949, 88.  
(Class Vir.) (Not Val. Pub.: Rule 12a2)  
*Microtobiotes*, Philip.
- VIROCOCCACEAE, Ryzhkov 1952, 465.  
(Fam. Vir.) (Val. Pub., Leg.)  
Type genus: *Virococcus*, Ryzhkov 1952, 465.
- VIROCOCCUS, Ryzhkov 1952, 465.  
(Gen. Vir.) (Val. Pub., Illeg.: Rule 24a)  
*Muralba*, Valteau 1940, 823, q.v.  
Type sp. (subs. des.: Barkley 1958, 129): *Virococcus cucurbitae*, Ryzhkov 1952, 465.
- Virococcus cucurbitae*, Ryzhkov 1952, 465; 1953, 160.  
(Sp. Vir.) (Not Val. Pub.: Rule 13d)  
*Marmor cucumeris*, Holmes 1939b, 31, q.v.  
*Muralba cucumeris*, (Holmes) Valteau 1940, 823, q.v.  
Type sp. of genus *Virococcus*, Ryzhkov 1952, 465.
- VITISVIRUS
- Vitisvirus vastans*, Roland 1959, 130.  
(Sp. Vir.) (Not Val. Pub.: Rule 12a2)
- VULNUS, Thomas and Rawlins 1951b, 185.  
(Gen. Vir.) (Val. Pub., Illeg.: Prin. 1 (2)).  
Type sp. (monotype): *Vulnus immedicabile*, Thomas and Rawlins 1951b, 185.  
Comment: Authors have stated intent to ridicule nomenclature as currently applied to the viruses.
- Vulnus immedicabile*, Thomas and Rawlins 1951b, 185.  
(Sp. Vir.) (Val. Pub., Illeg.: Prin. 1 (2)).  
Comment: Type species of genus *Vulnus*, Thomas and Rawlins 1951b, 185.
- XENOVIRACEAE, Hansen 1956, 128.  
(Fam. Vir.) (Val. Pub., Illeg., Rule 3)  
Comment: Includes the genera *Mexevirus*, Hansen 1956, 128 and *Daxeivirus*, Hansen 1956, 128.

## XENOVIRALES, Hansen 1956, 127.

(Ord. Vir.) (Val. Pub., Leg.)

Comment: Includes 6 families:

Acaviraceae, Hansen 1956, 130.

Aleviraceae, Hansen 1956, 129.

Cocviraceae, Hansen 1956, 129.

Hetviraceae, Hansen 1956, 130.

Thyviraceae, Hansen 1956, 128.

Xenoviraceae, Hansen 1956, 128.

## ZEAVIRUS

Zeavirus maculans, Roland 1959, 129.

(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

Marmor zeae, Holmes 1939b, 59, q.v.

Fractilinea zeae, (Holmes) Holmes 1948, 1161, q.v.

Zeavirus variegans, Roland 1959, 129.

(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

Corium zeae, Stoner 1952, 688, q.v.

Zeavirus verrucans, Roland 1959, 129.

(Sp. Vir.) (Not Val. Pub.: Rule 12a2)

Galla zeae, McKinney 1944b, 328, q.v.

Zeavirus virgatum, Roland 1959, 129.

(Sp. Vir.) Not Val. Pub.: Rule 12a2)

Marmor maidis, Holmes 1939b, 56, q.v.

Fractilinea maidis, (Holmes) McKinney 1944a, 149,

q.v., type species of genus Fractilinea, McKinney

1944a, 148.



ACANTHACEAE  
ACERACEAE  
AIZOACEAE  
ALISMACEAE  
AMARANTHACEAE  
AMARYLLIDACEAE  
ANACARDIACEAE  
APOCYNACEAE  
ARACEAE  
ARALIACEAE  
ASCLEPIADACEAE  
BALSAMINACEAE  
BEGONIACEAE  
BERBERIDACEAE  
BIGNONIACEAE  
BIXACEAE  
BOMBACACEAE  
BORAGINACEAE  
BROMELIACEAE  
CACTACEAE  
CALYCANTHACEAE  
CAMPANULACEAE  
CANNACEAE  
CAPPARIDACEAE  
CAPRIFOLIACEAE  
CARICACEAE  
CARYOPHYLLACEAE  
CELASTRACEAE  
CHENOPODIACEAE  
COCHLOSPERMACEAE  
COMMELINACEAE  
COMPOSITAE  
CONVOLVULACEAE  
CRASSULACEAE  
CRUCIFERAE  
CUCURBITACEAE  
CYPERACEAE  
DIOSCOREACEAE  
DIPSACEAE  
EQUISETACEAE  
ERICACEAE  
EUPHORBIAEAE  
FRANKENIACEAE  
FUMARIACEAE  
GERANIACEAE  
GESNERIACEAE  
GOODENIACEAE  
GRAMINEAE  
HIPPOCASTANACEAE  
HYDROPHYLLACEAE  
HYPERICACEAE  
IRIDACEAE  
JUGLANDACEAE  
LABIATAE  
LAURACEAE  
LEGUMINOSAE  
LILIACEAE  
LINACEAE  
LOASCACEAE  
LOBELIACEAE  
LOGANIACEAE  
LYTHRACEAE  
MALVACEAE  
MARANTACEAE  
MARTYNIACEAE  
MORACEAE  
MUSACEAE  
MYRICACEAE  
MYRISTICACEAE  
MYRTACEAE  
NOLANACEAE  
NYCTAGINACEAE  
OLEACEAE  
ONAGRACEAE  
ORCHIDACEAE  
OXALIDACEAE  
PALMACEAE  
PAPAVERACEAE  
PASSIFLORACEAE  
PEDALIACEAE  
PHYTOLACCACEAE  
PINACEAE  
PIPERACEAE  
PITTIOSPORACEAE  
PLANTAGINACEAE  
PLUMBAGINACEAE  
POLEMONIACEAE  
POLYGONACEAE  
POLYPODIACEAE  
PONTEDERIACEAE  
PORTULACACEAE  
PRIMULACEAE  
PUNICACEAE  
RANUNCULACEAE  
RESEDACEAE  
RHAMNACEAE  
ROSACEAE  
RUBIACEAE  
RUTACEAE  
SALICACEAE  
SANTALACEAE  
SAPINDACEAE  
SAPOTACEAE  
SAURURACEAE  
SAXIFRAGACEAE  
SCROPHULARIACEAE  
SCYTOPETALACEAE  
SOLANACEAE  
STERCULIACEAE  
THEACEAE  
THYMELEACEAE  
TILIACEAE

TROPAEOLACEAE  
TYPHACEAE  
ULMACEAE  
UMBELLIFERAE  
URTICACEAE  
VALERIANACEAE  
VERBENACEAE  
VIOLACEAE  
VITACEAE  
ZINGIBERACEAE  
ZYGOPHYLLACEAE

- Abelmoschus Medic. 1787  
Abroma Jacq. 1776  
Abutilon Tourn. ex Adans. 1763  
Acacia ((Tourn.)) L. 1737  
Acalypha L. 1737  
Acanthospermum Schrank 1819  
Acer ((Tourn.)) L. 1735  
Achillea L. 1735  
Achyranthes L. 1737  
Adansonia L. 1753  
Adenia Forsk. 1775  
Adenoropium Pohl. 1827  
Adiantum ((Tourn.)) L. 1753  
Adlumia Rafin. 1808  
Adonis Dill. ex L. 1735  
Aegilops L. 1737  
Aegle Correa 1800  
Aeglopsis Swingle 1911  
Aegopodium Knaut. ex L. 1735  
Aeschynomene L. 1737  
Aesculus L. 1740  
Afraegle Stapf 1906  
Agapanthus L'Herit. 1788  
Ageratum L. 1737  
Agropyron J. Gaert. 1770  
Agrostis L. 1735  
Aizoon L. 1737  
Ajuga L. 1737  
Aleurites Forst. 1776  
Allium ((Tourn.)) L. 1735  
Aloe Tourn. ex L. 1735  
Alonsoa Ruiz & Pav. 1798  
Alopecurus L. 1735  
Alsine Scop. 1772  
Alstonia R. Br. 1809  
Alternanthera Forsk. 1775  
Althaea ((Tourn.)) L. 1735  
Alyssum Tourn. ex L. 1735  
Amaranthus L. 1735  
Amaryllis L. 1735  
Ambrosia L. 1737  
Amelanchier Medic. 1789  
Ammannia ((Houst.)) L. 1737  
Ammobium R. Br. 1824  
Amsinckia Lehm. 1831  
Amygdalus (See Prunus) ((Tourn.)) L. 1735  
Anagallis ((Tourn.)) L. 1735  
Ananas Tourn. ex L. 1735  
Anchusa L. 1735  
Androcera Nutt. 1818  
Andropogon L. 1753  
Anemone L. 1735  
Anemopsis Hook. & Arn. \*  
Anethum Tourn. ex L. 1737  
Anagraecum Bory 1804  
Anthemis Mich. ex L. 1735  
Anthoxanthum L. 1737  
Anthriscus Bernh. 1800  
Anthurium Schott 1829  
Antirrhinum Tourn. ex L. 1735  
Apeiba Aubl. 1775  
Apios Moench 1794  
Apium ((Tourn.)) L. 1735  
Apocynum ((Tourn.)) L. 1735  
Aquilegia ((Tourn.)) L. 1735  
Arabis L. 1737  
Arachis L. 1735  
Aranda \*  
Arctium L. 1735  
Arctotis L. 1737  
Arenaria Rupp. ex L. 1735  
Aristida L. 1753  
Armeria L. 1735  
Armoracia Gaertn. Mey. & Scherb. 1800  
Arracacia Bancroft. 1826  
(Arracacha) DC. 1829  
Arrhenatherum Beauv. 1812  
Artemesia L. 1735  
Artocarpus Forst. 1776  
Arum ((Tourn.)) L. 1735  
Asclepias L. 1737  
Asparagus Tourn. ex L. 1735  
Asperula L. 1735  
Asphodeline Reichb. 1830  
Aster Tourn. ex L. 1735  
Astragalus Tourn. ex L. 1737  
Atalantia Correa 1805  
Atriplex ((Tourn.)) L. 1735  
Atropa L. 1737  
Avena L. 1735  
Babiana Ker-Gawl. 1802  
Baccharis L. 1737  
Baeria Fisch. & Mey. 1835  
Baphia Afzel. ex Lodd. 1825  
Baptisia Vent. 1808  
Barbarea R. Br. 1812  
Bassia All. 1766  
Beckmannia Host 1805  
Begonia ((Tourn.)) L. 1742  
Belamcanda Adans. 1763  
Bellis ((Tourn.)) L. 1737  
Benincasa Savi 1818  
Berberis ((Tourn.)) L. 1737  
Berrya DC. 1824  
Berteroa DC. 1821  
Beta ((Tourn.)) L. 1735  
Bidens ((Tourn.)) L. 1737  
Bignonia ((Tourn.)) L. 1735  
Bixa L. 1737  
Boehmeria Jacq. 1760  
Boltonia L'Herit. 1788  
Bombax L. 1753

- Borago L. 1753  
 Bouteloua Lag. 1805  
 Brachiaria Griseb. 1853  
 Brachycombe \*  
 (Brachycome) Cass. 1825  
 Brachystegia Benth. 1865  
 Brassica ((Tourn.)) L. 1735  
 Brassocattleya X, Rolfe 1889  
 Brickellia Ell. 1824  
 Brodiaea Sm. 1811  
 Bromus Dill. ex L. 1735  
 Browallia L. 1737  
 Bryonia L. 1735  
 Bryonopsis Arn. 1841  
 Bryophyllum (See Kalanchoe) Salisb. 1805  
 Buchloe Engelm. 1859  
 Buddleia Houst. ex L. 1737  
 Buettneria Loefl. 1758  
 (Byttneria) Loefl. 1758  
 Bursa (See Capsella) Weber 1780  
 Caesalpinia L. 1753  
 Cajanus DC. 1813  
 Calandrinia H. B. & K. 1823  
 Calceolaria L. 1771  
 Calendula L. 1735  
 Callistephus Cass. 1825  
 Calochortus Pursh 1814  
 Calonyction Choisy 1833  
 Calycanthus L. 1759  
 Calystegia R. Br. 1810  
 Camassia Lindl. 1832  
 Camelina Grantz 1762  
 Camellia L. 1735  
 Campanula ((Tourn.)) L. 1735  
 Canavalia DC. 1825  
 Canna L. 1735  
 Canthium Lam. 1783  
 Capsella Medic. 1792  
 Capsicum ((Tourn.)) L. 1735  
 Cardamine ((Tourn.)) L. 1735  
 Cardiospermum L. 1735  
 Carduus ((Tourn.)) L. 1735  
 Carica L. 1737  
 Carthamus ((Tourn.)) L. 1735  
 Carum Rupp. ex L. 1735  
 Carya Nutt. 1818  
 Casimiroa La Llave 1825  
 Cassia Tourn. ex L. 1735  
 Catananche L. 1735  
 Catharanthus G. Don 1836  
 Cattleya Lindl. 1824  
 Ceanothus L. 1741  
 Ceiba Gaertn. 1791  
 Celeri Adans. 1763  
 Celosia L. 1737  
 Centaurea L. 1737  
 Cerastium ((Dill.)) L. 1735  
 Chaerifolium Haller 1768  
 (Chaetochloa) Scribn. 1897  
 Chamaesyce S.F. Gray 1821  
 Chapmannia Torr. & Gray 1839  
 Charieis Cass. 1817  
 Chayota Jacq. 1780  
 Cheiranthus L. 1737  
 Chelidonium Tourn. ex L. 1735  
 Chelone L. 1735  
 Chenopodium ((Tourn.)) L. 1735  
 Chloris Sw. 1788  
 Chorisia H. B. & K. 1821  
 Christiana DC. 1824  
 Chrysanthemum ((Tourn.)) L. 1735  
 Chrysopsis Ell. 1824  
 Cicer ((Tourn.)) L. 1735  
 Cichorium ((Tourn.)) L. 1735  
 Cineraria L. p.p. 1763  
 Circaea Tourn. ex L. 1735  
 Cirsium ((Tourn.)) Adans. 1763  
 Cistanthera K. Schum. 1897  
 Citropsis Swingle & Kellerman 1913  
 Citrullus Forsk. 1775  
 Citrus L. 1735  
 Clappertonia Meissn. 1837  
 Clarkia Pursh 1814  
 Clausena Burm. f. 1768  
 Claytonia Gronov. ex L. 1737  
 Cleome L. 1735  
 Clerodendron L. 1737  
 Clitoria L. 1737  
 Cobaea Cav. 1791  
 Cochlearia Tourn. ex L. 1735  
 Cochlospermum Kunth 1822  
 Cocos L. 1753  
 Codiaenum Rumph. ex A. Juss. 1824  
 Coffea L. 1735  
 Coix L. 1737  
 Cola Schott & Endl. 1832  
 Colchicum L. 1735  
 Coleus Lour. 1790  
 Collinsia Nutt. 1817  
 Colocynthis ((Tourn.)) L. 1735  
 Commelina Plum. ex L. 1735  
 Conium L. 1735  
 Conringia Heist. ex L. 1735  
 Convallaria L. 1735  
 Convolvulus ((Tourn.)) L. 1735  
 Cooperia Herb. 1836  
 Coprosma Forst. 1776  
 Corchorus ((Tourn.)) L. 1735  
 Coreopsis L. 1737  
 Coriandrum ((Tourn.)) L. 1735  
 Cortaderia Stapf 1897  
 Corydalis Vent. Choix, 19 1803, in nota



- Cosmidium Nutt. 1841  
 Cosmos Cav. 1791  
 Cotoneaster Rupp. 1745  
 Cotula ((Tourn.)) L. 1735  
 Crambe Tourn. ex L. 1735  
 Crassina Scepin 1758  
 Crocus ((Tourn.)) L. 1735  
 Crotalaria Dill. ex L. 1737  
 Cryptostemma R. Br. 1813  
 Cucumis ((Tourn.)) L. 1735  
 Cucurbita ((Tourn.)) L. 1735  
 Cuscuta ((Tourn.)) L. 1735  
 Cyamopsis DC. 1825  
 Cyclamen ((Tourn.)) L. 1735  
 Cyclanthera Schrad. 1831  
 Cycloloma Moq. 1840  
 Cydonia Tourn. ex Mill. 1752  
 Cymbalaria Medic. 1791  
 Cymbidium Sw. 1799  
 Cymbopogon Spreng. 1815  
 Cynara Vaill. ex L. 1737  
 Cynodon Rich. 1805  
 Cynoglossum ((Tourn.)) L. 1735  
 Cynosurus L. 1737  
 Cyperus ((Mich.)) L. 1735  
 Cyphomandra Mart. ex Sendtn. 1845  
 Cyripedium L. 1735  
 Cytisus L. 1735  
 Dactylis L. 1742  
 Dactyloctenium Willd. 1809  
 Dahlia Cav. 1791  
 Dalbergia L. f. 1781  
 Daphne Tourn. ex L. 1735  
 Datura L. 1735  
 Daucus ((Tourn.)) L. 1735  
 Delphinium Tourn. ex L. 1735  
 Dendrobium Sw. 1799  
 Dendropogon Rafin. 1825  
 Deschampsia Beauv. 1812  
 Desmodium Desv. 1813  
 Desplatzia Bocquill. 1866-67  
 Dianthus L. 1735  
 Dichrostachys Wight & Arn. 1834  
 Didiscus DC. 1828  
 Digitalis ((Tourn.)) L. 1735  
 Digitalia Heist. ex Adans. 1763  
 Dimorphotheca Vaill. ex L. 1735  
 Dioscorea Plum ex L. 1737  
 Diplacus Nutt. 1838  
 Diplotaxis DC. 1821  
 Dipsacus L. 1735  
 Dithyrea Harv. 1845  
 Dodonaea L. 1737  
 Dolichos L. 1737  
 Dombeya Cav. 1787  
 Doronicum Tourn. ex L. 1735  
 Dracaena Vand. 1762  
 Duchesnea Smith 1811  
 Ecballium A. Rich. 1824  
 Echinacea Moench 1794  
 Echinochloa Beauv. 1812  
 Echinocystis Torr. & Gray 1840  
 Echinops L. 1737  
 Echium Tourn. ex L. 1737  
 Eclipta L. 1771  
 Elaeis Jacq. 1763  
 Elaeophorbia Stapf 1906  
 Elettaria Maton 1811  
 Eleusine Gaertn. 1788  
 Elymus L. 1748  
 Emilia Cass. 1817  
 Emmenanthe Benth. 1835  
 Ensete Bruce 1862  
 Epidendrum L. 1737  
 Epilobium Dill. ex L. 1735  
 Equisetum ((Tourn.)) L. 1753  
 Eragrostis Host 1809  
 Eremocarpus Benth. 1844  
 Erigeron L. 1737  
 Eriobotrya Lindl. 1822  
 Eriochloa H. B. & K. 1815  
 Eriogonum Michx. 1803  
 Erodium L'Herit. 1787  
 Eryngium ((Tourn.)) L. 1735  
 Erysimum ((Tourn.)) L. 1735  
 Erythronium L. 1735  
 Erythropsis Endl. \*  
 Escallonia Mutis, ex L. f. 1781  
 Eschscholtzia Cham. 1820  
 (Eschscholtzia) Cham. 1820  
 Euchlaena Schrad. 1832  
 Eucomis L'Herit. 1788  
 Eugenia Mich. ex L. 1735  
 Euonymus L. 1737  
 Eupatorium ((Tourn.)) L. 1735  
 Euphorbia L. 1737  
 Evodia Forst. 1776  
 Fagopyrum Tourn. ex Hall. 1742  
 Feijoa Berg 1858  
 Ferula Tourn. ex L. 1737  
 Festuca ((Tourn.)) L. 1735  
 Ficus Tourn. ex L. 1735  
 Foeniculum Tourn. ex L. 1735  
 Forsythia Vahl 1805  
 Fortunella Swingle 1915  
 Fragaria ((Tourn.)) L. 1735  
 Frankenia L. 1737  
 Franseria Cav. 1793  
 Fraxinus Tourn. ex L. 1735  
 Freesia Klatt 1865-66  
 Fritillaria ((Tourn.)) L. 1735  
 Fuchsia ((Plum.)) L. 1735

- Fumaria* Tourn. ex L. 1735  
*Funtumia* Stapf 1901  
*Gaillardia* Foug. 1788  
*Galeopsis* L. 1735  
*Galinsoga* Ruiz & Pav. 1794  
*Galium* L. 1737  
*Galtonia* Decne. 1880  
*Gamolepis* Less. 1832  
*Gastridium* Beauv. 1812  
*Gaura* L. 1751  
*Gazania* Gaertn. 1791  
*Geranium* ((Tourn.)) L. 1735  
*Gerardia* L. 1737  
*Gerbera* Bronov. 1737  
*Gesneria* L. 1737  
*Geum* L. 1735  
*Gilia* Ruiz & Pav. 1794  
*Gladiolus* ((Tourn.)) L. 1735  
*Gleditsia* L. 1742  
*Gloriosa* L. 1735  
*Gloxinia* L'Herit. 1785  
*Glycine* L. 1737  
*Glyphaea* Hook. f. 1848  
*Gnaphalium* L. 1737  
*Godetia* Spach 1835  
*Gomphrena* L. 1737  
*Gossypium* L. 1735  
*Grewia* L. 1735  
*Grindelia* Willd. 1807  
*Guazuma* Plum. ex Adans. 1763  
*Gutierrezia* Lag. 1816  
*Gycosmis* Correa 1805  
*Gynerium* Humb. & Bonpl. 1809  
*Gypsophila* L. 1751  
*Haplopappus* Endl. 1838  
*Harpullia* Roxb. 1814  
*Haworthia* Duval 1809  
*Haynaldia* Kanitz 1877  
*Hedeoma* Pers. 1807  
*Hedera* Tourn. ex L. 1737  
*Hedychium* Koen. 1783  
*Hedysarum* ((Tourn.)) L. 1735  
*Helenium* L. 1753  
*Helianthus* L. 1735  
*Helichrysum* Vaill. ex L. 1737  
*Heliocarpus* L. 1740  
*Heliophila* Burm. f. ex L. 1763  
*Heliopsis* Pers. 1807  
*Heliotropium* ((Tourn.)) L. 1735  
*Helipterum* DC. 1837  
*Hemerocallis* L. 1735  
*Hemizonia* DC. 1836  
*Heracleum* L. 1735  
*Hermannia* L. 1735  
*Herrania* Goudot 1844  
*Hesperis* L. 1735  
*Hevea* Aubl. 1775  
*Hibiscus* L. 1737  
*Hicoria* (See *Carya*) Rafin. 1838  
*Hieracium* ((Tourn.)) L. 1735  
*Hildegardia* Schott & Endl. 1832  
*Hippeastrum* (See *Amaryllis*) Herb. 1821  
*Holcus* L. 1735  
*Holodiscus* Maxim. 1879  
*Hordeum* ((Tourn.)) L. 1735  
*Hosta* Tratt. 1812  
*Hoya* R. Br. 1809  
*Humulus* L. 1735  
*Hunnemannia* Sweet 1828  
*Hyacinthus* ((Tourn.)) L. 1735  
*Hydrangea* Gronov. ex L. 1737  
*Hymenocallis* Salisb. 1812  
*Hyoscyamus* ((Tourn.)) L. 1735  
*Hypericum* Tourn. ex L. 1737  
*Hypochoeris* L. 1737  
*Hypoxis* L. 1759  
*Iberis* Dill. ex L. 1735  
*Ilysanthes* Rafin. 1820  
*Impatiens* Riv. ex L. 1735  
*Incarvillea* Juss. 1789  
*Indigofera* L. 1737  
*Iodanthus* Torr. & Gray 1838  
*Ionoxalis* Small 1903  
*Ipomoea* L. 1735  
*Iris* Tourn. ex L. 1735  
*Isatis* Tourn. ex L. 1735  
*Ischaemum* L. 1742  
*Isomeris* Nutt. ex Torr. & Gray 1838  
*Isotoma* Lindl. 1826  
*Ixia* L. 1737  
*Jatropha* L. 1735  
*Juglans* L. 1737  
*Jussiaea* L. 1747  
*Kalanchoe* Adans. 1763  
*Kerria* DC. 1817  
*Kickxia* Blume 1828  
*Kleinhovia* L. 1763  
*Kniphofia* Moench 1794  
*Kochia* Roth 1801  
*Koeleria* Pers. 1805  
*Laburnum* L. 1735  
*Lactuca* ((Tourn.)) L. 1735  
*Laelia* Lindl. 1831  
*Laeliocattleya* X, Rolfe 1887  
*Lagenaria* Ser. 1825  
*Lamium* ((Tourn.)) L. 1735  
*Lantana* L. 1737  
*Lapsana* L. 1737  
*Lathyrus* ((Tourn.)) L. 1735  
*Launea* Endl. 1841  
*Lavandula* Tourn. ex L. 1740  
*Lavatera* L. 1737

- Layia Hook. & Arn. 1833  
Lens ((Tourn.)) L. 1735  
Leonotis R. Br. in Ait. 1811  
Leonurus L. 1735  
Lepidium L. 1735  
Lepidospartum A. Gray 1883  
Leptochloa Beauv. 1812  
Leptonychia Turcz. 1858  
Leptosyne DC. 1836  
Lespedeza Michx. 1803  
Lessingia Cham. 1829  
Liatris Schreb. 1791  
Ligularia Cass. 1816  
Ligusticum L. 1737  
Ligustrum ((Tourn.)) L. 1735  
Lilium Tourn. ex L. 1737  
Limonium Tourn. ex Mill. 1752  
Linaria Tourn. ex Mill. 1752  
Linum Tourn. ex L. 1735  
Lobelia Plum. ex L. 1737  
Lobularia Desv. 1814  
Lolium L. 1735  
Lonicera L. 1737  
Lotononis Eckl. & Zeyh. 1836  
Lotus ((Tourn.)) L. 1735  
Luffa ((Tourn.)) L. 1735  
Lunaria Tourn. ex L. 1735  
Lupinus ((Tourn.)) L. 1735  
Lychnis ((Tourn.)) L. 1735  
Lycium L. 1735  
Lycopersicon Tourn. ex Rupp. 1745  
(Lycopersicum) Hill. 1765  
Lycopsis L. 1735  
Lycopus Tourn. ex L. 1735  
Lythrum L. 1735  
Madia Molina 1782  
Majorana ((Tourn.)) Rupp. 1745  
Malachra L. 1767  
Malcomia ((R. Br. in)) Ait. Hort. Kew. 1812  
(Malcolmia) Spreng. 1818  
Malope L. 1735  
Malus Tourn. ex L. 1737  
Malva ((Tourn.)) L. 1735  
Malvastrum A. Gray 1849  
Manihot Tourn. ex Adans. 1763  
Mansonia J.R. Drumm. 1905  
Maranta Plum. ex L. 1737  
Marrubium Tourn. ex L. 1735  
Martynia Houst. ex L. 1735  
Matricaria ((Tourn.)) L. 1735  
Matthiola R. Br. 1812  
Medeola Gronov. ex L. 1735  
Medicago Tourn. ex L. 1737  
Melandryum Reichb. 1837  
Melilotus Tourn. ex Hall. 1742  
Melissa Tourn. ex L. 1737  
Melochia Dill. ex L. 1735  
Meloethria L. 1737  
Mentha ((Tourn.)) L. 1735  
Mentzelia Plum. ex L. 1737  
Merremia Dennst. 1818  
Mertensia Roth 1797  
Mesembryanthemum Dill. ex L. 1735  
Micrampelis (See Echinocystis) Rafin. 1808  
Microseris D. Don 1832  
Milletia Wight & Arn. 1834  
Mimulus L. 1741  
Mirabilis Riv. ex L. 1735  
Miscanthus Anderss. 1855  
Modiola Moench 1794  
Mollugo L. 1737  
Momordica ((Tourn.)) L. 1735  
Monolepis Schrad. 1830  
Moraea Mill. ex L. 1762  
Mucuna Adans. 1763  
Muhlenbergia Schreb. 1789  
Murraya Koen. ex L. 1771  
Musa L. 1736  
Muscari Tourn. ex Mill. 1752  
Myosotis ((Tourn.)) Dill. ex L. 1735  
Myrica L. 1735  
Narcissus ((Tourn.)) L. 1735  
Nasturtium L. 1735  
Nemesia Vent. 1803  
Nemophila Nutt. ex Barton 1882  
Neomarica Sprague 1928  
Nepeta Riv. ex L. 1737  
Nerium L. 1735  
Neslia Desv. 1814  
Nesogordonia Baill. 1886  
Nicandra Adans. 1763  
Nicotiana L. 1735  
Nierembergia Ruiz & Pav. 1794  
Nigella ((Tourn.)) L. 1735  
Nitrophila S. Wats. 1871  
Nolana L. 1762  
Nothopanax Miq., Seem. 1866  
Ochroma Sw. 1788  
Ocimum L. 1737  
Octolobus Welw. 1869  
Odontoglossum H. B. & K. 1815  
Oenanthe ((Tourn.)) L. 1735  
Oenothera L. 1735  
Omphalocarpum Beauv. 1805  
Oncidium Sw. 1800  
Onobrychis L. 1735  
Ophiopogon Ker-Gawl. 1807  
Orchis ((Tourn.)) L. 1735  
Ornithogalum ((Tourn.)) L. 1735  
Oryza L. 1735  
Oryzopsis Michx. 1803  
Oxalis L. 1737

- Pachira* Aubl. 1775  
*Pachyrhizus* Rich. ex DC. 1825  
*Paeonia* ((Tourn.)) L. 1735  
*Pamburus* Swingle 1916  
*Pancreatium* Dill. ex L. 1735  
*Panicum* L. 1735  
*Papaver* Tourn. ex L. 1735  
*Parthenium* L. 1735  
*Parthenocissus* Planch. in DC. 1887  
*Paspalum* L. 1759  
*Passiflora* L. 1735  
*Pastinaca* L. 1737  
*Pectocarya* DC. ex Meissn. 1840  
*Pedilanthus* Neck. 1790  
*Pelargonium* L'Herit. 1787  
*Pennisetum* Rich. 1805  
*Penstemon* Mitch. 1748  
 (Pentstemon) Mitch. 1748  
*Peperomia* Ruiz & Pav. 1794  
*Pepo* (See Cucurbita) ((Tourn.)) L. 1735  
*Persea* Plum. ex L. 1737  
*Persicaria* ((Tourn.)) L. 1735  
*Petroselinum* Hoffm. 1814  
*Petunia* Juss. 1803  
*Phacelia* Juss. 1789  
*Phalaris* L. 1735  
*Pharbitis* Choisy 1833  
*Phaseolus* ((Tourn.)) L. 1735  
*Phenax* Wedd. 1854  
*Philadelphus* ((Riv.)) L. 1735  
*Philodendron* Schott 1829  
*Phleum* L. 1735  
*Phlox* L. 1737  
*Phormium* Forst. 1776  
*Photinia* Lindl. 1821  
*Phyllanthus* L. 1737  
*Phyllostachys* Sieb. & Zucc. 1843  
*Physalis* L. 1735  
*Physostegia* Benth. 1829  
*Phytolacca* Tourn. ex L. 1735  
*Piaropus* Rafin. 1836  
*Picris* L. 1735  
*Pimpinella* ((Riv.)) L. 1735  
*Pisum* ((Tourn.)) L. 1735  
*Pittosporum* Banks, ex Gaertn. 1788  
*Plantago* Tourn. L. 1735  
*Platycodon* A. DC. 1830  
*Pluchea* Cass. 1817  
*Poa* L. 1737  
*Polanisia* Rafin. 1818  
*Polemonium* ((Tourn.)) L. 1735  
*Polyanthus* Auct. ex Benth. & Hook. 1883  
*Polygonatum* ((Tourn.)) Adans. 1763  
*Polygonum* ((Tourn.)) L. 1735  
*Polypodium* ((Tourn.)) L. 1753  
*Polypogon* Desf. 1798  
*Pontederia* L. 1735  
*Populus* L. 1735  
*Portulaca* L. 1735  
*Potentilla* L. 1735  
*Primula* L. 1735  
*Proboscidea* Schmid. 1747  
*Prunella* L. 1753  
*Prunus* ((Tourn.)) L. 1735  
*Pseudotsuga* Carr. 1867  
*Psidium* L. 1737  
*Psophocarpus* Neck. 1790  
*Psoralea* L. 1742  
*Ptelea* L. 1735  
*Pterygota* Schott & Endl. 1832  
*Pueraria* DC. 1825  
*Punica* ((Tourn.)) L. 1735  
*Pycnanthus* Warb. 1895  
*Pyracantha* M. Roem. 1847  
*Pyrethrum* Hall. 1742  
*Pyrus* ((Tourn.)) L. 1735  
*Quamoclit* Tourn. ex Moench 1794  
*Radicula* Dill. ex Moench 1794  
*Ranunculus* ((Tourn.)) L. 1735  
*Raphanus* ((Tourn.)) L. 1735  
*Reseda* Tourn. ex L. 1735  
*Rhagodia* R. Br. 1810  
*Rheum* L. 1735  
*Rhoeo* Hance 1853  
*Rhus* ((Tourn.)) L. 1737  
*Rhynchosia* Lour. 1790  
 (Rynchosia) MacFad. 1837  
*Ribes* L. 1737  
*Ricinodendron* Muell. 1864-1865  
*Ricinus* ((Tourn.)) L. 1735  
*Rivinia* Plum. ex L. 1735  
*Robinia* L. 1737  
*Rorippa* Scop. 1760  
 (Roripa) Scop. 1760  
*Rosa* Tourn. ex L. 1735  
*Rosmarinus* ((Tourn.)) L. 1735  
*Rottbeollia* L. f. 1779  
*Rubus* ((Tourn.)) L. 1735  
*Rudbeckia* L. 1735  
*Ruellia* Plum. ex L. 1735  
*Rumex* L. 1735  
*Ruta* ((Tourn.)) L. 1735  
*Saccharum* L. 1737  
*Sagittaria* Rupp. ex L. 1735  
*Saintpaulia* H. Wendl. 1893  
*Salix* ((Tourn.)) L. 1735  
*Salpiglossis* Ruiz & Pav. 1794  
*Salsola* L. 1735  
*Salvia* ((Tourn.)) L. 1735  
*Sambucus* Tourn. ex L. 1735  
*Samolus* ((Tourn.)) L. 1735  
*Sanguisorba* Rupp. ex L. 1735

- Sanicula ((Tourn.)) L. 1735  
Sansevieria Thunb. 1794  
Santalum L. 1742  
Sanvitalia Gualt. in Lam. 1792  
Saponaria L. 1735  
Saracha Ruiz & Pav. 1794  
Satureia L. 1737  
Scabiosa ((Tourn.)) L. 1735  
Scaevola L. 1771  
Scaphopetalum Mast. 1869  
Schizanthus Ruiz & Pav. 1794  
Scilla L. 1735  
Scoparia L. 1748  
Scorzonera ((Tourn.)) L. 1735  
Scrophularia Tourn. ex L. 1735  
Scytropetalum Pierre 1897  
Secale ((Tourn.)) L. 1735  
Sechium P. Br. 1756  
Sedum Tourn. ex L. 1735  
Senecio ((Tourn.)) L. 1735  
Sesamum L. 1737  
Sesbania Scop. 1777  
Setaria Beauv. 1807  
Severinia Tenore 1840  
Sicana Naud. 1862  
Sicyos L. 1735  
Sida L. 1735  
Silene L. 1735  
Silybum Vaill. ex Adans. 1763  
Sinapis (See Brassica) L. 1735  
Sinningia Nees 1825  
Sisymbrium ((Tourn.)) L. 1735  
Sitanion Rafin. 1819  
Smilacina Desf. 1807  
Smilax ((Tourn.)) L. 1735  
Soja (See Glycine) Moench 1794  
(Soya) Benth. 1838  
Solanum ((Tourn.)) L. 1735  
Solidago ((Vaill.)) L. 1735  
Sonchus ((Tourn.)) L. 1735  
Sorbus ((Tourn.)) L. 1735  
Sorghastrum Nash 1901  
Sorghum L. 1735  
Sparaxis Ker-Gawl. 1804  
Spathoglottis Blume 1825  
Spergula L. 1735  
Spinacia ((Tourn.)) L. 1735  
Sprekelia Heist. 1748  
Stachys ((Tourn.)) L. 1735  
Stachytarpheta Vahl 1805  
Stanleya Nutt. 1818  
Statice Tourn. ex L. 1735  
Stellaria L. 1753  
Stenotaphrum Trin. 1820  
Sterculia L. 1747  
Stipa L. 1753  
Stizolobium (See Mucuna) P. Br. 1756  
Stokesia L'Herit. 1788  
Streptanthera Sweet 1827  
Streptosolen Miers 1850  
Strychnos L. 1735  
Stylosanthes Sw. 1788  
Suaeda Forsk. 1775  
Swainsona Salisb. 1805  
Swinglea Merrill 1927  
Symphoricarpos Dill. ex Juss. 1789  
Symplocarpus Salisb. ex Nutt. 1818  
Synedrella Gaertn. 1791  
Syntherisma Walt. 1788  
Syringa L. 1735  
Tabebuia Gomez 1803  
Tacsonia Juss. 1789  
Tagetes L. 1737  
Talinum Adans. 1763  
Tanacetum Tourn. ex L. 1735  
Taraxacum L. 1735  
Tarrietia Blume 1825  
Tephrosia Pers. 1807  
Tetragonia L. 1735  
Thea L. 1735  
Thelesperma Less. 1831  
Thelypodium Endl. 1839  
Theobroma L. 1737  
Thespesia Soland. ex Correa 1807  
Thlaspi ((Tourn.)) L. 1737  
Thunbergia Retz. 1776  
Tigridia Juss. 1789  
Tilia ((Tourn.)) L. 1735  
Tillandsia L. 1735  
Tithonia Desf. ex Juss. 1789  
Torenia L. 1751  
Trachelium Tourn. ex L. 1735  
Trachymene Rudge 1811  
Tradescantia Rupp. ex L. 1735  
Tragopogon ((Tourn.)) L. 1735  
Trema Lour. 1790  
Trianthema L. 1753  
Tribulus Tourn. ex L. 1735  
Tricholaena Schrad. 1824  
Trichosanthes L. 1737  
Tricyrtis Wall. 1826  
Trifolium ((Tourn.)) L. 1735  
Trigonella L. 1737  
Trillium L. 1753  
Triphasia Lour. 1790  
Triplochiton K. Schum. \*  
Tripsacum L. 1759  
Triticum L. 1735  
Tritonia Ker-Gawl. 1802  
Triumfetta Plum, ex L. 1737  
Tropaeolum L. 1737  
Tulipa L. 1735

Tunica Hall. 1742  
Tussilago ((Tourn.)) L. 1735  
Typha L. 1735  
Ulmus ((Tourn.)) L. 1735  
Urena Dill. ex L. 1735  
Urochloa Beauv. 1812  
Urtica ((Tourn.)) L. 1735  
Uvularia L. 1737  
Vaccinium L. 1735  
Valeriana Tourn. ex L. 1735  
Valerianella Tourn. ex Hall. 1742  
Valerianoides Medic. 1789  
Vallota Herb. 1821  
Vanda Jones 1795  
Venidium Less. 1831  
Verbascum Tourn. ex L. 1737  
Verbena L. 1737  
Verbesina L. 1735  
Vernonia Schreb. 1791  
Veronica ((Tourn.)) L. 1735  
Vicia Tourn. ex L. 1735  
Vigna Savi 1826 ?  
Vinca L. 1735  
Viola Tourn. ex L. 1735  
Vitis ((Tourn.)) L. 1735  
Waltheria L. 1737  
Watsonia Mill. 1759  
Wistaria Nutt. 1818  
(Wisteria) Nutt. 1818  
Withania Pauq. 1824  
Xanthium ((Tourn.)) L. 1735  
Xanthosoima Schott 1832  
Xanthoxalis Small 1903  
Xeranthemum Tourn. ex L. 1735  
Yucca Dill. ex L. 1737  
Zaluzianskya F.W. Schmidt 1793  
Zantedeschia Spreng. 1826  
Zea L. 1737  
Zebrina Schnizl. 1849  
Zephyranthes Herb. 1821  
Zinnia L. 1759  
Zizyphus Tourn. ex L. 1735  
Zygadenus Michx. 1803  
Zygocactus K. Schum. \*  
Zygopetalum Hook. 1827



