

78I 234663
Plant Inventory No. 163

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C., June 1964



~~X~~ PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1955
(NOS. 222846 TO 230876). ~~X~~

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This inventory, No. 163, lists the plant material (Nos. 222846 to 230876) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period January 1 to December 31, 1955. From 1954 to 1957, the branch was known as the Plant Introduction Section, Horticultural Crops Research Branch, Agricultural Research Service, United States Department of Agriculture. The inventory is a historical record of plant material introduced for Department and other specialists and is not to be considered as a list of plant material for distribution.

EUGENE GRIFFITH,
Botanist.

*Plant Industry Station,
Beltsville, Md.*

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

JUL 28 1964

CURRENT SERIAL RECORDS

11 DEB. 1900

1900

1900

INVENTORY

222846. RAUVOLFIA TETRAPHYLLA L. Apocynaceae

Fourleaf devilpepper.

From Costa Rica. Seeds presented by Jorge Leon, Turrialba. Received Jan. 3, 1955.

222847. RAUVOLFIA sp.

From Colombia. Seeds presented by the Instituto Ciencias Naturales, Bogota. Received Jan. 3, 1955.

222848 to 222853.

From the Union of South Africa. Seeds presented by the Department of Agriculture, Pretoria, Transvaal. Received Jan. 3, 1955.

222848. BRACHIARIA BRIZANTHA (Hochst.) Stapf Poaceae. **Palisade signalgrass.**

222849. EHRHARTA CALYCINA J. E. Sm. Poaceae. **Perennial veldtgrass.**

222850. HYPARRHENIA HIRTA (L.) Stapf Poaceae.

222851. PANICUM COLORATUM L. Poaceae.

222852. TETRAGONIA ARBUSCULA Fenzl Aizoaceae.

222853. THEMEDA TRIANDRA Forsk. Poaceae.

222854 to 222927. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae. **Azalea.**

From Great Britain. Plants purchased from J. Waterer Sons & Crisp, Limited, Bagshot, Surrey, England. Received Dec. 30, 1954.

222854. 'Aida' (G&R).

222873. 'Elizabeth'.

222855. 'Afterglow' (M × S).

222874. 'Mrs. A. E. Endtz'.

222856. 'Altaclalense Sunbeam'.

222875. 'Mrs. L. J. Endtz'.

222857. 'Anthony Koster'.

222876. 'Enile Lie Big'.

222858. 'Aurea Grandiflora'.

222877. 'Fanny'.

222859. 'Babeuf' (M × S).

222878. 'Favourite'.

222860. 'Barthold Lazzari'.

222879. 'Frans-Van-der-bom'.

222861. 'Bouquet-De-Flore'.

222880. 'Friesia'.

222862. 'Brazil'.

222881. 'Gloria Mundi'.

222863. 'Bridesmaid'.

222882. 'Gloriosa'.

222864. 'Brilliant Red'.

222883. 'Graciosa'.

222865. 'Chromatella' (G&R).

222884. 'Graf Van Meiran'.

222866. 'Coccinea speciosa'.

222885. 'Grandeur Triumphant'.

222867. 'Comte-de-Gomer'.

222886. 'Hortulanus White'.

222868. 'Comte-de-Papadopoli'.

222887. 'Hrethusa'.

222869. 'Dainty'.

222888. 'Hugo Hardyzer'.

222870. 'Daviesii'.

222889. 'Hugo Koster'.

222871. 'Delicatissima'.

222890. 'Il Tasso'.

222872. 'Dulcinae'.

222891. 'Irene Koster'.

222854 to 222927—Continued

222892. 'Isabelle Van Houtte'.	222910. 'Phoebe'.
222893. 'John Kersberger'.	222911. 'Pruteus'.
222894. 'Liebnitz'.	222912. 'Queen Sophie'.
222895. 'Magnifica'.	222913. 'Rosa Plena'.
222896. 'Margot Koster'.	222914. 'Rosette'.
222897. 'Mde Arthur-De-Warrelley'.	222915. 'Sang De Gentbrugge'.
222898. 'Milton' (G&R).	222916. 'T. J. Seidel'.
222899. 'Nancy Waterer'.	222917. 'Shakespeare' (M × S).
222900. 'Narcissiflora'.	222918. 'Superba'.
222901. 'Norma'.	222919. 'Tangerine'.
222902. 'Dr. M. Oosthoek'.	222920. 'David Teniers' (M × S).
222903. 'Mrs. Oosthoek' (M × S).	222921. 'Thisbe' (G&R).
222904. 'Orange Man'.	222922. 'Tubantia'.
222905. 'Orange Blotched'.	222923. 'Unique' (G&R).
222906. 'Orpheus'.	222924. 'J. C. Van-Thol'.
222907. 'Peter Kersbergen'.	222925. 'Victoria'.
222908. 'Phallas'.	222926. 'Vulcan'.
222909. 'Phidias' (G&R).	222927. 'William III' (G&R).

222928 to 222937

From the Philippines. Seeds presented by the Central Experiment Station, Laguna.
Received Jan. 3, 1955.

222928 to 222931. <i>COFFEA EXCELSA</i> Cheval. Rubiaceae.	Congo coffee.
222928. Berries pointed.	
222929. Berries large with large blossom scar.	
222930. Berries large with small blossom scar.	
222931. Berries round with protuberance on blossom end.	
222932 and 222933. <i>COFFEA LIBERICA</i> Bull.	Liberian coffee.
222932. No. 5. Berries average size.	
222933. No. 6. Berries small.	
222934 to 222936. <i>COFFEA CANEPHORA</i> Pierre ex Froehn.	Coffee.
222934. No. 7. Berries large.	
222935. No. 8. Berries medium.	
222936. No. 9. Berries small.	
222937. <i>COFFEA</i> (hybrid). 'Hybrid X'.	

222938. *LABURNUM ALPINUM* (Mill.) Berch. & Presl. Fabaceae.
Scotch laburnum.

From the Netherlands. Seeds presented by the Botanic Gardens, University of Utrecht, Utrecht. Received Jan. 4, 1954.

222939 to 222952. *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**

From Great Britain. Tubers presented by the Scottish Plant Breeding Station, Pentlandsfield, Roslin, Midlothian, Scotland. Received Jan 4, 1955.

222939. 'International Kidney'.	222941. 'Southesk'.
222940. 'Kepplestone Kidney'.	222942. 'Shamrock'.

222939 to 222952—Continued

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|---------------------------|----------------------------|
| 222943. 1591(b)9. | 222948. G414(a)142. |
| 222944. G174(c)51. | 222949. G409(b)39. |
| 222945. G182(a)16. | 222950. G409(b)55. |
| 222946. G414(a)7. | 222951. G489(c)45. |
| 222947. G414(a)64. | 222952. G603(6). |

222953 to 223023

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Jan. 4, 1955.

222953 to 222955. *AGROPYRON CRISTATUM* (L.) Gaertn. Poaceae.

Crested wheatgrass.

222953. Col. No. 1521. Twenty-three km. east of Sarab, road to Ardabil, Azerbaijan. Nov. 6, 1954. Elevation 2,000 m. Found on dry, barren hilltop.

222954. Col. No. 1582. Sixty-three km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,100 m.

222955. Col. No. 1706. Thirty km. south of Khoy, road to Rezaiyeh, Azerbaijan. Nov. 15, 1954. Elevation 1,600 m.

222956. *AGROPYRON BUONAPARTIS* (Spreng.) Dur. & Schinz

Wheatgrass.

Col. No. 1824. One hundred and eleven km. northwest of Tehran, road to Kaziwan. Nov. 19, 1954. Elevation 1,500 m.

222957. *AGROPYRON CRISTATUM* (L.) Gaertn.

Crested wheatgrass.

Col. No. 1831. Alborz Mountains, 74 km. northeast of Tehran. Nov. 22, 1954. Elevation 1,600 m.

222958 and 222959. *AGROPYRON ELONGATUM* (Host) Beauv.

Tall wheatgrass.

Forty-four km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,500 m. Growing on dry rocky slope.

222958. Col. No. 1579.

222959. Col. No. 1580.

222960. *AGROPYRON ELONGATIFORME* Drobov

Wheatgrass.

Col. No. 1505. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m. Grows to 1 m. high.

222961. *AGROPYRON INTERMEDIUM* (Host) Beauv.

Intermediate wheatgrass.

Col. No. 1820. One hundred and sixteen km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,600 m.

222962. *AGROPYRON* sp.

Col. No. 1829. Seventy-four km. east of Tehran, Alborz Mountains. Nov. 22, 1954. Elevation 1,700 m.

222963. *AIRA* sp. Poaceae.

Col. No. 1710. Twenty-eight km. north of Rezaiyeh, lake shore, Azerbaijan. Nov. 15, 1954. Elevation 1,500 m. Salt-resistant bunchgrass.

222964. *ANETHUM GRAVEOLENS* L. Apiaceae.

Dill.

Col. No. 1463. 'Sheveed'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Leaves used as flavoring in cooking.

222965. *APERA INTERRUPTA* (L.) Beauv. Poaceae.

Col. No. 1578. Forty-four km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,500 m. Small, fine-leaved bunchgrass growing on dry rocky slope.

222953 to 223023—Continued**222966.** *APERA* sp.

Col. No. 1705. Thirty km. south of Khoy, road to Rezaiyeh, Azerbaijan. Nov. 15, 1954. Elevation 1,600 m.

222967. *APIUM GRAVEOLENS* L. Apiaceae.**Celery.**

Col. No. 1597. 'Karafs'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

222968. *BROMUS TOMENTELLUS* Boiss. Poaceae.**Brome.**

Col. No. 1832. Northwest of Shiraz. Well grazed.

222969. *ARUNDO DONAX* L. Poaceae.**Giantreed.**

Col. No. 1585. Fifteen km. north of fork on the new road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,100 m.

222970. *BETA VULGARIS* L. Chenopodiaceae.**Common beet.**

Col. No. 1598. 'Choghondar Ghand'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

222971. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae.**Cauliflower.**

Col. No. 1605. 'Kalam Pich'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

222972 and 222973. *BRASSICA OLERACEA* var. *GONGYLODES* L.**Kohlrabi.****222972.** Col. No. 1606. 'Kalam Ghomri'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222973.** Col. No. 1552. 'Kalam Ghomri'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m.**222974 and 222975.** *CAPSICUM FRUTESCENS* L. Solanaceae.**Redpepper.****222974.** Col. No. 1599. 'Felfel'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222975.** Col. No. 1600. 'Felfel Sabz'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Small green pepper.**222976 to 222979.** *CICER ARIETINUM* L. Fabaceae.**Chickpea.****222976.** Col. No. 1451. 'Nakhood-i-Zart'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.**222977.** Col. No. 1452. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds white.**222978.** Col. No. 1453. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds black.**222979.** Col. No. 1454. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds white.**222980 to 222984.** *CUCUMIS MELO* L. Cucurbitaceae.**Muskmelon.****222980.** Col. No. 1466. 'Kharbozeh'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Fruit round, yellow-green; flesh yellowish-white.**222981.** Col. No. 1592. 'Kharbozeh Kakhoda'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222982.** Col. No. 1593. 'Kharbozeh Yazd'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, yellow.**222983.** Col. No. 1594. 'Kharbozeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit round.**222984.** Col. No. 1596. 'Kharbozeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit elongate.

222953 to 223023—Continued

- 222985 to 222987.** *CUCUMIS SATIVUS* L. **Cucumber.**
222985. Col. No. 1467. 'Khiar'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Plants wild.
222986. Col. No. 1590. 'Khiareh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Said to be excellent.
222987. Col. No. 1591. 'Khiar'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 222988.** *ERAGROSTIS PILOSA* (L.) Beauv. Poaceae. **Lovegrass.**
 Col. No. 1787. Seventy-four km. east of Kermanshah, road to Hamedan. Nov. 18, 1954. Elevation 1,500 m.
- 222989.** *FESTUCA SCLEROPHYLLA* Boiss. Poaceae. **Fescue.**
 Col. No. 1512. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,600 m. Wild.
- 222990.** *FOENICULUM VULGARE* Mill. Apiaceae. **Fennel.**
 Col. No. 1728. 'Razianeh'. Market, Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 1,500 m. Used for flavoring cheese.
- 222991.** *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**
 Col. No. 1608. 'Aftab Gartan'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 222992.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
 Col. No. 1518. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,850 m. Weed in cultivated fields.
- 222993 and 222994.** *LACTUCA SATIVA* L. Cichoriaceae. **Garden lettuce.**
222993. Col. No. 1609. 'Kahou Siah'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Black type.
222994. Col. No. 1610. 'Kahou Sefid'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. White type.
- 222995 to 222997.** *LENS CULINARIS* Medic. Fabaceae. **Lentil.**
222995. Col. No. 1449. 'Adas'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
222996. Col. No. 1450. 'Adas'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
222997. Col. No. 1615. 'Adas'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 260 m.
- 222998.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**
 Col. No. 1617. 'Bazrak'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 260 m. Oilseed.
- 222999.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
 Col. No. 1455. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
- 223000.** *MELILOTUS DENTATA* (Wald. & Kit.) Pers. Fabaceae. **Sweetclover.**
 Col. No. 1507. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m.
- 223001.** *NARDURUS ORIENTALIS* Boiss. Poaceae.
 Col. No. 1882. One hundred and ten km. northwest of Tehran, road to Qazaan. Nov. 19, 1954. Elevation 1,500 m. Plant habit similar to *Festuca* spp.
- 223002 and 223003.** *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**
223002. Col. No. 1456. 'Mash'. Market, Tabriz. Nov. 5, 1954.
223003. Col. No. 1461. 'Mash'. Market, Tabriz. Nov. 5, 1954.

222953 to 223023—Continued

- 223004 to 223008.** *PHASEOLUS VULGARIS* L. **Common bean.**
223004. Col. No. 1457. 'Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
223005. Col. No. 1458. 'Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
223006. Co. No. 1459. 'Ablagh-Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 11,500 m.
223007. Col. No. 1462. 'Lubia'. Market, Tabriz. Nov. 5, 1954.
223008. Col. No. 1607. 'Lubia'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 223009.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
 Col. No. 1535. 'Nakhood Farangai'. Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m.
- 223010.** *PUCCINELLIA* sp. Poaceae.
 Col. No. 1513. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m.
- 223011 and 223012.** *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
223011. Col. No. 1537. 'Torob'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m. Color white.
223012. Col. No. 1595. 'Torobcheh'. Moghan Steppes, Azerbaijan. Elevation 125 m. Root red; flesh firm.
- 223013.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**
 Col. No. 1616. 'Karchak'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 250 m.
- 223014.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
 Col. No. 1614. 'Konjet'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Source of oil.
- 223015 to 223018.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
223015. Col. No. 1601. 'Badenjan Rasmi Siah'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
223016. Col. No. 1602. 'Badenjan Sefid'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit white.
223017. Col. No. 1603. 'Badanjan'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, black, excellent.
223018. Col. No. 1604. 'Badenjan Ghalami'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, black, excellent.
- 223019.** *THUJA ORIENTALIS* L. Pinaceae. **Oriental arborvitae.**
 Col. No. 1613. 'Sarve Khormei'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 223020.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**
 Col. No. 1816. One hundred and ten km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,300 m.
- 223021.** *TRIFOLIUM REPENS* L. **Whiteclover.**
 Col. No. 1815. One hundred and ten km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,300 m.
- 223022.** *TRIGONELLA FOENUM-GRaecum* L. Fabaceae. **Fenugreek.**
 Col. No. 1534. 'Shambalilem'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m. Seed used as a laxative for cattle.

223953 to 223023—Continued

223023. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 1460. 'Lobia-cheshmbolboli'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.

223024. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Poaceae. **Turkestan bluestem.**

From Greece. Seeds presented by the Range Management Specialist, Athens. Received Jan. 6, 1955.

Collected in eastern Macedonia during August, 1954. Elevation 650 m. Average annual precipitation 65 cm.

223025 to 223030. *GOSSYPIUM* (hybrids). Malvaceae. **Cotton.**

From Brazil. Seeds presented by the Instituto Agronómico, Campinas, São Paulo Received Jan. 6, 1955.

223025. Delfos 40/137. **223028.** I. A. G. 48/530.

223026. D. P. 12-51/577. **223029.** I. A. G. 48/571.

223027. I. A. Campinas 817. **223030.** I. A. G. 43/981.

223031. *RAUVOLFIA VOMITORIA* Afzel. Apocynaceae. **Devilpepper.**

From the Belgian Congo. Cuttings presented by Father H. Callens, Kisantu. Received Jan. 13, 1955.

223032. *ZINNIA PUMILA* A. Gray Asteraceae.

From Mexico. Seeds presented by T. Rzedowski, San Luis Potosi. Received Jan. 17, 1955.

Collected near Laguna Seca, San Luis Potosi.

223033 to 223036. *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

From Spain. Seeds presented by the American Embassy, Madrid. Received Jan. 6, 1955.

223033. 'No. 1'. **223035.** 'Ocal'.

223034. 'Dulce'. **223036.** 'Picante'.

223037 to 223129.

From Great Britain. Plants purchased from the Knap Hill Nursery, Limited, Woking, Surrey, England. Received Jan. 7, 1955.

223037 to 223108. *RHODODENDRON* (hybrids). Ericaceae.

223037. 'Ada Brunieres'. **223050.** 'Fireglow'.

223038. 'Albatross'. **223051.** 'Flaming June'.

223039. 'Ann Callingham'. **223052.** 'Florence Pilkington'.

223040. 'Avocet'. **223053.** 'Gannett'.

223041. 'Barbara Jenkinson'. **223054.** 'Goldcrest'.

223042. 'Bullfinch'. **223055.** 'Gold Eagle'.

223043. 'Buzzard'. **223056.** 'Goldeneye'.

223044. 'Chaffinch'. **223057.** 'Goldfinch'.

223045. 'Colin Kenrick'. **223058.** 'Golden Oriole'.

223046. 'Donald Waterer'. **223059.** 'Gwenda Kitcat'.

223047. 'Eva Goude'. **223060.** 'Gwyneth'.

223048. 'Exbury Azalea Brazil A'. **223061.** 'Harvest Moon'.

223049. 'Firecrest'. **223062.** 'Hawfinch'.

223037 to 223129—Continued**223037 to 223108—Continued**

223063. 'Heron'.	223086. 'Occidentalis Hybrid A'.
223064. 'Hiawatha'.	223087. 'Occidentalis Hybrid B'.
223065. 'Homebush'.	223088. 'Occidentalis Hybrid C'.
223066. 'Hoopoe'.	223089. 'Occidentalis Hybrid D'.
223067. 'Iora'.	223090. 'Penguin'.
223068. 'Jock Coutts'.	223091. 'Red Indian'.
223069. 'Kestrel'.	223092. 'Redstart'.
223070. 'Knap Hill Apricot'.	223093. 'Rosella'.
223071. 'Knap Hill Orange'.	223094. 'Ruddy Duck'.
223072. 'Knap Hill Pink'.	223095. 'Ruth Davies'.
223073. 'Knap Hill Red'.	223096. 'Sandpiper'.
223074. 'Knap Hill White'.	223097. 'Satan'.
223075. 'Knap Hill Yellow'.	223098. 'Spoonbill'.
223076. 'Lady Derby'.	223099. 'Sunset'.
223077. 'Lady Rosebery'.	223100. 'Sylphides'.
223078. 'Lapwing'.	223101. 'Tanager'.
223079. 'Linnet'.	223102. 'Toucan'.
223080. 'Marion Merriman'.	223103. 'Troupial'.
223081. 'Mephistopheles'.	223104. 'Violet Gordon'.
223082. 'Merlin'.	223105. 'Viscosepala'.
223083. 'Mrs. A. Waterer'.	223106. 'Whitethroat'.
223084. 'Mrs. Gomer Waterer'.	223107. 'Wryneck'.
223085. 'Nys. 33'.	223108. 'Yaffle'.

223109 to 223129. RHODODENDRON × KOSTERIANUM Schneid. Koster azalea.

223109. 'Ambroise Verschaffelt'.	223120. 'Hamlet'.
223110. 'Chevalier de Reali'.	223121. 'Hugo Koster'.
223111. 'Chicago'.	223122. 'Jeanne Costbeck'.
223112. 'Consul Ceresole'.	223123. 'King Albert'.
223113. 'Dr. Reitenbach'.	223124. 'Marmion'.
223114. 'F. de Koninck'.	223125. 'Nicholas Beets'.
223115. 'Frans van der Bom'.	223126. 'Queen Emma'.
223116. 'General Vetter'.	223127. 'Queen Sophie'.
223117. 'Goldball'.	223128. 'Robespierre'.
223118. 'Golden Queen'.	223129. 'T. J. Seidel'.
223119. 'Golden Sunlight'.	

223130 to 223174.

From Jordan. Seeds presented by the United States Operations Mission to Jordan, Amman. Received Jan. 7, 1955.

223130 to 223149. HORDEUM VULGARE L. Poaceae.	Barley.
223130. 'Arabi'.	223132. B. M. C.
223131. 'Baladi'.	223133. B. 22.

222130 to 223174—Continued**223130 to 223149—Continued**

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| 223134. B. 24. | 223142. 'Habashi'. |
| 223135. B. 172. | 223143. 'Herawi'. |
| 223136. B. 182. | 223144. 'Italian'. |
| 223137. B. 303. | 223145. 'Konari'. |
| 223138. C. 25. | 223146. 'Nabawi'. |
| 223139. F. 48. | 223147. Sword-like. |
| 223140. F. 78. | 223148. 'Tribute'. |
| 223141. F. K. 51 | 223149. Two lines. |

223150 to 223174. TRITICUM AESTIVUM L. Poaceae. Common wheat.

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|----------------------------|------------------------------|
| 223150. 'Auttma White'. | 223163. 'Karakı Red'. |
| 223151. C. C. C. | 223164. 'Ma'ni Yellow'. |
| 223152. 'Durgi Karaki'. | 223165. 'Moghrabi'. |
| 223153. 'Fair Nayimia' | 223166. P. I. |
| 223154. F-8. | 223167. 'Salti Auttma Hiti'. |
| 223155. 'Gubieha Auttma'. | 223168. 'Salti Balga'. |
| 223156. 'Harani Auttma'. | 223169. 'Salti Na'zimia'. |
| 223157. 'Italian'. | 223170. 'Salti Norsı'. |
| 223158. 'Jaljulı 5'. | 223171. 'Tafeelih Riti'. |
| 223159. 'Jaljulı 45'. | 223172. W. I. 17. |
| 223160. 'Jaljulı 50'. | 223173. 'Yellow Jarash'. |
| 223161. 'Kafel Rahman'. | 223174. 'Yellow Zghabi'. |
| 223162. 'Karakı Moghrabi'. | |

223175 and 223176. ORYZA SATIVA L. Poaceae. Rice.

From Formosa. Seeds presented by Dr. Eikichi Iso, through the American Embassy, Taipei. Received Apr. 28, 1954. Numbered Jan. 10, 1955.

223175. 'Shinchiku No. 7'.
223176. 'Taichu-ıko No. 60'.

223177 to 223184.

From Greece. Seeds presented by the American Embassy, Athens. Received Jan. 10, 1955.

223177. FESTUCA sp. Poaceae.

On road from Egoumenitsa to Ioannina. Sept. 14, 1954. Elevation 300 m.

223178. LOLIUM PERENNE L. Poaceae. Ryegrass.

Collected by Ch. Aravantinos, village of Ayia Paraskevi. Sept. 12, 1954. Elevation 1,000 m.

223179 to 223182. PHALARIS AQUATICA L. Poaceae. Large canarygrass.

223179. Highway from Egoumenitsa to Ioannina. Sept. 15, 1954. Elevation 280 m.
223180. Road from Agrinion to Amphiloehia. Sept. 12, 1954. Elevation 55 m.
223181. Road from Domokos (Metallion) to Lamia. Sept. 8, 1954. Elevation 160 m.
223182. From Preveza to Yannina. Sept. 15, 1954.

223177 to 223184—Continued

223183. *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**
Near the highway from Amphilochia to Arta. Sept. 15, 1954.

223184. *TRIFOLIUM REPENS* L. **Whiteclover.**
Road from Kalambaka to Metsovon. Sept. 9, 1954. Elevation 660 m.

223185 to 223192. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano Agricultura, Quito. Received Jan. 11, 1955.

223185. 'Atacatzto No. 1', 3138. **223189.** 'Inca Roca No. 1', 3332-3.

223186. 'Atahualpa No. 1', 3939. **223190.** 'Kuntur No. 1', 3470.

223187. 'Hatun-Muru No. 1',
745-1. **223191.** 'Tambillo No. 1', 753-1.

223192. 'Viracocha No. 2', 4678.

223188. 'Huascav No. 1', 3247.

223193 to 223229

From India. Budsticks presented by the Horticultural Development Officer, Assam. Received Jan. 12, 1955.

223193. *CITRUS* sp. Rutaceae.
'Ada-jamir'.

223194 and 223195. *CITRUS AURANTIFOLIA* (Christm.) Swingle **Lime.**

223194. 'Abhayapuri'.

223195. 'Karimganj'.

223196. *CITRUS AURANTIUM* L. **Sour orange.**
'Gond-huntra'.

223197. *CITRUS GRANDIS* (L.) Osbeck **Pummelo.**
'Khanapara Rabab'.

223198. *CITRUS INDICA* Tanaka **India wild orange.**
'Banaria Kamala'.

223199 to 223204. *CITRUS JAMBHIRI* Lush.

223199. 'Kata Jamir'. **223202.** 'Sinduri-nemu-tenga'.

223200. 'Mitha-tulia'. **223203.** 'Soh-jhalia'.

223201. 'Nemu-tenga'. **223204.** 'Soh-myndong'.

223205. *CITRUS LIMETTA* Risso **Sweet lime.**
'Mitha-kagzi'.

223206 to 223214. *CITRUS LIMON* (L.) Burm. f. **Lemon.**

223206. 'Assam'. **223211.** 'Pani-jamir'.

223207. 'Elachi-lebu'. **223212.** 'Pati Lebu'.

223208. 'Godha-pati-lebu'. **223213.** 'Soh-long'.

223209. 'Jora-tenga'. **223214.** 'Soh-synteng'.

223210. 'Kata Jamuri'.

223215. *CITRUS MACROPTERA* Mont.
'Sat-kara'.

223216 to 223218. *CITRUS MEDICA* L. **Citron.**

223216. 'Bira-jora'.

223217. 'Mitha-jora'.

223218. 'Soh-manong'.

223193 to 223229—Continued

223219 to 223221. CITRUS MEGALOXYCARPA Lush.

223219. 'Aijahal'.

223220. 'Bar-tenga'.

223221. 'Hukma-tenga'.

223222. CITRUS NOBILIS Lour.

King orange.

'Jeneru-tenga'.

223223 to 223225. CITRUS RETICULATA Blanco

Mandarin orange.

223223. 'Narangi'.

223224. 'Soh-niamtra'.

223225. 'Soh-siem'.

223226. CITRUS SINENSIS (L.) Osbeck

Sweet orange.

'Soh-niangriang'.

223227. CITRUS LATIPES (Swingle) Tanaka

'Soh-kymphorshrieh'.

223228. CITRUS KARNA Raf.

'Soh-sarkar'.

223229. CITRUS LATIPES (Swingle) Tanaka

'Soh-shrkhoit'.

223230 to 223304.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Maryland. Received Jan. 12, 1955.

223230 and 223231. AGROPYRON TRICHOPHORUM (Link) Richt. Poaceae.
Stiffhair wheatgrass.

223230. Col. No. 1079. Kalifgan, Kataghan. Sept. 17, 1954. Elevation, 1,500 m.

223231. Col. No. 1081. 'Jawak' 'Baghdak'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,730 m. Used as forage.

223232. AGROPYRON sp.

Col. No. 1109. Barak, Badakhshan. Sept. 20, 1954. Elevation 1,600 m. Perennial bunchgrass at edge of irrigation ditch. Used as cattle feed.

223233. AGROPYRON sp.

Col. No. 1130. 'Alef'. Kahash, Jurm. Badakhshan. Sept. 21, 1954. Elevation 2,200 m.

Forage crop.

223234. AGROPYRON ELONGATIFORME Drobov

Wheatgrass.

Col. No. 1132. 'Moi-khok'. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 2,200 m. Plants to 1.25 m. high.

223235. AGROPYRON CILIATIFLORUM Roshev.

Wheatgrass.

Col. No. 1237. Kataghan. Sept. 30, 1954. Elevation 2,200 m. Perennial bunchgrass; used as cattle feed.

223230 to 223304—Continued**223236. AGROPYRON sp.**

Col. No. 1247. Kataghan. Sept. 30, 1954. Elevation 3,300 m. Perennial bunchgrass.

223237. ANDROPOGON sp. Poaceae.

Col. No. 1362. 'Serbagah'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,230 m. Perennial bunchgrass.

223238. ANDROPOGON sp.

Col. No. 1363. 'Shinarai'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,230 m.

223239 and 223240. AGROSTIS ALBA L. Poaceae. Redtop.

223239. Col. No. 1108. Barak, Badakhshan. Sept. 20, 1954. Elevation 1,600 m. Perennial bunchgrass; used as cattle feed.

223240. Col. No. 1129. 'Balaghdah'. Khash, Jurm, Badakhshan. Sept. 21, 1954.

223241. AGROSTIS SEMIVERTICILLATA (Forsk.) C. Chr. Bentgrass.

Col. No. 1175. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,300 m. Perennial broad-leaved bunchgrass.

223242. AGROSTIS ALBA L. Redtop.

Col. No. 1238. Kataghan. Sept. 30, 1954. Elevation 2,100 m. Perennial pasture grass.

223243. ARISTIDA sp. Poaceae.

Col. No. 1059. Khairkhana Pass, 16 km. north of Kabul. Sept. 14, 1954. Elevation 2,000 m. Perennial bunchgrass.

223244. ARISTIDA sp.

Col. No. 1060. 'Kinak'. Kabul. Sept. 14, 1954. Elevation 1,700 m.

223245. ASTRAGALUS sp. Fabaceae.

Col. No. 1260. Kataghan. Oct. 1, 1954. Elevation 3,000 m. Plants about 1 m. high; well browsed.

223246. BROMUS STERILIS L. Poaceae. Poverty brome.

Col. No. 1173. 'Chem' or 'Alaf'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,300 m. Annual grass; used as a forage crop.

223247. CICER ARIETINUM L. Fabaceae. Chickpea.

Col. No. 1244. 'Nakhod'. Kataghan. Sept. 30, 1954. Elevation 2,100 m.

223248 and 223249. CYNODON DACTYLON (L.) Pers. Poaceae. Bermudagrass.

223248. Col. No. 1072. Khanabad River, Khanabad, Kataghan. Sept. 17, 1954. Elevation 1,100 m.

223249. Col. No. 1195. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m.

223250. DACTYLIS GLOMERATA L. Poaceae. Orchardgrass.

Col. No. 1196. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m.

223230 to 223304—Continued

223251. *DACTYLOCTENIUM AEGYPTIUM* (L.) Beauv. Poaceae.

Durban crowfootgrass.

Col. No. 1331. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 700 m. Perennial grass; eaten green or dry by cattle.

223252. *DIGITARIA SANGUINALIS* (L.) Scop. Poaceae.

Crabgrass.

Col. No. 1070. Khanabad, Kataghan. Sept. 17, 1954. Elevation 550 m. Perennial creepinggrass.

223253. *DIGITARIA* sp.

Col. No. 1149. 'Kabal'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 1,600 m. Perennial bunchgrass.

223254. *ECHINOCHLOA COARCTATA* (Stev.) Koss. Poaceae.

Col. No. 1066. 'Shamaq'. Doshi, Kataghan. Sept. 15, 1954. Elevation 1,000 m. Perennial bunchgrass; grain used as feed.

223255. *ELYMUS* sp. Poaceae.

Col. No. 1236. 'Saozkeh'. Kataghan. Sept. 30, 1954. Perennial bunchgrass.

223256. *ELYMUS* sp.

Col. No. 1248. Kataghan. Sept. 30, 1954. Elevation 2,200 m. Perennial bunchgrass.

223257. *ELYMUS* sp.

Col. No. 1249. Kataghan. Sept. 30, 1954. Elevation 2,300 m.

223258. *ELYMUS* sp.

Col. No. 1251. Kataghan. Sept. 30, 1954. Elevation 2,300 m. Perennial bunchgrass.

223259 and 223260. *ERAGROSTIS PILOSA* (L.) Beauv. Poaceae. **India lovegrass.**

223259. Col. No. 1235. 'Alef'. Farkharn, Kataghan. Sept. 29, 1954. Elevation 1,000 m. Perennial bunchgrass; a secondary forage plant.

223260. Col. No. 1326. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 750 m. Forage crop.

223261. *ERAGROSTIS* sp.

Col. No. 1328. Jalalabad. Oct. 13, 1954. Elevation 750 m. Perennial grass to 6 dm. high.

223262 and 223263. *ERAGROSTIS POAEOIDES* Beauv.

Lovegrass.

223262. Col. No. 1329. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 750 m. Perennial bunchgrass; used as forage.

223263. Col. No. 1365. 'Shinala'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,500 m. Small prostrate pasture grass.

223264. *GLYCYRRHIZA* sp. Fabaceae.

Col. No. 1085. Kishm, Badakhshan. Sept. 18, 1954. Growing on river bank.

223265. *HETEROPOGON* sp. Poaceae.

Col. No. 1363. 'Sabokai'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,200 m. Well grazed perennial bunchgrass.

223266. *HIBISCUS CANNABINUS* L. Malvaceae.

Kenaf.

Col. No. 1286. 'Kendor' or 'Sunn'. Khanabad, Kataghan. Oct. 3, 1954.

223267. *INCARVILLEA* sp. Bignoniaceae.

Col. No. 1202. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,300 m.

223268. *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.

Col. No. 1172. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,700 m. Annual grass on dry granitic slope.

223230 to 223304—Continued

- 223269.** *LATHYRUS CICERA* L. Fabaceae. **Flatpod peavine.**
Col. No. 1229. 'Pateque'. Kataghan. Sept. 29, 1954. Elevation 1,675 m. Green forage.
- 223270.** *LATHYRUS SATIVUS* L. **Grass peavine.**
Col. No. 1242. Kataghan. Sept. 30, 1954. Elevation 2,160 m. Used for making flour.
- 223271.** *LENS CULINARIS* Medic. Fabaceae. **Lentil.**
Col. No. 1096. 'Nesk' or 'Adas'. Market Faizabad, Badakhshan. Sept. 19, 1954.
- 223272.** *LOTUS CORNICULATUS* L. Fabaceae. **Birdsfoot trefoil.**
Col. No. 1076. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,500 m. Used for forage.
- 223273.** *ONOBRYCHIS* sp. Fabaceae.
Col. No. 1200. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m. Legume; pods spiny; well grazed.
- 223274.** *ORYZOPSIS CAERULESCENS* (Desf.) Hack. Poaceae.
Col. No. 1169. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,900 m. Annual grass, growing on dry granitic slope.
- 223275.** *PANICUM MILIACEUM* L. Poaceae. **Proso millet.**
Col. No. 1058. 'Arzan'. Kabul.
- 223276.** *PANICUM* sp.
Col. No. 1327. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 760 m. Perennial bunchgrass.
- 223277.** *PENNISETUM* sp. Poaceae.
Col. No. 1088. Kokcha River Valley, near Faizabad, Badakhshan. Sept. 18, 1954. Elevation 1,160 m. Perennial bunchgrass; used for forage.
- 223278.** *PENNISETUM FLACCIDUM* Griseb.
Col. No. 1171. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,591 m. Perennial bunchgrass on dry granitic slope.
- 223279.** *PENNISETUM* sp.
Col. No. 1364. 'Sogeiah'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,204 m. Well-grazed, perennial bunchgrass.
- 223280 to 223282.** *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**
- 223280.** Col. No. 1061. 'Mash'. Kabul. Sept. 14, 1954. Elevation 1,591 m. Used for forage.
- 223281.** Col. No. 1093. 'Mash'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 1,204 m.
- 223282.** Col. No. 1279. 'Mash'. Khanabad, Kataghan. Oct. 3, 1954. Elevation 602 m.
- 223283.** *PHLEUM MONTANUM* C. Koch. Poaceae. **Timothy.**
Col. No. 1197. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 1,807 m.
- 223284 and 223285.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
- 223284.** Col. No. 1203. 'Moshong'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.

223230 to 223304—Continued

- 223285.** Col. No. 1262. 'Moshong'. Kataghan. Oct. 1, 1954. Elevation 2,710 m.
- 223286.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**
Col. No. 1176. 'Alef'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,204 m. Early spring forage.
- 223287 and 223288.** *PROSOPIS STEPHANIANA* (Bieb.) Kunth Mimosaceae.
223287. Col. No. 1069. Dry loam plain, Kataghan. Sept. 16, 1954. Elevation 602 m.
223288. Col. No. 1291. Khanabad, Kataghan. Oct. 3, 1954. Elevation 602 m.
- 223289.** *RUMEX* sp. Polygonaceae.
Col. No. 1366. 'Tarook'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,386 m. Leaves cooked as an herb.
- 223290.** *SALVIA* sp. Menthaceae.
Col. No. 1131. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 2,020 m. Used as green forage.
- 223291.** *SETARIA ITALICA* (L.) Beauv. Poaceae. **Foxtail millet.**
Col. No. 1164. 'Gal'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 1,567 m.
- 223292.** *SETARIA* sp.
Col. No. 1083. 'Qonaq' or 'Gal'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,591 m.
- 223293 and 223294.** *SETARIA LUTESCENS* (Weigel) Hubb.
223293. Col. No. 1174. 'Alef'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,204 m. Short, perennial bunchgrass; used as summer forage.
223294. Col. No. 1332. Jalalabad. Oct. 13, 1954. Elevation 693 m. Perennial bunchgrass.
- 223295.** *STIPA* sp.
Col. No. 1198. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 1,807 m.
- 223296.** *STIPA* sp.
Col. No. 1294. Doabi, Kabul. Oct. 3, 1954. Elevation 2,020 m. Perennial bunchgrass.
- 223297.** *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**
Col. No. 1245. 'Shaftal'. Kataghan. Sept. 30, 1954. Elevation 1,959 m.
- 223298 to 223301.** *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**
223298. Col. No. 1095. 'Ghamo' or 'Shakhel'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 1,204 m. Boiled and ground into flour for bread; also used as cattle feed.
223299. Col. No. 1204. 'Shakel'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.
- 223300.** Col. No. 1241. 'Ghamo'. Kataghan. Sept. 30, 1954. Elevation 1,959 m. Boiled and ground into flour; also used as cattle feed.
- 223301.** Col. No. 1262. 'Ghamo'. Kataghan. Oct. 1, 1954. Elevation 2,710 m.
- 223302 to 223304.** *VICIA FABA* L. **Broadbean.**
223302. Col. No. 1097. 'Baqoli'. Market, Faizabad, Sept. 19, 1954. Elevation 1,204 m. Ground into flour.

223230 to 223304—Continued**223302 to 223304—Continued**

223303. Col. No. 1205. 'Baqoli'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.

223304. Col. No. 1231. 'Baqoli'. Kataghan. Sept. 29, 1954. Elevation 1,567 m.

223305 to 223316. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.**Tomato.**

From New York. Plants growing at the Regional Plant Introduction Station, Geneva. Numbered Jan. 14, 1955.

Localities given are original sources.

223305. 54-200. Ohio. 'Devons Surprise' × 'Marglobe'. Crack resistant.

223306. 54-218. Rhode Island. Late, flat, high color; crack resistant.

223307. 54-219. Rhode Island. 'Campbell Soup 222'. Crack resistant.

223308. 54-220. Rhode Island. 'Burgess Crack Proof'.

223309. 54-221. From O. H. Pearson. Flesh firm; pectin high, P723.

223310. 54-222. Rhode Island. P723 × 'Valiant' F₅. Fruit firm.

223311. 54-223. Rhode Island. P723 × 'Valiant' F₅. Fruit firm.

223312. 54-224. Rhode Island. CS222 × 'John Baer' F₁.

223313. 54-227. Rhode Island. Potato-leaf segregate; fruit, skin yellow.

223314. 54-228. Rhode Island. Stems light green; potato leaf; flesh pink.

223315. 54-230. Rhode Island. Stems purple; fruit pink, skin transparent.

223316. 54-238. Rhode Island. Plant large; fruit firm, uniform ripening.

223317 and 223318.

From Mexico. Seeds presented by the Instituto Botanico el Estado, Tuxtla Gutierrez, Chiapas. Received Jan. 17, 1955.

223317. *ZINNIA MULTIFLORA* L. Asteraceae.

Redstar zinnia.

223318. *ZINNIA* sp.

223319. *DIOSCOREA* sp. Dioscoreaceae.

From Bolivia. Tubers presented by the University of Cochabamba, Cochabamba. Received Jan. 17, 1955. Collected at San Ignacio, Province of Velasco, Department of Santa Cruz.

223320. *MELICOPE AWADAN* (Hatus.) Ohwi Rutaceae.

From Japan. Seeds presented by T. Saito, through the United States National Museum, Washington, D.C. Received Jan. 11, 1954. Numbered Jan. 18, 1955.

223321 to 223421.

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Corps Research Branch, Beltsville, Md. Received Jan. 19, 1955.

223321. *AEGILOPS OVATA* L. Poaceae.

Goatgrass.

Col. No. 1636. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet.

223322. *AGROPYRON REPENS* (L.) Beauv. Poaceae.

Quackgrass.

Col. No. 1559. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

223321 to 223421—Continued

- 223323.** *AGROPYRON SQUARROSUM* (Roth) Link **Wheatgrass.**
Col. No. 1641. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 10, 1954. Elevation 4,300 feet.
- 223324.** *HORDEUM MARINUM* Huds. Poaceae. **Barley.**
Col. No. 1678. Twenty miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.
- 223325.** *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**
Col. No. 1179. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.
- 223326 and 223327.** *ALLIUM CEPA* L. Liliaceae. **Onion.**
223326. Col. No. 1490. 'Piazcheh'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
223327. Col. No. 1539. 'Piaz'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Large type; color red or white.
- 223328.** *ALLIUM PORRUM* L. **Leek.**
Col. No. 1538. 'Tareh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Small green onion.
- 223329.** *AMMI COPTICUM* L. Apiaceae.
Col. No. 1483. 'Jaafari'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
- 223330.** *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**
Col. No. 1684. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet. Perennial bunchgrass; well grazed.
- 223331.** *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**
Col. No. 1541. 'Shebet'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
- 223332.** *APERA INTERRUPTA* (L.) Beauv. Poaceae.
Col. No. 1631. New road to Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,300 feet. Paniculate bunchgrass to 3 feet high.
- 223333.** *APIUM GRAVEOLENS* L. Apiaceae. **Celery.**
Col. No. 1481. 'Karafs'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
- 223334.** *FOENICULUM VULGARE* Mill. Apiaceae. **Fennel.**
Col. No. 1544. 'Karafs'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
- 223335.** *ASTRAGALUS* sp. Fabaceae.
Col. No. 1511. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.
- 223336.** *AVENA ABYSSINICA* Hochst. Poaceae. **Oats.**
Col. No. 1624. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.
- 223337.** *AVENA* sp.
Col. No. 1520. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.
- 223338.** *BETA LOMATOGONA* Fisch. & Mey. Chenopodiaceae. **Beet.**
Col. No. 1522. Namin, Ardabil. Nov. 8, 1954. Elevation 5,000 feet.
- 223339 and 223340.** *BETA VULGARIS* L. **Common Beet.**
223339. Col. No. 1487. 'Choghondari-Labou'. Market, Tabriz. Nov. 5, 1954.
223340. Col. No. 1737. Market, Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet.

223321 to 223421—Continued

- 223341.** *CHENOPODIUM CAPITATUM* (L.) Aschers. Chenopodiaceae.
Col. No. 1464. 'Hassbeh Daneh'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
- 223342 and 223343.** *BROMUS SQUARROSUS* L. Poaceae. **Brome.**
223342. Col. No. 1623. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.
223343. Col. No. 1630. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,800 feet.
- 223344.** *BROMUS DANTHONIAE* Trin. **Brome.**
Col. No. 1682. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.
- 223345.** *CANNABIS SATIVA* L. Moraceae. **Hemp.**
Col. No. 1548. 'Shah-Daneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
- 223346 and 223347.** *CICER ARIETINUM* L. Fabaceae. **Chickpea.**
223346. Col. No. 1526. 'Nakhoud-Siah'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
223347. Col. No. 1527. 'Nakhood'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
- 223348.** *CRYPISIS ALOPECUROIDES* (Pill. & Mitterp.) Schrad. Poaceae.
Col. No. 1629. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,000 feet.
- 223349 to 223351.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
223349. Col. No. 1694. 'Arpat Khoum'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Fruit elliptic, yellow; flesh sweet.
223350. Col. No. 1763. 'Mian Sabz'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet. Fruit elliptic; flesh yellowish.
223351. Col. No. 1766. 'Karbozeh'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.
- 223352.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**
Col. No. 1473. 'Kadoo'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Fruit small, elongate.
- 223353.** *CUCURBITA MAXIMA* Duchesne **Squash.**
Col. No. 1478. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Fruit pear-shaped, reddish, to 6 inches in diameter and 1 foot long.
- 223354.** *CUCURBITA PEPO* L. **Pumpkin.**
Col. No. 1589. 'Kadoo'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 400 feet.
- 223355.** *CUMINUM CYMINUM* L. Apiaceae. **Cumin.**
Col. No. 1485. 'Zirah'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
- 223356.** *CYDONIA OBLONGA* Mill. Malaceae. **Quince.**
Col. No. 1834. Market, Tehran. Grown in Esfahan. Nov. 23, 1954. Elevation 4,500 feet. Fruit 4 inches in diameter; flavor good.
- 223357.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
Col. No. 1632. New road to Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,300 feet.

223321 to 223421—Continued

- 223358 and 223359.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
223358. Col. No. 1560. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.
223359. Col. No. 1683. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.
- 223360 to 223362.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
223360. Col. No. 1482. 'Havij'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.
223361. Col. No. 1540. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
223362. Col. No. 1692. 'Hauy'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Roots large, greenish-yellow.
- 223363.** *DELPHINIUM* sp. Ranunculaceae.
 Col. No. 1583. Thirty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,700 feet. On dry roadside; flowers blue.
- 223364.** *DESCHAMPSIA CAESPITOSA* L. Poaceae. **Tufted hair-grass.**
 Col. No. 1564. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.
- 223365.** *ECHINOCHLOA CRUSGALLI* (L.) Beauv. Poaceae. **Barnyard grass.**
 Col. No. 1586. Eight miles north of Fork on the new road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,300 feet.
- 223366.** *ELYMUS CRINITUS* Schreb. Poaceae. **Wildrye.**
 Col. No. 1635. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet.
- 223367.** *ERAGROSTIS POAEOIDES* Beauv. Poaceae. **Lovegrass.**
 Col. No. 1574. Astara, Azerbaijan. Nov. 8, 1954. Small pasture grass.
- 223368.** *ERAGROSTIS PILOSA* (L.) Beauv. **Lovegrass.**
 Col. No. 1625. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet. Perennial bunchgrass.
- 223369.** *FESTUCA* sp. Poaceae.
 Col. No. 1510. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet. Perennial grass.
- 223370.** *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**
 Col. No. 1551. 'Aftab'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.
- 223371.** *ELYMUS FRAGILIS* (Boiss.) Griseb. Poaceae. **Wildrye.**
 Col. No. 1627. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.
- 223372.** *HORDEUM LEPORINUM* Link Poaceae. **Barley.**
 Col. No. 1637. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet. Wild, to 4 feet high.
- 223373.** *HORDEUM MURINUM* L. **Barley.**
 Col. No. 1626. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.
- 223374.** *HORDEUM* sp.
 Col. No. 1508. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.

223321 to 223421—Continued**223375.** HORDEUM sp.

Col. No. 1517. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

223376 and 223377. HORDEUM VULGARE L.**Barley.****223376.** Col. No. 1588. Moghan Steppes, Azerbaijan, Nov. 10, 1954. Elevation 400 feet.**223377.** Col. No. 1677. 'Afshar Jow'. Tabriz, Azerbaijan. Nov. 13, 1954. Elevation 4,000 feet.**223378.** KOELERIA sp. Poaceae.

Col. No. 1577. Twenty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 4,500 feet. Perennial grass on dry rocky slope.

223379 and 223380. LACTUCA SATIVA L. Cichoriaceae.**Garden lettuce.****223379.** Col. No. 1550. 'Kahou'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223380.** Col. No. 1760. 'Kahou'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.**223381 to 223383.** LENS CULINARIS Medic. Fabaceae.**Lentil.****223381.** Col. No. 1532. 'Adas'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223382.** Col. No. 1553. 'Adas Dorosbt'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223383.** Col. No. 1693. 'Adas'. Market, Khoy, Azerbaijan. Nov. 15, 1954.**223384.** LINUM USITATISSIMUM L. Linaceae.**Flax.**

Col. No. 1689. 'Razrak'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Seeds used for oil.

223385. LOLIUM PERENNE L. Poaceae.**Ryegrass.**

Col. No. 1628. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

223386 to 223388. MEDICAGO SATIVA L. Fabaceae.**Alfalfa.****223386.** Col. No. 1506. 'Yonjeh'. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.**223387.** Col. No. 1529. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223388.** Col. No. 1634. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,600 feet.**223389.** ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae.**Sainfoin.**

Col. No. 1530. 'Esperess'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Forage legume, planted every four years.

223390. ORNITHOPUS sp. Fabaceae.

Col. No. 1638. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 10, 1954. Elevation 4,000 feet.

223391. PANICUM MILIACEUM L. Poaceae.**Proso millet.**

Col. No. 1554. 'Arzan'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223392 to 223394. PAPAVER SOMNIFERUM L. Papaveraceae.**Opium poppy.****223392.** Col. No. 1486. 'Khash-Khash'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.**223393.** Col. No. 1739. 'Khash-Khash'. Market, Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet.

223321 to 223421—Continued**223392 to 223394—Continued**

223394. Col. No. 1757. 'Khash-Khash'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

223395. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.

Col. No. 1543. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223396 to 223398. *PHALARIS CANARIENSIS* L. Poaceae. Canarygrass.

223396. Col. No. 1493. 'Katan'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

223397. Col. No. 1553. 'Danesh-Ghanari'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223398. Col. No. 1761. 'Bazrak'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

223399 and 223400. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.

223399. Col. No. 1502. 'Lobia'. Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

223400. Col. No. 1525. 'Lobia'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223401. *PHLEUM IRANICUM* Bornm. & Gaub. Poaceae. Timothy.

Col. No. 1576. Twenty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 4,500 feet. Small grass on dry rocky slope.

223402. *POA BULBOSA* L. Poaceae. Bulbous bluegrass.

Col. No. 1680. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.

223403. *POA* sp.

Col. No. 1788. Twenty-four miles west of Hamedan, road to Kermanshah. Nov. 18, 1954. Elevation 7,500 feet. Fine-leaved perennial.

223404. *POLYPOGON MONSPELIENSIS* (L.) Desf. Poaceae.

Col. No. 1743. Rezaiyeh Shore, 26 miles south of Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet. Salt tolerant.

223405. *PUCCINELLIA* sp. Poaceae.

Col. No. 1681. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet. Perennial bunchgrass; well grazed.

223406 and 223407. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

223406. Col. No. 1495. 'Torob-i-Sefid'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Roots white.

223407. Col. No. 1691. 'Torob-Sefid'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Roots large, white.

223408 and 223409. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

223408. Col. No. 1547. 'Karchak'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223409. Col. No. 1762. 'Karchak'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

223410. *SECALE CEREALE* L. Poaceae. Rye.

Col. No. 1516. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

223411 to 223413. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

223411. Col. No. 1545. 'Konjet'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223321 to 223421—Continued**223411 to 223413—Continued**

223412. Col. No. 1688. 'Konjet'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.

223413. Col. No. 1765. 'Konjet'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

223414. *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 1584. Thirty-six miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,500 feet.

223415. *TRIFOLIUM HYBRIDUM* L. Fabaceae.

Alsike clover.

Col. No. 1504. 'Shabdar'. Road from Tabriz to Sarab, 16 miles east of Tabriz, Azerbaijan.

223416. *TRIFOLIUM PRATENSE* L.

Red clover.

Col. No. 1503. 'Shabdar'. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet. Flowers reddish white.

223417. *VICIA ERVILIA* (L.) Willd. Fabaceae.

Bitter vetch.

Col. No. 1531. 'Gavdaneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Seeds fed to cattle.

223418. *VICIA FABA* L.

Broadbean.

Col. No. 1528. 'Baghlayeh Maamooli'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 500 feet.

223419. *VICIA SATIVA* L.

Common vetch.

Col. No. 1536. 'Gharadaneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Seeds used as stock feed.

223420. *VIGNA SINENSIS* (Torner) Savi. Fabaceae.

Common cowpea.

Col. No. 1524. 'Lobia'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

223421. (Undetermined.)

Col. No. 1612. 'Marzeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 400 feet. Leaves used as greens.

223422. *LABURNUM ALPINUM* (Mill.) Berchtold Fabaceae.

Scotch laburnum.

From Sweden. Seeds presented by the Botanic Garden, Stockholm. Received Jan. 19, 1955.

223423. *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae.

Yellow sweetclover.

From Canada. Seeds presented by the Experimental Farm, Brandon, Manitoba. Received Jan. 20, 1955.

'Erector'.

223424 to 223430.

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Introduction, Zemun. Received Jan. 20, 1955.

223424 and 223425. *HORDEUM VULGARE* L. Poaceae.

Barley.

223424. 'Vindicat'.

223425. 'Zemun'.

223426 to 223430. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

223426. 'Kruzevoe'.

223429. 'Puza 12'.

223427. 'Kuron'

223430. 'Puza 80-5'.

223428. 'Punjab 21'.

223431 to 223474.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Feb. 4, 1955.

223431. *ALLIUM CEPA* L. Liliaceae. **Onion.**

Col. No. 1184. 'Piaz'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 4,000 feet.

223432. *AVENA SATIVA* L. Poaceae. **Common oats.**

Col. No. 1124. 'Lass'. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet.

223433. *CICER ARIETINUM* L. Fabaceae. **Chickpea.**

Col. No. 1094. 'Nakhod'. Market, Faizabad, Badakhshan. Sept. 19, 1954.

223434 to 223436. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

223434. Col. No. 1086. 'Kharbozeh'. Kisham, Badakhshan, Sept. 18, 1954. Elevation 3,300 feet. Fruit oval, yellow; flesh yellowish white; flavor sweet.

223435. Col. No. 1100. 'Kharbozeh'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet. Fruit oval, green; flesh whitish yellow, sweet.

223436. Col. No. 1155. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruit oval, green; flesh green.

223437. *CUCUMIS SATIVUS* L. **Cucumber.**

Col. No. 1099. 'Badreng' or 'Khair'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 400 feet.

223438. *CUCURBITA MAXIMA* Duchesne Cucurbitaceae. **Squash.**

Col. No. 1153. 'Kadoo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

223439. *ERIANTHUS* sp. Poaceae.

Col. No. 1339. 'Monj'. Laghman, Eastern Province. Oct. 13, 1954. Elevation 3,000 feet. Large perennial bunchgrass growing to a height of 5 feet.

223440. *FORTUYNIA* sp. Brassicaceae.

Col. No. 163. Near Dilaram, Girishk, May 25, 1954. Elevation 2,800 feet. Desert plant; stems green; leaves gray green, semisucculent; sometimes grazed.

223441. *GOSSYPIUM* sp. Malvaceae.

Col. No. 1269. Taliq-An, Kataghan. Oct. 2, 1954. Elevation 3,000 feet. From the U.S.S.R.

223442. *GOSSYPIUM* sp.

Col. No. 1278. Khanabad, Kataghan. Oct. 3, 1954. Elevation 2,000 feet. From the U.S.S.R.

223443. *GOSSYPIUM* sp.

Col. No. 1319. 'Ponbeh'. Jalalabad. Oct. 12, 1954. Elevation 2,300 feet.

223444. *HORDEUM* sp. Poaceae.

Col. No. 1074. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Perennial bunch grass, well grazed.

223445 to 223450. *HORDEUM VULGARE* L. **Barley.**

223445. Col. No. 1077. 'Jow'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Non-irrigated type, planted in winter.

223446. Col. No. 1090. 'Jow'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet.

223447. Col. No. 1106. 'Jow'. Barak, Badakhshan. Sept. 20, 1954. Elevation 5,000 feet.

223341 to 223474—Continued**223445 to 223450—Continued**

223448. Col. No. 1135. 'Jow'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

223449. Col. No. 1138. 'Jow'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

223450. Col. No. 1216. 'Jow-i-Lalmi'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet. Dryland type.

223451. *LENS CULINARIS* Medic. Fabaceae. **Lentil.**
Col. No. 1208. 'Adas'. Yakatal, Badakhshan. Sept. 26, 1954. Elevation 6,000 feet.

223452 and 223453. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

223452. Col. No. 1159. 'Zegher'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 5,200 feet.

223453. Col. No. 1209. 'Zegher'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet.

223454. *MALUS* sp. Malaceae.

Col. No. 1212. 'Saib'. Takatal, Badakhshan. Sept. 27, 1954. Elevation 6,500 feet. Wild type; tree to 30 feet high. Fruit to 2 inches in diameter; flavor good.

223455. *MALUS* sp.

Col. No. 1213. 'Saib'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,500 feet. Wild type; tree to 25 feet high; fruits to 2 inches in diameter; flavor good.

223456 and 223457. *ORYZA SATIVA* L. Poaceae. **Rice.**

223456. Col. No. 1071. 'Berenj-i-Mahin'. Khanabad, Kataghan. Sept. 17, 1954.

223457. Col. No. 1150. 'Bereng-i-Luk'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

223458 and 223459. *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**

223458. Col. No. 1115. 'Khash-Khash'. Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet. This area produces the most opium per acre in Afghanistan.

223459. Col. No. 1154. 'Khash-Khash'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

223460. *PRUNUS AMYGDALUS* Batsch Amygdalaceae. **Almond.**

Col. No. 1168. Juniper Slope, Barak, Badakhshan. Sept. 23, 1954. Elevation 6,200 feet.

223461. *PRUNUS AVIUM* L. **Sweet cherry.**

Col. No. 1139. 'Aloubaloo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruits sour, black; dried for winter use.

223462. *PRUNUS PERSICA* (L.) Batsch **Peach.**

Col. No. 1142. 'Shaftaloo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruit large; flavor good.

223463. *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**

Col. No. 1056. Above the Helmand River, Hazarjat, Kabul. Sept. 1, 1954. Elevation 8,000 feet.

223464. *SACCHARUM* sp. Poaceae.

Col. No. 1220. Fifteen miles from Faizabad, Badakhshan. Sept. 28, 1954. Elevation 3,700 feet.

223341 to 223474—Continued

223465 to 223473. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

- 223465.** Col. No. 1078. 'Gandom'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Nonirrigated winter type.
- 223466.** Col. No. 1091. 'Gandom-i-Safadek'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet. Nonirrigated, spring type.
- 223467.** Col. No. 1092. 'Gandom-i-Sorkheh'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Red grain.
- 223468.** Col. No. 1107. 'Gandom-i-Sorkheh' Barak, Badakhshan. Sept. 20, 1954. Elevation 5,000 feet. Red type; nonirrigated.
- 223469.** Col. No. 1119. Gandom-i-Lami. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet. Dryland type.
- 223470.** Col. No. 1136. 'Gandom'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Nonirrigated, spring type.
- 223471.** Col. No. 1163. 'Gandom-i-Abi'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 5,200 feet. Irrigated fall type.
- 223472.** Col. No. 1215. 'Gandom'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet. Dryland type.
- 223473.** Col. No. 1227. 'Gandom-i-Lallmi'. Kishma, Badakhshan. Sept. 28, 1954. Elevation 3,000 feet. Nonirrigated spring type.

223474. (Undetermined.) Menthaceae.

Col. No. 1252. Kataghan. Sept. 30, 1954. Elevation 7,000 feet. Plants to 3 feet high; well browsed.

223475 to 223479. PRUNUS AMYGDALUS Batsch Amygdalaceae.

Almond.

From Greece. Budwood presented by the University of Thessaloniki, Thessaloniki. Received Jan. 21, 1955.

- 223475.** 'Symmetrike'. Tree strong, symmetrical; soft-shell variety, 51 percent kernel content.
- 223476.** 'Retsos'. Soft-shell variety with 48 percent kernel content.
- 223477.** 'Trusito'. Tree strong; good habit; hard-shell variety of Italian origin with 22 percent kernel content.
- 223478.** 'Princesse'. Tree medium strong, pendulous; semisoft shell variety of Italian origin with 34.8 percent kernel content.
- 223479.** 'Dolce a Guscio Tenero'. Tree symmetrical; soft-shell variety of Italian origin with 54 percent of kernel content; susceptible to Monilia.

223480 and 223481. MELILOTUS ALBA Desr. Fabaceae.

White sweetclover.

From Canada. Seeds presented by the Dominion Forage Corps Laboratory, University of Saskatchewan, Saskatoon. Received Jan. 24, 1955.

- 223480.** 'Alpha'.
- 223481.** 'Arctic'.

223482 to 223489. ORYZA SATIVA L. Poaceae.

Rice.

From Argentina. Seeds presented by the Estacion Experimental de Arroz, Eva Peron. Received Jan. 24, 1955.

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| 223482. 'Chacarero' F.A. | 223486. 'Precoz' 2 F.A. |
| 223483. 'Japones Gigante'. | 223487. 'Victoria' F.A. |
| 223484. 'Japonesito' de 3 messes. Sel. F.A. | 223488. 'Victoria Tardio' F.A. Sel. 2. |
| 223485. 'Precosur' 1 F.A. | 223489. 'Yamani'. |

- 223490.** *ORYZA SATIVA* L. Poaceae. **Rice.**
From Guatemala. Seeds presented by E. C. Tullis, United States Department of Defense. Received Jan. 24, 1955.
- 223491 to 223495.** *ORYZA SATIVA* L. Poaceae **Rice.**
From India. Seeds presented by the Central Rice Research Institute, Orissa. Received Jan. 24, 1955.
223491. 'Eichengeri' G. S. No. 435. 223494. C. 10. G. S. No. 11.
223492. 'Latifolia' G. S. No. 436. 223495. 1460. G. S. No. 399.
223493. 'Officinalis' G. S. No. 439.
- 223496 to 223550.**
From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Jan. 24, 1955.
- Collected in Eastern Province, September and October, 1954.
- 223496.** *AELUROPUS LITTORALIS* (Gouan) Parl. Poaceae.
Col. No. 1087. Kokcha River valley, near Kishma, Badakhshan. Elevation 2,700 feet. Dryland grass on sandstone slope.
- 223497.** *AGROPYRON* sp. Poaceae.
Col. No. 1201. Trail to Yakatal, Badakhshan. Elevation 6,500 feet.
- 223498.** *ALLIUM CEPA* L. Liliaceae. **Onion.**
Col. No. 1296. 'Piaz'. Jalalabad. Elevation 2,300 feet.
- 223499 to 223501.** *BRASSICA RAPA* L. Brassicaceae. **Turnip.**
223499. Col. No. 1297. 'Shalghem'. Jalalabad. Elevation 2,300 feet.
223500. Col. No. 1368. 'Shalghem-i-Zard'. Kunar.
223501. Col. No. 1376. 'Shalghem'. Kunar. Elevation 3,000 feet.
- 223502.** *BRASSICA* sp.
Col. No. 1298. 'Sharsham'. Jalalabad. Elevation 2,300 feet. Oilseed.
- 223503.** *BRASSICA* sp.
Col. No. 1308. 'Owri'. Jalalabad. Elevation 2,300 feet.
- 223504.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
Col. No. 1299. 'Zerde'. Jalalabad. Elevation 2,300 feet.
- 223505.** *DIOSPYROS* sp. Diospyraceae.
Col. No. 1361. 'Ahlook'. Kunar. Elevation 3,000 feet. Fruit yellow, to 1 inch in diameter.
- 223506 and 223507.** *HIBISCUS CANNABINUS* L. Malvaceae. **Kenaf.**
223506. Col. No. 1334. 'Sund'. Jalalabad. Elevation 2,300 feet.
223507. Col. No. 1357. 'Sund'. Kunar. Elevation 3,000 feet.
- 223508 to 223510.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
223508. Col. No. 1371. 'Jow'. Kunar. Elevation 3,000 feet. Fall grain.
223509. Col. No. 1318. 'Jow'. Jalalabad. Elevation 2,300 feet.
223510. Col. No. 1350. 'Jow'. Alingar. Elevation 3,500 feet.
- 223511.** *JUGLANS REGIA* L. Juglandaceae. **Persian walnut.**
Col. No. 1356. Alingar. Elevation 3,500 feet. Wild type from hills around Alingar.
- 223512 to 223518.** *ORYZA SATIVA* L. Poaceae. **Rice.**
223512. Col. No. 1323. 'Shali-i-Mahin'. Jalalabad. Elevation 2,300 feet.

223496 to 223550—Continued

223512 to 223518—Continued

223513. Col. No. 1340. 'Shali-i-Luk'. Laghman.
223514. Col. No. 1341. 'Shali-i-Mahin'. Laghman. Elevation 2,500 feet.
223515. Col. No. 1351. 'Shal-i-Luk'. Alingar. Elevation 3,500 feet.
223516. Col. No. 1352. 'Shali-i-Mahin'. Alingar. Elevation 3,500 feet.
223517. Col. No. 1372. 'Shali-i-Mahin'. Kunar. Elevation 3,000 feet.
223518. Col. No. 1373. 'Shali-i-Luk'. Kunar. Elevation 3,000 feet.
223519. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**
Col. No. 1304. 'Zegher'. Jalalabad. Elevation 2,300 feet. Furnishes an edible oil.
223520. *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**
Col. No. 1300. 'Khash-Khash'. Jalalabad. Elevation 2,300 feet.
223521. *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. **Moth bean.**
Col. No. 1344. 'Mote'. Laghman. Elevation 2,600 feet. Used as green and dried forage.
- 223522 and 223523. *PHASEOLUS AUREUS* Roxb. **Mung bean.**
223522. Col. No. 1311. 'Mash'. Jalalabad. Elevation 2,300 feet.
223523. Col. No. 1353. 'Mash'. Alingar.
223524. *PHASEOLUS MUNGO* L. **Urd.**
Col. No. 1316. 'Mai'. Jalalabad. Elevation 2,300 feet.
223525. *PHASEOLUS VULGARIS* L. **Common bean.**
Col. No. 1317. 'Lobia-i-Sorkh'. Jalalabad. Elevation 2,300 feet. Red.
- 223526 and 223527. *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
223526. Col. No. 1355. 'Moshong'. Alingar. Elevation 3,500 feet.
223527. Col. No. 1369. 'Lobia'. Kunar.
223528. *PUNICA GRANATUM* L. Punicaceae. **Pomegranate.**
Col. No. 1384. 'Anar'. Market, Kabul.
223529. *QUERCUS* sp. Fabaceae.
Col. No. 1382. 'Baloot'. Market, Kabul. Grown near Gardez.
- 223530 and 223531. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
223530. Col. No. 1309. 'Moli'. Jalalabad. Elevation 2,300 feet.
223531. Col. No. 1374. 'Moli'. Kunar. Elevation 3,000 feet.
223532. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
Col. No. 1312. 'Konjed'. Jalalabad. Elevation 2,300 feet. Oilseed.
223533. *SETARIA ITALICA* (L.) Beauv. Poaceae. **Foxtail millet.**
Col. No. 1305. 'Gal'. Jalalabad. Elevation 2,300 feet.
223534. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
Col. No. 1302. 'Badinjan-i-Siah'. Jalalabad. Elevation 2,300 feet.
223535. *SORGHUM VULGARE* Pers. Poaceae. •
Col. No. 1335. 'Bajerah'. Jalalabad. Elevation 2,300 feet.
223536. *SPINACEA OLERACEA* L. Chenopodiaceae. **Common spinach.**
Col. No. 1313. 'Palek'. Jalalabad. Elevation 2,300 feet.
- 223537 to 223539. *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

223496 to 223550—Continued**223537 to 223539—Continued**

223537. Col. No. 1310. 'Shaftal'. Jalalabad. Elevation 2,300 feet.

223538. Col. No. 1346. 'Shaftal'. Alingar. Elevation 3,500 feet.

223539. Col. No. 1370. 'Shaftal'. Kunar. Elevation 3,000 feet.

223540 to 223546. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

223540. Col. No. 1322. 'Gandom-i-Lalmi'. Jalalabad. Elevation 2,300 feet. Nonirrigated type.

223541. Col. No. 1325. 'Gandom-i-Abi'. Jalalabad. Elevation 2,300 feet. Irrigated type.

223542. Col. No. 1348. 'Gandom-i-Sorkh'. Alingar. Elevation 3,500 feet. Irrigated red type.

223543. Col. No. 1349. 'Gandom-i-Safade'. Alingar. Elevation 3,500 feet. Irrigated white type.

223544. Col. No. 1377. 'Gandom-i-Lalmi'. Kunar. Elevation 3,000 feet. Nonirrigated type.

223545. Col. No. 1378. 'Gandom-i-Morcheh'. Kunar. Winter type. Elevation 3,000 feet.

223546. Col. No. 1379. 'Gandom-i-Lalmi'. Kunar. Elevation 3,000 feet. Nonirrigated type; from the Pakistan-Afghanistan border.

223547. VICIA ERVILLA (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 1354. 'Shakhel'. Alingar. Elevation 3,500 feet.

223548. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 1315. 'Lobia-i-Khord'. Jalalabad. Elevation 2,300 feet.

223549 and 223550. ZEA MAYS L. Poaceae. **Corn.**

223549. Col. No. 1347. 'Jawari'. Alingar. Elevation 3,500 feet. White grain.

223550. Col. No. 1375. 'Jawari'. Kunar. Elevation 3,000 feet.

223551 and 223552. CAPSICUM FRUTESCENS L. Solanaceae.**Redpepper.**

From Argentina. Seeds presented by the Universidad Nacional de Cuyo Espepo, Mendoza. Received Jan. 24, 1955.

223551. 'Nora de Murcia'.

223552. 'Pimentero'.

223553. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae. **Sainfoin.**

From Turkey. Seeds presented by the Director General of the Turkish State Seed Increase Farms, Ankara.

Received Jan. 26, 1955.

223554 to 223562. ORYZA SATIVA L. Poaceae**Rice.**

From the Philippines. Seeds presented by the University of the Philippines, College of Agriculture, Laguna. Received Jan. 26, 1955.

223554. 'Azucena'.

223559. 'Mangarez'.

223555. 'Binicol'.

223560. 'Milfor 6'.

223556. 'Binirhen'.

223561. 'Moratuto'.

223557. 'Dourado Aqulha'.

223562. 'Pinulot'.

223558. 'Kinandang Nagpulot'.

223563 to 223566. MUSA TEXTILIS Nee. Musaceae. Abaca banana.

From Indonesia. Crowns presented by the Handelsvereening "Amsterdam," Medan. Received Jan. 27, 1955.

223563. 'Jholo'. 223565. 'Jholo Itam'. (black)

223564. 'Jholo Hybrides'. 223566. 'Jholo merah'. (red)

223567. VITIS VINIFERA L. Vitaceae. European grape.

From France. Cuttings presented by the Section de Selection et de Controle des Bois et Plants de Vigne. St. Jeannet, Alpes Maritimes.

'Saint Jeannet-Tardif'.

223568 to 223575.

From Peru. Seeds presented by the United States Operations Mission to Peru, Lima. Received Jan. 3, 1955.

223568. *LOLIUM MULTIFLORUM* Lam. Poaceae. Ryegrass.

From Cajamarca. Elevation 7,000 feet.

223569 to 223575. *ORYZA SATIVA* L. Poaceae. Rice.

From Lambayeque Experiment Station, Lambayeque.

223569. 'Lambayeque' No. 1. 223573. 'Minabir' No. 3.

223570. 'Lambayeque' No. 2. 223574. 'Minabir' No. 4.

223571. 'Minabir' No. 1. 223575. 'Minagra' No. 1.

223572. 'Minabir' No. 2.

223576 to 223578. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Germany. Seeds presented by the Research Institute, Gatersleben, Russian Zone. Received Jan. 31, 1955.

223576. 'K193 D/52'.

223577. 'K193 F/52'.

223578. 'K193 H/52'.

223579 to 223581.

From Germany. Seeds presented by the Max-Planck Institute, Voldagsen. Received Jan. 31, 1955.

223579. *ANTIRRHINUM* sp. Scrophulariaceae.

223580. *ANTIRRHINUM* sp.

223581. *ANTIRRHINUM SICULUM* Mill.

'Ernte S-45'.

223582 to 223588.

From Great Britain. Cuttings presented by the Royal Botanic Gardens, Kew, England. Received Jan. 31, 1955.

223582. *RUBUS FLOSCULOSUS* Focke Rosaceae.

223583. *RUBUS PEDUNCULOSUS* Don

223584. *RUBUS GIRALDIANUS* Focke

223585. *RUBUS INNOMINATUS* var. *KUNTZEANUS* (Focke) Bailey

223586. *RUBUS COREANUS* Miquel. Korean raspberry.

223587. *RUBUS LASIOSTYLUS* Focke Woolly raspberry.

223588. *RUBUS THIBETANUS* Franch.

223589 and 223590.

From the British West Indies. Seeds presented by the Plant Protection Officer, Department of Agriculture, Kingston, Jamaica. Received Jan. 31, 1955.

223589. *DESMODIUM AXILLARE* (Sw.) DC. Fabaceae. **Tickclover.**

223590. *DESMODIUM SALICIFOLIUM* (Poir. ex Lam.) DC. **Tickclover.**

223591 to 223593.

From Brazil. Seeds presented by the Horto Florestal de Paraopeba, Belo Horizonte, Minas Gerais. Received Feb. 1, 1955.

223591. *PIPTADENIA MACROCARPA* Benth. Mimosaceae.

223592. *PIPTADENIA PANICULATA* Benth.

223593. *PIPTADENIA PEREGRINA* (L.) Benth.

223594 to 223599.

From Great Britain. Seeds presented by the Department of Botany, Royal Botanic Garden, Edinburgh, Scotland. Received Feb. 3, 1955.

223594. *RUBUS FLOSCULOSUS* Focke Rosaceae.

223595. *RUBUS GIRALDIANUS* Focke

223596. *RUBUS INOPERTUS* Focke

223597. *RUBUS PEDUNCULOSUS* Don

223598. *RUBUS THIBETANUS* Franch.

223599. *RUBUS COREANUS* Miquel. **Korean raspberry.**

223600. *LABURNUM ALPINUM* (Mill.) Berch. & Presl Fabaceae.
Scotch laburnum.

From Denmark. Seeds presented by the University Botanic Garden, Copenhagen. Received Feb. 3, 1955.

223601. *RAUVOLFIA SERPENTINA* Benth. Apocynaceae.
Java devilpepper.

From China. Seeds presented by Eli Lilly & Co., Indianapolis, Indiana. Received Feb. 3, 1955.

223602 to 223604.

From Japan. Cuttings presented by the Horticultural Experiment Station, Shinobagun, Fukushima-ken. Received Feb. 4, 1955.

223602. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**
'Mutsu'.

223603. *PRUNUS DOMESTICA* L. Amygdalaceae. **Common plum.**
'Ohishi-Wase'.

223604. *PYRUS COMMUNIS* L. Malaceae. **Pear.**
'Nizisseiki'.

223605. *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

From New Zealand. Seeds presented by Arthur Yates & Co., Limited, Auckland. Received Feb. 4, 1955.

223606 and 223607. *ZEA MAYS* L. Poaceae. **Corn.**

From Nicaragua. Seeds presented by the Departamento Agronomica, Managua. Received Feb. 4, 1955.

223606. P.D. (M.S.) 6.

223607. 'Venezuela 3'.

223608. RUBUS LASIOSTYLUS Focke Rosaceae. Woolly raspberry.

From Great Britain. Plants presented by the Royal Botanic Garden, Edinburgh, Scotland. Received Feb. 7, 1955.

223609 and 223610.

From the Anglo-Egyptian Sudan. Seeds presented by the Research Division, Ministry of Agriculture, Wad Medani. Received Feb. 7, 1955.

223609. COFFEA CANEPHORA Pierre ex Froehn. Rubiaceae. **Coffee.**

223610. COFFEA EXCELSA Cheval. **Congo coffee.**

223611. COFFEA BENGALENSIS Roxb. Rubiaceae. Coffee.

From India. Seeds presented by G. Ghose & Company, Towend, Darjeeling. Received Feb. 7, 1955.

223612. ORYZA SATIVA L. POACEAE. Rice.

From Uruguay. Seeds presented by S. A. Malinos, Arroceros Nacionales, Montevideo. Received Feb. 8, 1955.

Selection No. 388 (Rough).

223613 to 223632.

From Great Britain. Seeds presented by the Royal Horticultural Society Gardens, Wisley, Ripley, Surrey, England. Received Feb. 8, 1955.

223613. PAEONIA VEITCHII Lynch. Ranunculaceae. **Peony.**

223614. PIERIS TAIWANENSIS Hayata. Ericaceae.

223615. PODOPHYLLUM EMODI Wall. ex Hook. f. & Thoms. Berberidaceae. **Himalayan mayapple.**

223616. PRIMULA ALPICOLA (W. W. Smith) Stapf Primulaceae. **Alpine primrose.**

223617. PRIMULA ALPICOLA var. VIOLACEA Stapf **Primrose.**

223618. PRIMULA AURANTIACA W. W. Smith **Orange primrose.**

223619. PRIMULA AURICULA L. **Auricula primrose.**

223620. PRIMULA BULLEYANA Forrest **Bulleys primrose.**

223621. PRIMULA CAPITATA Hook. **Purplehead primrose.**

223622. PRIMULA CHUNGENSIS Balf. & Ward **Yellowsweet primrose.**

223623. PRIMULA DENTICULATA J. E. Smith **Himalayan primrose.**

223624 and 223625. PRIMULA FLORINDAE K. Ward **Tibetan primrose.**

223624. (No data.)

223625. Red form.

223626. PRIMULA HELODOXA Balf. **Amber primrose.**

223627. PRIMULA HEUCHERIFOLIA Franch. **Primrose.**

223628. PRIMULA JAPONICA A. Gray **Japanese primrose.**

223629. PRIMULA NUTANS Delav. ex Franch. **Sleepy primrose.**

223630. PRIMULA PROLIFERA Wall. **Primrose.**

223531 and 223632. PRIMULA PULVERULENTA Duthie **Silverdust primrose.**

223631. (No data.)

223632. Bartley strain.

223633 and 223634.

From Portugal. Seeds presented by Jose dos Santos Ruivo Matafome, Alvega. Received Feb. 9, 1955.

223633. ORNITHOPUS SATIVUS Brot. Fabaceae. **Serradella.**

223634. VICIA FABA L. Fabaceae. **Broadbean.**

223635. *VIGNA SESQUIPEDALIS* (L.) Fruhwirth Fabaceae.

Yardlong cowpea.

From Australia. Seeds collected by Gerald L. Smith, University of New Hampshire, Durham, N. H. Numbered Feb. 9, 1955.

223636 to 223641.

From Iran. Seeds presented by the United States Operations Mission to Iran, Tehran.

223636 to 223638. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

From a market; grown at Astara. August, 1954.

223636. No. 1. Flesh yellow, crisp, sweet.

223637. No. 2. Fruit round, yellow with green stripes; flesh light cream; sweet.

223638. No. 3. Fruit round, yellow; flesh light cream, crisp; very sweet.

223639. *ROSA* sp. Rosaceae.

No. 1. Northwest of Shahrud, in Gorgan area. September 1954.

223640. *ROSA* sp.

No. 2. Near Gorgan, southeast of the Caspian Sea.

223641. *ROSA* sp.

No. 3. Caspian Sea region, near Rasht.

223642. *CITRUS GRANDIS* (L.) Osbeck Rutaceae.

Pummelo.

From French Oceania. Budwood presented by the Service d'Agriculture Experimental, Papeete, Tahiti. Received Feb. 10, 1955.

'Sarawak'

223643 to 223657.

From France. Plants and budwood presented by the Georges Delbard Nurseries, Malicorne, Paris. Received Feb. 10, 1955.

223643 to 223646. Plants.

223643. *RUBUS* sp. Rosaceae.

'Heytor'.

223644. *RUBUS* sp.

'La France'.

223645. *RUBUS* sp.

'Perpetuelle de Billard'.

223646. *RUBUS* sp.

'Souvenir de Degire Bruncan'.

223647 to 223657. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

Budwood.

223647. 'Bergeron'.

223653. 'Poizat'.

223648. 'Blanc Rose'.

223654. 'Precoce de Boulbon'.

223649. 'Bulida'.

223655. 'Precoce de Tontplaisia'.

223650. 'Commun'.

223656. 'Rouge du Rossipon'.

223651. 'De Hollande'.

223657. 'Sucre de Holub'.

223652. 'Paviot'.

223658 to 223666.

From the Netherlands. Plants and budwood presented by the Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen. Received Feb. 10, 1955.

223658 to 223665. *FRAGARIA VESCA* L. Rosaceae.

European strawberry.

223658 to 223666—Continued**223658 to 223665—Continued**

Plants.

223658. I.V.T. 667.**223662.** 'Jucunda'.**223659.** I.V.T. 707.**223663.** 'Kuntnars Triumph'.**223660.** I.V.T. 787.**223664.** 'Mieruailleuse de Tihange'.**223661.** I.V.T. 790.**223665.** 'Triomphe de Tihange'.**223666.** *MALUS SYLVESTRIS* Mill. Malaceae.
'St. Anna Rode Boskoop'. Budwood.**Apple.**

From Gooniwindi, Queensland. Jan. 21, 1955. Semiarid land.

223667. *ORMOSIA PANAMENSIS* Benth. Fabaceae.

From Cuba. Seeds presented by the Atkins Garden and Research Laboratory, Cienfuegos. Received Feb. 14, 1955.

'Peronil'.

223668 to 223677.

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

Received Feb. 10, 1955.

223668. *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae.**Intermediate wheatgrass.**

Col. No. 1639. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet. Plant to 3 feet high.

223669. *BRACHYPODIUM SYLVATICUM* (Huds.) Beauv. Poaceae.

Col. No. 1568. Nine miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 700 feet. Plant with broad leaves.

223670. *AIRA CAPILLARIS* Host Poaceae.**Annual hair-grass.**

Col. No. 1562. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

223671. *HELIANTHUS ANNUUS* L. Asteraceae.**Common sunflower.**

Col. No. 1498. 'Aftab Gardan'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Seeds used for oil or eaten as food.

223672. *BROMUS SCOPARIUS* L. Poaceae.**Brome.**

Col. No. 1558. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

223673 and 223674. *LALLEMANTIA IBERICA* (Bieb.) Fisch. & Meyer Menthaceae.**223673.** Col. No. 1492. 'Bazrak-i-Siah'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Seeds ground and eaten.**223674.** Col. No. 1557. 'Bazrakah Siah'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223675.** *SATUREJA HORTENSIS* L. Menthaceae.**Summer savory.**

Col. No. 1556. 'Marzeh'. March, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Leaves used as a vegetable.

223676. *PHLEUM PANICULATUM* Huds. Poaceae.**British timothy.**

Col. No. 1567. Twelve miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 900 feet.

223677. *SETARIA VIRIDIS* (L.) Beauv. Poaceae.**Green bristlegrass.**

Col. No. 1566. Twelve miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 900 feet. Wet ravine forest near the Caspian Sea.

223678 to 223680.

From Great Britain. Trees presented by R. C. Notcutt Limited, Woodbridge, Suffolk, England. Received Feb. 10, 1955.

223678. ACER PLANTANOIDES L. Aceraceae. **Norway maple.**
'Goldworth Purple'.

223679. MALUS (hybrid). Malaceae.
'Van Houttei'.

223680. RIBES SANGUINEUM Pursh Saxifragaceae. **Winter currant.**
'Pulborough Scarlet'.

223681. ILEX AQUILFOLIUM L. Aquifoliaceae. English holly.

From Yugoslavia. Seeds presented by the institut za Gozdno, Lesno, Ljubljana. Received Feb. 10, 1955.

From Panovec, Gorica District.

223682. TEPHROSIA VOGELII Hook. f. Fabaceae.

From Liberia. Seeds presented by the United States Operations Mission to Liberia. Received Feb. 10, 1955.

From the Central Experiment Station, Swakoko.

223683 to 223720.

From India. Seeds presented by the Division of Agriculture and Plant Breeding, Institute of Agriculture, Anand, Bombay Stat. Received Feb. 11, 1955.

223683 and 223684. ARACHIS HYPOGAEA L. Fabaceae. **Peanut.**

223683. No. 10. 'Sanrol No. 1'. Spreading type.

223684. No. 11. A.K. 10. Erect type.

223685 to 223687. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. **Guar.**

223685. No. 2. S-160-1. Vegetable type.

223686. No. 3. 78-21-6. Feed type.

223687. No. 4. S-298-17. Vegetable type.

223688. GOSSYPIUM ARBOREUM L. Malvaceae. **Asiatic tree cotton.**

No. 31. Red.

223689 to 223695. GOSSYPIUM HERABCEUM L. **Levant cotton.**

223689. No. 25. Plants normal green; flowers yellow.

223690. No. 26. Flowers white.

223691. No. 27. Plants pale green; flowers white.

223692. No. 28.

223693. No. 29. Plants pale green.

223694. No. 30. Seeds with no lint.

223695. No. 31A. Seeds with fuzzy lint.

223696 to 223708. GOSSYPIUM HIRSUTUM L. **Upland cotton.**

223696. No. 12. 'Indore 2'. **223703.** No. 19. B.C. 68.

223697. No. 13. 170-C02. **223704.** No. 20. 'Laxmi'.

223698. No. 14. 134-C02 Meade. **223705.** No. 21. C02.

223699. No. 15. 'Punjab, L.S.S. **223706.** No. 22. 68-22.

223700. No. 16. C04-B-40. **223707.** No. 23. 'Punjab 216F'.

223701. No. 17. 'Dhar'. Cambodia. **223708.** No. 24. 'Buri 0394'.

223702. No. 18. 'Parbhani'. American.

223683 to 223720—Continued

- 223709.** *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. **Moth bean.**
No. 6.
- 223710 and 223711.** *PHASEOLUS AUREUS* Roxb. **Mung bean.**
223710. No. 1. Seeds black.
223711. No. 5. Seeds green.
- 223712.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Casterbean.**
No. 9A.
- 223713 and 223714.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
223713. No. 7. 'Til-Monsoon'. Seeds white.
223714. No. 8. 'Tali'. Seeds white.
- 223715 to 223719.** *SORGHUM VULGARE* Pers. Poaceae.
223715. No. 32. 'Wani 14'. Grain type.
223716. No. 33. 'Wani 15'. Grain type.
223717. No. 34. 'Lhandesh Wani'. Grain type.
223718. No. 35. 'Budhperio 53'. Grain type.
223719. No. 36. S 1049. Forage type.
- 223720.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**
No. 9. Short-podded type.
- 223721 to 223734.** *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**
From Wisconsin. Tubers at the Potato Introduction Station, Sturgeon Bay.
Numbered Feb. 14, 1955.
From the Department of Plant Pathology, University of Wisconsin, Madison, Wis.
- | | |
|---------------------------------|---------------------------------|
| 223721. 'Arran Banner'. | 223728. 'Canso'. |
| 223722. 'Arran Cairn'. | 223729. 'Craigs Bounty'. |
| 223723. 'Arran Scout'. | 223730. 'Maritta'. |
| 223724. 'Arran Victory'. | 223731. 'Matador'. |
| 223725. 'Ballydoon'. | 223732. 'Parnassia'. |
| 223726. 'Bevelander'. | 223733. 'Vorán'. |
| 223727. 'British Queen'. | 223734. 'Ysselster'. |
- 223735.** *PRUNUS SEROTINA* var. *SALICIFOLIA* (Kunth) Koehne
Amygdalaceae.
From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de
Agricultura, Quito. Received Feb. 14, 1955.
'Capuli'.
- 223736.** *CAMELLIA RETICULATA* Lindl. Theaceae. **Netvein camellia.**
From Portugal. Plant received from Alfredo Moreira da Silva & Fos, Porto. Re-
ceived Feb. 14, 1955.
'Robert Fortune'.
- 223737.** *ORYZA SATIVA* L. Poaceae. **Rice.**
From Japan. Seeds presented by the Chugoku Agricultural Experiment Station,
Tadera, Hyogo-ken. Received Feb. 15, 1955.
Pi-No. 1.

223738 to 223745. GOSYPIUM sp. Malvaceae.

From Pakistan. Seeds obtained by the United States Operations Mission, Karachi.
Received Feb. 15, 1955.

Collected at Lyallpur.

223738. 268F.	223742. 289F/124.
223739. 289F/238.	223743. 4F.
223740. 216F.	223744. L.S.S.
223741. 289F/43.	223745. 289F/199.

223746. CRATAEGUS PINNATIFIDA Bunge Malaceae. Hawthorn.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md.

Col. No. 1193. On trail to Yakatal, Badakhshan.

223747 to 223752. SACCHARUM (hybrids). Poaceae. Sugarcane.

From Nicaragua. Cuttings presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received Feb. 15, 1955.

223747. 'Badilla'.	223750. D-1135.
223748. 'Caledonia Amarilla'.	223751. 'Rioas'.
223749. 'Chapina'.	223752. 'Walluca'.

223753 to 223831.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md.
Received Feb. 15, 1955.

Collected during September and October 1954.

223753 and 223754. ANETHUM GRAVEOLENS L. Apiaceae. Dill.

223753. Col. No. 1152. 'Zardek'. Jurm, Badakhshan. Elevation 4,800 feet.

223754. Col. No. 1183. 'Shibit'. Faizabad, Badakhshan. Elevation 4,000 feet. Leaves used as a green or cooked vegetable; also as forage.

223755. BETA VULGARIS L. Chenopodiaceae. Common Beet.

Col. No. 1180. 'Lablaboo'. Faizabad, Badakhshan. Elevation 4,000 feet.

223756. BRASSICA RAPA L. Brassicaceae. Turnip.

Col. No. 1185. 'Shalghem'. Faizabad, Badakhshan. Elevation 4,000 feet.

223757. BRASSICA CAMPESTRIS L. Bird rape.

Col. No. 1063. 'Sharshem'. Ghorband Valley, Kabul. Elevation 6,500 feet. Oilseed.

223758. BRASSICA sp.

Col. No. 1113. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Used as forage.

223759. BRASSICA CAMPESTRIS L. Bird rape.

Col. No. 1234. 'Sharsham'. Kataghan. Elevation 5,200 feet. Oilseed.

223760. CAJANUS CAJAN (L.) Druce Fabaceae. Pigeonpea.

Col. No. 1343. Laghman, Eastern Province. Elevation 2,600 feet. Plant to 8 feet high, 3-leaved; flowers yellow. Planted around the edges of sugarcane fields to protect the cane from cattle.

223761. CERCIS SILIQUASTRUM L. Fabaceae. Judas-tree.

Col. No. 1073. Khanabad River, Khanabad, Kataghan. Elevation 3,300 feet.

223753 to 223831—Continued

- 223762 and 223763.** *CICER ARIETINUM* L. Fabaceae. **Chickpea.**
223762. Col. No. 1217. 'Nakhood'. Yakatal, Badakhshan. Elevation 6,000 feet.
223763. Col. No. 1283. 'Nakhood'. Khanabad, Kataghan. Elevation 2,000 feet.
- 223764 and 223765.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**
223764. Col. No. 1148. Jurm, Badakhshan. Elevation 4,800 feet.
223765. Col. No. 1190. Trail to Yakatal, Badakhshan. Elevation 4,200 feet.
 Fruit to 1 foot in diameter; flavor excellent.
- 223766.** *CRATAEGUS* sp. Malaceae.
 Col. No. 1192. 'Dolana'. Trail to Yakatal, Badakhshan. Elevation 5,000 feet.
- 223767 to 223772.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
223767. Col. No. 1146. 'Kharbozeh'. Jurm, Badakhshan.
223768. Col. No. 1156. Jurm, Badakhshan. Elevation 4,800 feet. Fruit oval, green; flesh green; flavor excellent.
223769. Col. No. 1177. 'Kharbozeh-i-Zamburchehs'. Faizabad Badakhshan. Elevation 4,000 feet. Fruit elongate; flavor poor.
223770. Col. No. 1191. Trail to Yakatal, Badakhshan. Elevation 4,200 feet. Flavor excellent.
223771. Col. No. 1289. 'Kharbozeh-i-Asqalani'. Khanabad, Kataghan. Elevation 2,000 feet.
223772. Col. No. 1293. 'Kharbozeh'. Pul-i-Khumri, Kataghan. Elevation 2,500 feet.
- 223773.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**
 Col. No. 1186. 'Shir-Kadoo'. Faizabad, Badakhshan. Elevation 4,000 feet.
- 223774.** *CUMINUM CYMINUM* L. Apiaceae. **Cumin.**
 Col. No. 1101. 'Zireh-i-Siah'. Market, Faizabad, Badakhshan. Elevation 4,000 feet. Wild type; seeds black; used as a spice.
- 223775 and 223776.** *CYDONIA OBLONGA* Mill. Malaceae. **Quince.**
223775. Col. No. 1307. 'Behi'. Jalalabad. Elevation 2,300 feet. Fruit yellow, to 3 inches in diameter.
223776. Col. No. 1345. 'Behi'. Eastern Province. Elevation 3,500 feet. Wild type; fruit to 4 inches in diameter.
- 223777.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
 Col. No. 1181. 'Zardak'. Faizabad, Badakhshan.
- 223778 to 223781.** *ELAEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae. **Russian-olive.**
 Fruits dried; eaten in winter.
223778. Col. No. 1064. 'Sinjed-i-Makhak'. Ghorband Valley, Kabul. Elevation 6,500 feet.
223779. Col. No. 1065. 'Sinjed-i-Khormahi'. Ghorband Valley, Kabul. Elevation 6,500 feet.
223780. Col. No. 1110. 'Sinjed-i-Khasaki'. Barak, Badakhshan. Elevation 5,000 feet.
223781. Col. No. 1112. 'Sinjed-i-Khasaki'. Barak, Badakhshan. Elevation 5,000 feet. Fruit also eaten fresh.

223753 to 223831—Continued

223782. GLYCYRRHIZA sp. Fabaceae.

Col. No. 1127. 'Baiah'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Cut and dried for cattle feed in winter.

223783. IRIS sp. Iridaceae.

Col. No. 1166. Juniper Slope near Barak, Badakhshan. Elevation 6,000 feet.

223784. LAWSONIA INERMIS L. Lythraceae.

Henna.

Col. No. 1324. 'Khineh'. Jalalabad. Elevation 2,300 feet.

223785. LUFFA AEGYPTIACA Mill. Cucurbitaceae.

Suakwa towelgourd.

Col. No. 1188. 'Toraie'. Faizabad, Badakhshan. Elevation 4,000 feet. Cooked as a vegetable.

223786. MEDICAGO LUPULINA L. Fabaceae.

Black medic.

Col. No. 1125. 'Rishqueh'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.

223787 to 223789. MEDICAGO SATIVA L.

Alfalfa.

223787. Col. No. 1207. 'Rishqueh'. Yakatal, Badakhshan. Elevation 6,000 feet. Cut four times a year.

223788. Col. No. 1253. 'Rishqueh'. Kataghan. Elevation 7,000 feet.

223789. Col. No. 1080. 'Rishqueh'. Kalifgan, Kataghan. Elevation 5,200 feet.

223790. MORUS ALBA L. Moraceae.

White mulberry.

Col. No. 1102. 'Shir-Toot'. Market, Faizabad, Badakhshan. Eaten fresh or dried.

223791 to 223796. PANICUM MILIACEUM L. Poaceae.

Proso millet.

223791. Col. No. 1082. 'Tareq' or 'Arzan'. Kalifgan, Katagan. Elevation 5,300 feet.

223792. Col. No. 1114. 'Arzan'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.

223793. Col. No. 1137. 'Arzan'. Jurm, Badakhshan. Elevation 4,800 feet.

223794. Col. No. 1165. 'Arzan'. Chakaran, Badakhshan. Elevation 5,200 feet.

223795. Col. No. 1228. 'Arzan'. Kishma, Badakhshan. Elevation 3,000 feet.

223796. Col. No. 1306. 'Arzan'. Jalalabad. Elevation 2,300 feet.

223797 to 223799. PAPAVER SOMNIFERUM L. Papaveraceae.

Opium poppy

223797. Col. No. 1084. 'Khash-Khash'. Kishma, Badakhshan. Elevation 3,300 feet. Oil obtained from seeds and opium from capsules.

223798. Col. No. 1116. 'Khash-Khash'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.

223799. Col. No. 1157. 'Khash-Khash'. Chakaran, Badakhshan. Elevation 5,200 feet.

223800. PEGANUM HARMALA L. Zygophyllaceae.

Harmel peganum.

Col. No. 1303. 'Spand'. Jalalabad. Elevation 2,300 feet.

223801. PHASEOLUS ACONITIFOLIUS A. Gray Fabaceae.

Moth bean.

Col. No. 1336. 'Mote'. Laghman, Jalalabad. Elevation 2,500 feet.

223802. PHASEOLUS AUREUS Roxb.

Mung bean.

Col. No. 1068. 'Mash'. Doshi, Kataghan. Elevation 3,200 feet.

223803. PHASEOLUS COCCINEUS L.

Scarlet runner bean.

Col. No. 1144. 'Lobia'. Jurm, Badakhshan. Elevation 4,800 feet.

223753 to 223831—Continued

- 223804.** *PLANTAGO OVATA* Forsk. Plantaginaceae. **Plantain.**
Col. No. 1295. 'Esfarzen'. Jalalabad. Elevation 2,300 feet. Used as a medicinal tea.
- 223805 to 223807.** *PHOENIX DACTYLIFERA* L. Phoenicaceae. **Date palm.**
223805. Col. No. 1320. 'Khorma-i-Sorkh'. Jalalabad. Elevation 2,300 feet. Red type; used dried.
223806. Col. No. 1321. 'Khorma-i-Zard'. Jalalabad. Elevation 2,300 feet. Yellow type; reportedly best in area.
223807. Col. No. 1381. 'Jalghozeh'. Market, Kabul. Growing at New Gardez.
- 223808.** *PRUNUS AVIUM* L. Amygdalaceae. **Sweet cherry.**
Col. No. 1140. 'Gilass'. Jurm, Badakhshan. Elevation 4,800 feet.
- 223809.** *PRUNUS CERASUS* L. **Sour cherry.**
Col. No. 1178. 'Aloobaloo'. Faizabad, Badakhshan. Elevation 4,000 feet. Dried for winter use.
- 223810.** *PRUNUS DOMESTICA* L. **Common plum.**
Col. No. 1105. 'Aloocheh-niltak'. Barak, Badakhshan. Elevation 5,000 feet. Wild type; originally from Pamir mountains.
- 223811 and 223812.** *PRUNUS PERSICA* (L.) Batsch **Peach.**
223811. Col. No. 1141. 'Shaftaloo'. Jurm, Badakhshan. Elevation 4,800 feet. Fruits medium-sized, to 3 inches in diameter; skin white with red blush; flesh white; flavor good.
223812. Col. No. 1143. 'Shaftaloo'. Jurm, Badakhshan. Elevation 4,800; feet. Fruits to 2 inches in diameter; skin yellow; flavor good.
- 223813.** *PYRUS* sp. Malaceae.
Col. No. 1089. 'Nak-i-Kohi'. Market, Faizabad, Badakhshan. Elevation 4,000 feet. Fruits to 2 inches in diameter; color green; flavor good.
- 223814.** *PYRUS* sp.
Col. No. 1211. Yakatal, Badakhshan. Elevation 6,000 feet. Wild type; fruit to 2 inches in diameter.
- 223815 to 223817.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
223815. Col. No. 1226. 'Konjet'. Kishma, Badakhshan. Elevation 3,000 feet. Oilseed.
223816. Col. No. 1274. Taliqan, Kataghan. Elevation 3,000 feet. Oilseed.
223817. Col. No. 1287. 'Konjet'. Khanabad, Kataghan. Oct. 3, 1954.
- 223818.** *SESBANIA SESBAN* (L.) Merr. Fabaceae.
Col. No. 1338. 'Jinjir'. Laghman, Eastern Province. Elevation 2,500 feet. Eaten by sheep and cattle.
- 223819.** *SORGHUM VULGARE* Pers. Poaceae.
Col. No. 1292. Pul-i-Khumri, Kataghan. Elevation 2,500 feet.
- 223820.** *SORGHUM* sp.
Col. No. 1218. Ten miles south of Faizabad, Badakhshan. Elevation 3,800 feet. Tall perennial used in weaving mats.
- 223821.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**
Col. No. 1075. 'Seh-Bargah'. Kalifgan, Kataghan. Elevation 4,500 feet.
- 223822 to 223824.** *TRIFOLIUM REPENS* L. **White clover.**
223822. Col. No. 1128. 'Shaftal-i-Kohi' Khash, Jurm, Badakhshan.

223753 to 223831—Continued**223822 to 223824—Continued**

223823. Col. No. 1246. 'Shaftal'. Kataghan. Elevation 6,500 feet.

223824. Col. No. 1256. 'Shaftal'. Kataghan. Elevation 8,000 feet.

223825 to 223827. *TRIFOLIUM RESUPINATUM* L. **Persian clover.**

223825. Col. No. 1103. 'Shaftal'. Barak, Faizabad, Badakhshan. Elevation 5,000 feet.

223826. Col. No. 1233. 'Shaftal'. Kataghan. Elevation 5,200 feet.

223827. Col. No. 1288. Khanabad, Kataghan. Elevation 2,000 feet.

223828. *TRIFOLIUM PRATENSE* L. **Red clover.**

Col. No. 1257. 'Shaftal'. Kataghan. Elevation 8,000 feet. Plant large, reddish; on rocky bank of stream.

223829 to 223831. *ZEA MAYS* L. Poaceae. **Corn.**

223829. Col. No. 1206. 'Joweri'. Yakatal, Badakhshan. Elevation 6,000 feet.

223830. Col. No. 1271. 'Joweri'. Taliqan, Kataghan. Elevation 3,000 feet.

223831. Col. No. 1282. 'Joweri'. Khanabad, Kataghan. Elevation 2,000 feet.

223832 to 223834. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**

From Denmark. Scions presented by F. M. Knuth, Knuthenborg, Bandholm. Received Feb. 16, 1955.

223832. 'Geeveston Fanny'. (Typical).

223833. 'Geeveston Fanny'. (Russell Red Strain).

223834. 'James Grieve'. (Red strain).

223835. *ORYZA SATIVA* L. Poaceae. **Rice.**

From Japan. Seeds presented by the Chugoku Agricultural Experiment Station, Tadera, Hyogo-Ken. Received Feb. 15, 1955.

Pi.-No. 2.

223836. *GALANTHUS* sp. Amaryllidaceae.

From the Netherlands. Plants presented by Kapiteijn & Sons, Hillegom. Received Feb. 17, 1955.

223837 and 223838.

From Great Britain. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, Dundee, Scotland. Received Feb. 17, 1955.

223837. *RUBUS* sp. Rosaceae.

'Malling Exploit'.

223838. *RUBUS* sp.

'Malling Jewel'.

223839. *ORYZA SATIVA* L. Poaceae. **Rice.**

From Paraguay. Seeds presented by Fred J. Kemp, Primavera. Received Feb. 18, 1955.

223840. *CYPERUS ESCULENTUS* L. Cyperaceae. **Chufa.**

From Indonesia. Corms presented by the Bogor Botanic Garden through the United States Operations Mission, Bogor. Received Feb. 25, 1955.

Grown at Kebun Raya.

223841 to 223844.

From the Philippines. Seeds presented by the Central Experiment Station, College, Laguna. Received Feb. 21, 1955.

223841 to 223844—Continued

223841. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**
 223842. *CUCURBITA MOSCHATA* Duchesne Cucurbitaceae. **Cushaw.**
 223843. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**
 223844. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**

223845. HYPARRHENIA RUFA (Nees) Stapf Poaceae. **Jaragua.**
 From Panama. Seeds presented by the Servicio Inter-Americano de Cooperacion Agricola en Panama, Panama City. Received Feb. 21, 1955.

223846. DIOSPYROS KAKI L. f. Diospyraceae. **Oriental persimmon.**
 From Japan. Scions presented by the National Institute of Agricultural Science, Hiratsuka. Received Feb. 21, 1955.

'Matsumoto Wase Fuyu'. Cultivated by Yutaka Matsumoto at Shigasatomura, Ikaruka-gun, Kyoto Prefecture. A somatic sport found in 1935.

223847. COFFEA sp. Rubiaceae.
 From Mozambique. Seeds presented by A. J. Bettencourt, Maganja da Costa, Zambezia. Received Feb. 21, 1955.

'No. 297'.

223848 and 223849. PISTACIA VERA L. Anacardiaceae. **Pistachio.**
 From Iran. Seeds presented by the Plant and Animal Protection Bongah, Kerman, through the United States Operations Mission, Tehran. Received Feb. 17, 1955.

223848. Large-split nut.

223849. Medium-split nut.

223850 and 223851.

From Great Britain. Cuttings presented by George Jackman & Sons, Woking, Surrey, England. Received Feb. 23, 1955.

223850. *CYTISUS* sp. Fabaceae.

'Burkwood'.

223851. *CYTISUS PRAECOX* Wheeler ex Bean **Warminster broom.**

'Buttercup'.

223852 to 223854.

From Idaho. Bulbs presented by the Agricultural Experiment Station, Parma. Numbered Feb. 24, 1955.

Originally from Japan.

223852. *ALLIUM BAKERI* Regel Liliaceae.

'Rakkyo'. A Japanese pickling onion.

223853 and 223854. *ALLIUM FISTULOSUM* L. **Welsh onion.**

223853. 'Kujyo-negi'. Used chiefly for green leaves.

223854. 'Iwatsuki-negi'.

223855. CITRUS INDICA Tanaka Rutaceae. **India wild orange.**

From India. Seeds presented by the District Agricultural Officer, Naga Hills, Assam. Received Mar. 31, 1955.

223856 to 223860. RUBUS sp. Rosaceae.

From France. Plants presented by F. Delaunay, Angers. Received Feb. 24, 1955.

223856. 'All Summer'.

223859. 'Merveille de Quatre Saisons'.

223857. 'Belle de Fontenay'.

223860. 'November Abundance'.

223858. 'LaFrance'.

223861 to 223863. PISTACIA VERA L. Anacardiaceae. Pistachio.

From Syria. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat, Morocco. Received Feb. 24, 1955. Grown at Aleppo.

223861. 'Achouri'.

223862. 'Alemi'.

223863. 'Batouri'.

223864 to 223867.

From Australia and New Zealand. Seeds collected and presented by Walter L. Hodde, Wilgena, South Australia. Received Feb. 24, 1955.

223864. *ATRIPLEX SPONGIOSA* F. Muell. Chenopodiaceae. **Saltbush.**

Collected in desert about 500 miles northwest of Adelaide, Wilgena, South Australia.

223865. *BASSIA* sp. Chenopodiaceae.

Collected in desert about 500 miles northwest of Adelaide, Wilgena, South Australia.

223866. *BRASSICA OLERACEA* var. *VIRIDIS* L. Brassicaceae. **Kale.**

Collected at Hawks Bay Farmers' Cooperative Association Limited, eastern shore, North Island, New Zealand.

223867. *GERANIUM* sp. Geraniaceae.

Collected near Goondiwindi, Queensland, Australia.

223868 to 223911

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Center, Beltsville, Md. Received Feb. 24, 1955.

223868. *ALTHAEA ROSEA* (L.) Cav. Malvaceae. **Hollyhock.**

Col. No. 1167. Juniper Slope, near Barak, Badakhshan. Sept. 23, 1954. Elevation 6,100 feet. Wild, growing on dry steep granitic slope.

223869. *CELTIS* sp. Ulmaceae.

Col. No. 1222. 'Tokh'. Road to Faizabad, Badakhshan. Sept. 28, 1954. Elevation 3,600 feet. Tree to about 20 feet high.

223870. *HIBISCUS CANNABINUS* L. Malvaceae. **Kenaf.**

Col. No. 1290. 'Kendor'. Khanabad, Kataghan. Oct. 3, 1954. Elevation 2,000 feet.

223871. *JUNIPERUS COMMUNIS* L. Pinaceae. **Common juniper.**

Col. No. 1250. 'Archeh'. Kataghan. Sept. 30, 1954. Elevation 7,000 feet. Tree to about 30 feet high on rocky hillside.

223872. *MEDICAGO LUPULINA* L. Fabaceae. **Black medic.**

Col. No. 1259. 'Sehbar'. Kataghan. Oct. 1, 1954. Elevation 9,000 feet.

223873. *VICIA* sp. Fabaceae.

Col. No. 1255. 'Moshong-i-Kohi'. Kataghan. Oct. 1, 1954. Elevation 7,500 feet. Received Feb. 25, 1955. Collected between Sept. 15 and Oct. 3, 1954.

223874 to 223883. *HORDEUM VULGARE* L. Poaceae. **Barley.**

223874. Col. No. 1122. 'Jow-i-Lalmi'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Nonirrigated spring type.

223875. Col. No. 1160. 'Jow-i-Lalmi'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type.

223876. Col. No. 1161. 'Jow-i-Abi'. Chakaran, Badakhshan. Elevation 5,200 feet. Irrigated type.

223868 to 223911—Continued**223874 to 223883—Continued**

223877. Col. No. 1225. 'Jow-i-Lalmi'. Kishma, Badakhshan. Elevation 3,000 feet. Dryland type; planted in spring.

223878. Col. No. 1232. 'Jow'. Kataghan.

223879. Col. No. 1240. 'Jow'. Sangan, Kataghan. Spring type. Elevation 6,500 feet.

223880. Col. No. 1254. 'Jow'. Kataghan. Elevation 7,000 feet. Spring type.

223881. Col. No. 1264. 'Kal-Jow'. Kataghan. Elevation 9,000 feet. Spring type.

223882. Col. No. 1270. 'Jow'. Taliqan, Kataghan.

223883. Col. No. 1284. 'Jow'. Khanabad, Kataghan.

223884 to 223890. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

223884. Col. No. 1104. 'Zegher'. Barak, Badakhshan. Elevation 5,000 feet. Oilseed.

223885. Col. No. 1117. 'Zegher'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Oilseed.

223886. Col. No. 1158. 'Zegher'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type. Oilseed.

223887. Col. No. 1210. 'Zegher'. Yakatal, Badakhshan. Elevation 6,000 feet.

223888. Col. No. 1224. 'Zegher'. Kishma, Badakhshan. Elevation 3,000 feet. Oilseed.

223889. Col. No. 1275. Taliqan, Kataghan. Oilseed.

223890. Col. No. 1285. 'Zegher'. Khanabad, Kataghan. Elevation 2,000 feet. Oilseed.

223891 to 223894. *ORYZA SATIVA* L. Poaceae. **Rice.**

223891. Col. No. 1067. 'Berenj-i-Luk'. Doshi, Kataghan. Elevation 3,200 feet.

223892. Col. No. 1268. Kataghan. Elevation 5,500 feet. Thick type.

223893. Col. No. 1276. 'Berenj'. Taliqan, Kataghan. Elevation 3,000 feet. Thin type.

223894. Col. No. 1277. 'Berenj'. Taliqan, Kataghan. Thin type.

223895 to 223897. *SECALE CEREALE* L. Poaceae. **Rye.**

223895. Col. No. 1123. 'Jowder'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Wild type.

223896. Col. No. 1133. 'Jowder'. Jurm, Badakhshan. Elevation 4,800 feet. Weed in irrigated wheat fields.

223897. Col. No. 1267. 'Jowder'. Kataghan. Elevation 9,000 feet. Weed in irrigated wheatfields.

223898 to 223911. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

223898. Col. No. 1118. 'Gandom-i-Sorkheh'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Nonirrigated red type; planted in spring.

223899. Col. No. 1120. 'Gandom'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Irrigated.

223900. Col. No. 1121. 'Gandom'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Irrigated.

223901. Col. No. 1134. 'Gandom-i-Tirmahi'. Jurm, Badakhshan. Elevation 4,800 feet. Fall type, irrigated.

223868 to 223911—Continued**223898 to 223911—Continued**

223902. Col. No. 1162. 'Gandom-i-Lalmi'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type.
223903. Col. No. 1214. 'Gandom'. Yakatal, Badakhshan. Elevation 6,000 feet. White; dryland type.
223904. Col. No. 1230. 'Gandom'. Kataghan. Elevation 5,200 feet. Spring type; irrigated.
223905. Col. No. 1243. 'Gandom'. Sangan, Kataghan. Elevation 6,500 feet. Spring type; irrigated.
223906. Col. No. 1265. 'Gandom-i-Safadek'. Kataghan. Elevation 9,000 feet. White type; irrigated; planted in spring.
223907. Col. No. 1266. 'Gandom'. Kataghan. Elevation 9,100 feet. Spring type; irrigated.
223908. Col. No. 1272. 'Gandom'. Taliqan, Kataghan. Elevation 3,000 feet.
223909. Col. No. 1273. 'Gandom'. Taliqan, Kataghan. Elevation 3,000 feet.
223910. Col. No. 1280. 'Gandom'. Kahnabad, Kataghan. Elevation 2,000 feet.
223911. Col. No. 1281. 'Gandom-i-Safadek'. Kahnabad, Kataghan. Elevation 2,000 feet.

223912. JUGLANS REGIA L. Juglandaceae. Persian walnut.

From Iran. Seeds presented by the United States Operations Mission, Tehran. Received Feb. 28, 1955.

Collected from a grove on Mount Tochal, north of Tehran.

223913. PRUNUS TOMENTOSA Thunb. Amygdalaceae. Manchu cherry.

From Great Britain. Trees presented by the Sunningdale Nurseries, Windlesham, Surrey, England. Received Feb. 28, 1955.

'Fertilis'.

223914. MANGIFERA INDICA L. Anacardiaceae. Mango.

From Ceylon. Budwood presented by the Horticultural Officer, Peradeniya. Received Feb. 28, 1955.

'Peter Passand'.

223915 to 223928.

From El Salvador. Seeds presented by the United States Operations Mission, Santa Tecla. Received Feb. 28, 1955.

223915 to 223917. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

223915. 'Blue Mountain'.

223916. 'Bourbon'.

223917. 'National', Bourbon type.

223918. COFFEA ARABICA VAR. COLUMNARIS Cramer Coffee.**223919 to 223921. COFFEA ARABICA L. Arabian coffee.**

223919. 'Erecta'.

223920. 'Guadaloupe'.

223921. 'Le Roy'.

223922. COFFEA ARABICA VAR. MARAGOGIPE Froehn. Coffee.**223923. COFFEA ARABICA VAR. MOKKA Cramer Coffee.**

223915 to 223928—Continued

223924 to 223927. *COFFEA ARABICA* L. **Arabian coffee.**

223924. 'Murta'. 223926. 'Sumatra'.

223925. 'Padang'. 223927. 'Surinam'.

223928. *COFFEA ARABICA* L. var. *ARABICA*. **Coffee.**

223929 to 223933.

From Great Britain. Plants purchased from T. Hilling & Co., Limited, Chobham, England. Received Feb. 28, 1955.

223929. *ACER PLATANOIDES* L. Aceraceae. **Norway maple.**
'Waldersi'.

223930. *ACER SACCHARINUM* L. Aceraceae **Silver maple.**
'Pyramidale'.

223931. *PRUNUS AVIUM* L. Amygdalaceae. **Sweet cherry.**
'Flore Pleno Grandiflora'.

223932. *PRUNUS PADUS* L. **Bird cherry.**
'Flore Pleno'.

223933. *SALIX ALBA* L. SALICACEAE. **White willow.**
'Chrysostella'.

223934 to 223957. *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**

From Hawaii. Cuttings presented by the Experiment Station, Hawaiian Sugar Planters Association, Honolulu. Received Feb. 28, 1955.

223934. Mol. 5573. **223946.** 'Arundoid A'.

223935. Mol. 5843. **223947.** 53-4667.

223936. 53-4547. **223948.** 'Sumatra No. 1'.

223937. 53-4596. **223949.** 51-9001.

223938. U.D. 50. **223950.** 47-2077.

223939. U.D. 110. **223951.** 53-4764.

223940. 28-4291. **223952.** 51-9037.

223941. 53-4589. **223953.** Hairy 37-1933.

223942. Str. Mex. **223954.** 53-4586.

223943. 51-9002. **223955.** 'Arundoid B'.

223944. 35 U.H. 13. **223956.** 28-4399.

223945. 33-9039. **223957.** 53-4592.

223958 to 223966.

From Nicaragua. Stolons presented by the Servicio Tecnico Agrícola de Nicaragua, Managua. Received Feb. 28, 1955.

223958 to 223965. *ZOYSIA MATERLLA* (L.) Merr. Poaceae. **Manilagrass.**

223958. Stan. 1. **223962.** Stan. 5

223959. Stan. 2. **223963.** Stan. 6.

223960. Stan. 3. **223964.** Stan. 7.

223961. Stan. 4. **223965.** Stan. 8.

223966. *LOLIUM* (hybrid). Poaceae.

Stan 9. (*L. perenne* × *multiflorum*).

223967. LABURNUM ALPINUM (Mill.) Berch. & Presl Fabaceae.
Scotch laburnum.

From Norway. Seeds presented by the Botanic Garden, University of Oslo, Oslo.
 Received Mar. 1, 1955.

223968 to 223984.

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo.
 Campinas, Sao Paulo. Received Mar. 1, 1955.

223968 to 223974. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

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| 223968. 'Bourbon'.
(No. C 370-10-23). | 223972. 'Murta'. |
| 223969. 'Caturra'. | 223973. 'San Ramon'. |
| 223970. 'Cera'. | 223974. 'Xanthocarpa'.
(Amarelo de Botucatu). |
| 223971. 'Erecta'. | |

223975. COFFEA (hybrid). Coffee.
 (*C. arabica* × *dewevrei*) (No. 387).

223976. COFFEA CANEPHORA PIERRE ex Froehn. Coffee.
 (No. C 37.)

223977 to 223981. COFFEA CONGENSIS Froehn. Coffee.

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| 223977. 'Bangelan'. (No. C 794.) | 223980. 'Chalotti 3'. (No. C 1028-6.) |
| 223978. 'Chalotti 3'.
(No. C 1028-1.) | 223981. 'Chalotti 3'. (No. C 1028-8.) |
| 223979. 'Chalotti 3'.
(No. C 1028-2.) | |

223982 and 223983. COFFEA (hybrid). Coffee.

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| 223982. <i>C. congensis</i> × <i>ugandae</i> 2-15. (No. C 1027-1.) |
| 223983. <i>C. congensis</i> × <i>ugandae</i> 2-15. (No. C 1027-4.) |

223984. COFFEA LIBERICA Bull. Liberian coffee.
 (No. RP 254.)

223985 to 223987.

From Germany. Seeds presented by Anheuser-Busch Inc., St. Louis, Mo. Received
 Mar. 1, 1955.

223985. HORDEUM sp. Poaceae.

'Sommergerst III'. Saatzuchtwirtschaft Johann Firlbeck, Gut Rinkam bei
 Straubing.

223986. HORDEUM sp.

'Wisa Sommergerste'. Breun'sche Saatzuchtwirtschaft Steinbach beim Herzo-
 genaurach.

223987. HORDEUM sp.

'Frankengerste III'. Breun'sche Saatzuchtwirtschaft Galgenhof bei Herzo-
 genaurach.

223988 and 223989. PYRUS COMMUNIS L. Malaceae. Pear.

From Italy. Cuttings presented by the Istituto di Frutticoltura e de Elettrogenetica,
 Rome. Received Mar. 2, 1955.

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| 223988. 'Fragrans' (410). |
| 223989. 'Porporata' (145). |

223990. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**
From Japan. Budwood presented by the Shizuoka Citrus Experiment Station, Shizuoka-ken. Received Mar. 2, 1955.

'Ugumori Navel'.

223991. MEDICAGO ARABICA (L.) All. Fabaceae. **Spotted burclover.**
From Peru. Seeds presented by the United States Operations Mission, Lima. Received Mar. 2, 1955.

223992 and 223993. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**
From Costa Rica. Seeds presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 2, 1955.

223992. 'Mundo Novo-2544'.

223993. 1984.

223994 to 224002.

From New Zealand. Seeds presented by the Department of Scientific and Industrial Research, Christchurch. Received Mar. 2, 1955.

223994. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**
BC 656.

223995. LOLIUM MULTIFLORUM Lam. Poaceae. **Ryegrass.**
Bb 419.

223996. LOLIUM (hybrid).
Cg 96. (*L. perenne* × *multiflorum*).

223997. LOTUS PEDUNCULATUS Cav. Fabaceae. **Big trefoil.**
A 178.

223998 to 224000. LUPINUS ANGUSTIFOLIUS L. Fabaceae. **Blue lupine.**

223998. 'Bitter Pink'.

223999. 'Sweet Blue'.

224000. 'Sweet White'.

224001. LUPINUS LUTEUS L. **European yellow lupine.**
'Sweet Yellow'.

224002. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
'New Zealand Pedigree'.

224003 to 224043.

From Costa Rica. Seeds presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 2, 1955.

Originally from sources indicated.

224003 to 224026. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

224003 to 224014. Instituto de Agronomia Nacional, Guatemala.

224003. No. 971. 'Guadaloupe'.

224004. No. 972. 'Philippine'.

224005. No. 973. 'Chocola'.

224006. No. 975. 'Padang'.

224007. No. 976. 'Moca'.

224008. No. 977. 'Blue Mountain'.

224009. No. 980. 'Sumatra'. A strain, not the hybrid 'Sumatra'.

224003 to 224043—Continued**224003 to 224020—Continued****224003 to 224014—Continued**

224010. No. 981. 'Preanger'.

224011. No. 982. 'Ceylon hybrid'.

224012. No. 983. 'Bourbon' (red).

224013. No. 984. 'San Ramon'. Dwarf variety, originally from Costa Rica.

224014. No. 986. 'Purpurascens'. Distributed generally as 'Blue Mountain.'

224015 to 224021. Centro Nacional Agronomico, El Salvador.

224015. No. 987. 'Purpurascens'.

224016. No. 989. 'Guadaloupe'.

224017. No. 990. 'Surinam'.

224018. No. 992. 'Padang'.

224019. No. 993. 'Salvador Nacional'.

224020. No. 995. 'Bourbon' (red).

224021. No. 996. 'Erecta'; not the variety 'Erecta' known from Java and Brazil.

224022 to 224026. Santa Ana, El Salvador.224022. No. 1996. 224025. No. 1999. 6-1.224023. No. 1997. A-187. 224026. No. 2000.

224024. No. 1998.

224027. COFFEA ARABICA VAR. MOKKA Cramer

From Instituto Nacional de Agricultura, Guatemala. No. 2137. 'Kona'.

224028 to 224042. COFFEA ARABICA L.**Arabian coffee.**

224028 to 224030. From Instituto Nacional de Agricultura, Guatemala.

224028. No. 2139. 'Surinam'.

224029. No. 2140. 'Le Roy'.

224030. No. 2143. 'Pretoria'.

224031 to 224037. From Ethiopia; collected by W. A. Archer in December, 1950.

224031. No. 2247. Selection from P.I. 194265.

224032. No. 2248. Selection from P.I. 194266.

224033. No. 2249. Selection from P.I. 194724.

224034. No. 2250. Selection from P.I. 194725.

224035. No. 2253. 'Geffel'. Selection from P.I. 194728.

224036. No. 2254. 'Corovana'. Selection from P.I. 194729.

224037. No. 2255. Selection from P.I. 194914.

224038. No. 2299. 'Laurina'. Hacienda Atirro, Costa Rica.

224039. No. 2401. 'Pantgoer'. Federal Experiment Station, Mayaguez, Puerto Rico.

224040. No. 2540. 'Bourbon Amarillo'. ('Xanthocarpa'). A selection from P.I. 206066. Campinas, Brazil.

224041. 'Villalobos'. Alajuela, Costa Rica.

224042. 'Hilbirdo Salvadoreno'. A strain of 'Bourbon'. Alajuela, Costa Rica.

224043. COFFEA CANEPHORA Pierre ex Froehn.**Coffee.**

No. 2275. Hacienda Atirro, Costa Rica.

- 224044.** *ELEOCHARIS DULCIS* (Burm. f.) Trin. Cyperaceae. **Matai.**
From the Philippines. Seeds presented by the University of the Philippines, Laguna.
Received Mar. 4, 1955.
Seeds collected by the Botany Department, Cavite Province, Luzon, 80 km. from Laguna.
- 224045.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
From France. Seeds presented by A. Rousset & Fils, Paris. Received Mar. 2, 1955.
'Flamande'.
- 224046.** *MANGIFERA INDICA* L. Anacardiaceae. **Mango.**
From the Philippines. Seeds presented by the Agricultural Attache, American Embassy, Manila. Received Mar. 4, 1955.
- 224047 to 224061.** *GOSSYPIUM* sp. Malvaceae.
From Japan. Seeds presented by Anderson, Clayton & Co.'s Agency, Osaka. Received Mar. 8, 1955.
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| 224047. 'Kanno No. 1'. | 224055. 'Chugoku No. 18'. |
| 224048. Wild. | 224056. 'Kanto No. 26'. |
| 224049. U.S.A. selection. | 224057. 'Chugoku No. 17'. |
| 224050. 'Miss-Del'. | 224058. 'Chugoku No. 1'. |
| 224051. 'Cook'. | 224059. 'Kanto No. 30'. |
| 224052. 'Coker'. | 224060. 'Shiso'. |
| 224053. 'Chudai'. | 224061. 'Naganapree'. |
| 224054. 'Filistani'. | |
- 224062 and 224063.** *NICOTIANA EXCELSIOR* J. M. Black Solanaceae. **Tobacco.**
From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Mar. 8, 1955.
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| 224062. T.S. 50. Mount Magnet, Western Australia. |
| 224063. T.S. 72. Everard Park, South Australia. |
- 224064.** *APIUM PANUL* (DC.) Gay Apiaceae.
From Chile. Seeds presented by Professor Gilberto Montero O., Temuco, through the American Embassy, Santiago. Received Mar. 8, 1955.
- 224065 to 224067.** *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**
From Costa Rica. Tubers presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 8, 1955.
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| 224065. 'Harford'. |
| 224066. 'Rosanel'. |
| 224067. 'Ticanel'. |
- 224068.** *HORDEUM* sp. Poaceae.
From Germany. Seeds presented by the Bayerische Warenvermittlung Landwirtschaftlicher Genossenschaften, A. G., Munich. Received Mar. 8, 1955.
'Mullers Franken-Barley II'.
- 224069 and 224070.** *AVENA SATIVA* L. Poaceae. **Common oats.**
From Sweden. Seeds presented by W. Weibull AB, Orginalutsaden, Landskrona. Received Mar. 8, 1955.
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| 224069. 'Weibull's original Bamboo II'. |
| 224070. 'Weibull's No. 16004'. |

224071. COFFEA ARABICA L. Rubiaceae Arabian coffee.

From Colombia. Seeds presented by the National Federation of Coffee Growers Research Station, Chinchina. Received Mar. 8, 1955.

'Bourbon'. From a tree listed as A-R-MAC, apparently resistant to *Ceratostomella* sp. Despite inoculation with this fungus in February, 1951, the mother tree still resists the infection and the symptoms have advanced only a few centimeters from the point of inoculation.

224072. INCARVILLEA GRANDIFLORA Bur. & Franch. Bignoniaceae. Bigflower incarvillea.

From Sweden. Seeds presented by the Universitetes Botaniska Tradgarden, Uppsala. Received Mar. 10, 1955.

224073. DIGITALIS sp. Scrophulariaceae.

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received Mar. 8, 1955.

Collected near Usme.

224074. ELEOCHARIS DULCIS (Burm. f.) Trin. Cyperaceae. Matai.

From the Philippines. Corms presented by the Central Experiment Station, Laguna. Received Mar. 9, 1955.

Collected from the shores of Lake Luok near Castillejoe, Zambales Province.

224075. VICIA GRAMINEA J. E. Sm. Fabaceae. Vetch.

From Argentina. Seeds presented by the Instituto de Fitotecnica, Buenos Aires. Received Mar. 10, 1955.

SD 55-16. Castelar, Buenos Aires Province.

224076 and 224077.

From Pakistan. Seeds presented by the Divisional Forest Officer, Nowshera, North-west Frontier Province. Received Mar. 10, 1955.

224076. CEDRUS DEODARA (Lamb.) Loud. Pinaceae. Deodar cedar.

224077. PINUS ROXBURGHII Sargent Pinaceae. Pine.

'Chir'.

224078 to 224080. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

From Great Britain. Scions presented by the East Malling Research Station, Maidstone, Kent, England. Received Mar. 10, 1955.

224078. 'Amber 4'.

224079. 'Gugne d'Annonay'.

224080. 'Merton Glory' M. 503.

224081 and 224082. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Great Britain. Scions presented by the National Fruit Trials, Wisley, Surrey, England. Received Mar. 10, 1955.

224081. 'Merton Prolific'. Fruit medium size, green turning to pale yellow with carmine flush; flesh creamy white; juicy, sweet; crop heavy.

224082. 'Merton Worcester'. Fruit medium size, creamy-yellow, nearly covered with a scarlet flush; flesh firm, crisp, juicy, sweet and aromatic. A free-cropping variety.

224083. ZEA MAYS L. Poaceae Corn.

From Michigan. Seeds at the Agricultural Experiment Station, East Lansing. Numbered Mar. 10, 1955.

An open-pollinated strain received from Albert Porritt, Alto, Mich., where it has been maintained for more than 50 years.

224084. ZELKOVA CARPINIFOLIA (Pall.) Dipp. Ulmaceae.

From Great Britain. Cuttings presented by the Royal Botanic Gardens, Kew, Surrey, England. Received Mar. 10, 1955.

224085 to 224090. PYRUS COMMUNIS L. Malaceae Pear.

From Japan. Scions presented by the Faculty of Agriculture, Tokyo University, Hongo, Tokyo. Received Mar. 10, 1955.

224085. 'Ishiiwase'.

224088. 'Tzu-li'.

224086. 'Kikusiu'.

224089. 'Yakumo'.

224087. 'Shinseiki'.

224090. 'Yarr-li'.

224091. SANSEVIERIA sp. Liliaceae.

From Costa Rica. Cuttings collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 5, 1955.

224092. IRIS sp. Iridaceae.

From Japan. Rhizomes presented by Max H. James, Higaimoto, Nara-Ken. Received Apr. 6, 1955.

224093. SANSEVIERIA TRIFASCIATA Prain Liliaceae.

From Guatemala. Cutting collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 6, 1955.

Collected near Managua.

224094. GOSSYPIUM sp. Malvaceae. Cotton.

From the Anglo-Egyptian Sudan. Seeds obtained through the Cotton & Cordage Fibers Branch, Crops Research Division, Beltsville, Md. Received Apr. 6, 1955.

224095. RAUVOLFIA CAFFRA Sond. Apocynaceae. Devilpepper.

From the Belgian Congo. Cuttings presented by the Institut National pour l'Etude Agronomique du Congo Belge, Keyberg. Received Apr. 6, 1955.

224096. RAUVOLFIA VERTICILLATA (Lour.) Baill. Devilpepper.

From Mexico. Plant presented by the Agricultural Attache, American Embassy, Mexico City. Received Mar. 11, 1955.

224097 to 224127. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae. Koster azalea.

From Great Britain. Plants purchased from G. Reuthe Limited, Keston, Kent, England. Received Mar. 11, 1955.

224097 and 224098. Exbury hybrids.

224097. 'Kipps'.

224098. 'Oxydol'.

224099 to 224109. Ghent hybrids.

224099. 'Anna Louise'.

224105. 'Ignea Nova'.

224100. 'Beaute Celeste'.

224106. 'Nancy Waterer'.

224101. 'Bouquet de Flore'.

224107. 'Pallas'.

224102. 'Coccinea Speciosa'.

224108. 'Sang de Genthbrugge'.

224103. 'Fanny'.

224109. 'Unique'.

224104. 'Gloria Mundi'.

224110 to 224122. (*R. molle* × *sinense*) × *R. molle*.

224097 to 224127—Continued

224110 to 224122—Continued

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| 224110. | 'Babeuff'. | 224117. | 'Hortulanus Witte'. |
| 224111. | 'Comte de Gomer'. | 224118. | 'Koster's Brilliant Red'. |
| 224112. | 'Comte de Quincy'. | 224119. | 'Lemonora'. |
| 224113. | 'Dr. Leon Vignes'. | 224120. | 'Multatuli'. |
| 224114. | 'Dr. M. Oosthoek'. | 224121. | 'Prof. Donders'. |
| 224115. | 'Floradora'. | 224122. | 'W. E. Gumbleton'. |
| 224116. | 'Hamlet'. | | |

224123 to 224127. Occidentale hybrids.

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| 224123. | 'Exquisita'. | 224126. | 'Rosea'. |
| 224124. | 'Irene Koster'. | 224127. | 'Superba'. |
| 224125. | 'Magnifica'. | | |

224128 to 224153.

From the Union of South Africa. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.

Collected Mar. 1 to 3, 1955.

224128 and 224129. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

224128. Col. No. 4. Rietondale Station, Pretoria, Transvaal. Plant tall, leafy.

224129. Col. No. 4a.

224130. *DIGITARIA SCALARUM* (Schweinf.) Chiov. Poaceae.

Col. No. 5. Rietondale Station; originally from Marsabit, Kenya. A dense, spreading grass.

224131. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 6. Rietondale Station. Grass tall; stems and leaves fine.

224132. *DIGITARIA* sp. Poaceae.

Col. No. 7. Rietondale Station; originally from Eldoret, Kenya.

224133. *ACROCERAS MACRUM* Stapf Poaceae.

Col. No. 8. Rietondale Station. Plant 3 feet high.

224134. *DIGITARIA SCALARUM* (Schweinf.) Chiov. Poaceae.

Col. No. 9. Rietondale Station. Good grazing type.

224135. *PENNISETUM UNISSETUM* (Nees) Benth. Poaceae.

Col. No. 10. Rietondale Station. Plant 3 feet high.

224136. *PENNISETUM* sp.

Col. No. 11. Rietondale Station; originally from Eastern Africa. Plant to 6 feet high.

224137. *DIGITARIA* sp. Poaceae.

Col. No. 12. Rietondale Station; originally from the Kalahari Desert.

224138. *DIGITARIA SCALARUM* (Schweinf.) Chiov.

Col. No. 13. Rietondale Station. Stems and leaves fine.

224139. *CYNODON* sp. Poaceae.

Col. No. 14. 'Schaapplaa's'. Pretoria Botanic Garden. Dense sod forming.

224140. *CYNODON* sp.

Col. No. 15. 'Reitz'. Pretoria Botanic Garden. Lawngrass.

224128 to 224153—Continued**224141.** CYNODON sp.

Col. No. 16. 'Harrismith Kweek'. Pretoria Botanic Garden.

224142. CYNODON sp.

Col. No. 17. Pretoria Botanic Garden. Tall; grazing type.

224143. CYNODON DACTYLON (L.) Pers.**Bermudagrass.**

Col. No. 18. Pretoria Botanic Garden. Grass rapid spreading; rhizomes long.

224144. CYNODON sp.

Col. No. 19. Eight miles from Pretoria. Grass tall; rhizomes long.

224145. CYNODON sp.

Col. No. 20. 'Schaappaas'. Frankenwald, Johannesburg. Dense turf.

224146. CYNODON sp.

Col. No. 21. 'Elliott'. Frankenwald, Johannesburg. Lawngrass.

224147. CYNODON sp.

Col. No. 22. 'Royal Cape'. Frankenwald, Johannesburg. Very hardy lawn-grass.

224148. CYNODON sp.

Col. No. 23. Frankenwald, Johannesburg. A medium to coarse lawngrass.

224149. CYNODON DACTYLON (L.) Pers.**Bermudagrass.**

Col. No. 24. 'Hall's Selection'. Frankenwald, Johannesburg. Popular lawn-grass.

224150. DIGITARIA SWAZILANDENSIS Stent Poaceae.

Col. No. 25. Frankenwald, Johannesburg. Fine lawngrass.

224151. CYNODON sp. Poaceae.

Col. No. 26. Frankenwald, Johannesburg. Compact and rapid sodding.

224152. CYNODON sp.

Col. No. 27. Frankenwald, Johannesburg. To 3 feet high; stolons heavy.

224153. (Undetermined.) Poaceae.

Col. No. 27 a. Pretoria.

224154. SOLANUM TUBEROSUM L. Solanaceae.**Potato.**

From Mexico. Tubers collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 15, 1955.

Col. No. 5. Market, San Cristobal, Chiapas. Mar. 4, 1955. Tubers about 1.5 cm. in diameter.

224155 to 224181.

From Africa. Seeds presented by the Empire Cotton Growing Corporation, London. Received March 11, 1955.

224155 to 224169. From Uganda.**224155 to 224168.** GOSSYPIUM HIRSUTUM L. Malvaceae.**Upland cotton.****224155.** 'Albar 36'.**224162.** 'Albar 367'.**224156.** 'Albar 49S'.**224163.** 'Albar 368'.**224157.** 'Albar 51'.**224164.** C(50) 20.**224158.** 'Albar 312'.**224165.** MU8 × BP 52². A. 618.**224159.** 'Albar 316'.**224166.** MU8 × BP 52². A. 619.**224160.** 'Albar 318'.**224167.** MU8 × BP 52². A. 7233.**224161.** 'Albar 320'.**224168.** MU8 × BP 52². A. 7262.

224155 to 224181—Continued**224155 to 224169—Continued**

- 224169.** *THESPIESIA LAMPAS* (Cav.) Dalz. & Gibs. Malvaceae.
- 224170 to 224181.** From the Anglo-Egyptian Sudan.
- 224170 to 224175.** *GOSSYPIUM BARBADENSE* L. Malvaceae. **Sea-island cotton.**
- 224170.** BAR 14/9. **224173.** BAR 14/19.
- 224171.** BAR 14/11. **224174.** BAR 14/20.
- 224172.** BAR 14/16. **224175.** BAR 14/31.
- 224176.** *GOSSYPIUM HERBACEUM* L. **Levant cotton.**
'Africanum HA 3'.
- 224177 to 224179.** *GOSSYPIUM HIRSUTUM* L. **Upland cotton.**
- 224177.** BAR 11/1.
- 224178.** 'Kapas Purão'.
- 224179.** Mu 8 b.
- 224180.** *GOSSYPIUM PUNCTATUM* Schum. & Thonn. **Cotton.**
19b.8.7. Originally from French West Africa.
- 224181.** *GOSSYPIUM* sp.
19b.8.1. From Gambia.
- 224182.** *DIOSCOREA SPICULIFLORA* Hemsl. Dioscoreaceae. **Yam.**
From Mexico. Collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.
No. 1. Rancho de Esperanza, 2 km. northeast of Chiapa, Camino Nacional, Tuxtla Gutierrez San Cristobal, Chiapas, Mar. 3, 1955.
- 224183.** (Undetermined).
From Mexico. Plant collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.
No. 7a. Soap plant. From market, San Cristobal, Chiapas. Mar. 4, 1955.
- 224184 and 224185.**
From Puerto Rico. Seeds presented by the Agricultural Experiment Station, Rio Piedras. Received Mar. 15, 1955.
- 224184.** *COFFEA ARABICA* var. *COLUMNARIS* Cramer Rubiaceae. **Coffee.**
- 224185.** *COFFEA ARABICA* L. **Arabian coffee.**
'Puerto Rico'.
- 224186 to 224195.**
- From Great Britain. Trees purchased from Hillier & Sons, Winchester, England. Received Mar. 15, 1955.
- 224186.** *ACER NEGUNDO* L. Aceraceae. **Boxelder.**
'Aureo-variagata'.
- 224187.** *ACER PSEUDOPLATANUS* f. *CORSTORPHINENSE* Schwer. **Maple.**
- 224188.** × *CRATAEGOMESPILUS DARDARI* Simon-Louis Malaceae.
- 224189.** *FRAXINUS ANGUSTIFOLIA* var. *LENTISCIFOLIA* (Desf.) Henry Oleaceae. **Narrowleaf ash.**
- 224190.** *FRAXINUS PAXIANA* Lingelsch. **Pax ash.**
- 224191.** *FRAXINUS XANTHOXYLOIDES* (G. Don) DC. **Afghan ash.**

224186 to 224195—Continued

224192. MALUS HUPEHENSIS (Pamp.) Rehd. Malaceae.
'Rosea'.

224193. MALUS TRILOBATA (Labill.) Schneid.

224194. PRUNUS SUBHIRTELLA Miq. Amygdalaceae. **Higan cherry.**
'Rosea'.

224195. PYRUS SALICIFOLIA Pall. Malaceae. **Willow-leaved pear.**
'Pendula'.

224196. PYRUS COMMUNIS L. Malaceae. **Common pear.**

From Japan. Scions presented by the Ministry of Agriculture and Forestry, Tokyo.
Received Mar. 15, 1955.

'Nijusseki'.

224197 and 224198. MALUS SYLVESTRIS Mill. Malaceae. **Apple.**

From Sweden. Scions presented by the Balsgard Fruit Breeding Institute, Fjalkestad.
Received Mar. 15, 1955.

224197. 'Gul Richard' (gul-yellow). Tree seldom grown; ripening in December; fruits green-yellow to green-white; flavor fine and mild. In Germany it is known as 'Gelber Richard', originally from Mecklenburg; probably over 100 years old. Very susceptible to apple scab and spray damage.

224198. 'Oretorp Renett'. Local variety; fruits keep well, ripening sound and late; resistant to scab. Originally from northeastern Scania, southern Sweden; parentage and age unknown; used in several crosses at Balsgard.

224199 to 224210.

From Great Britain. Trees purchased from Hillier & Sons, Winchester, England.
Received Mar. 15, 1955.

224199. ACER BRIANTHUM Schwer. Aceraceae. **Maple.**

224200. ACER LAXIFLORUM Pax. Aceraceae. **Maple.**

224201. ACER MICRANTHUM Sieb. & Zucc.

224202 and 224203. ACER PALMATUM Thunb. **Japanese maple.**

224202. 'Argenteo-variagata'.

224203. 'Flavescens'.

224204. FRAXINUS EXCELSIOR L. Oleaceae. **European ash.**
'Aurea Pendula'.

224205. MAHONIA AQUIFOLIUM (Pursh) Nutt. Berberidaceae. **Oregongrape.**
'Moseri'.

224206. PHYLLOSTACHYS NIGRA (Lodd.) Munro Poaceae. **Bamboo.**

224207. PRUNUS FRUTICOSA Pall. Amygdalaceae. **European dwarf cherry.**

224208. PRUNUS sp.

'Okame'.

224209. SALIX sp. Salicaceae.

224210. ULMUS PROCERA var. VIMINALIS Salisb. Ulmaceae. **Elm.**
'Variegata'.

224211 to 224216. VITIS VINIFERA L. Vitaceae. **European grape.**

From Italy. Cuttings presented by the Stazione di Viticoltura, Conegliano. Received Mar. 11, 1955.

224211. 'Couderc 21'.

224214. 'Seyve-Villard 18118'.

224212. 'Couderc 22'.

224215. 'Seyve-Villard 12417'.

224213. 'Seibel 4614'.

224216. 'Terzi 108. 6'.

224217. PYRUS COMMUNIS L. Malaceae. Pear.

From Sweden. Scions presented by Dr. Frederik Nilsson, Alnarp, Akarp. Received Mar. 16, 1955.

'Charneu' × 'Herzogin Elsa'.

224218 to 224267. BETA VULGARIS L. Chenopodiaceae. Beet.

From the Netherlands. Seeds presented by the Instituut voor rationele Suikerproductie, Bergen Op Zoom. Received Mar. 17, 1955.

224218.	55 M 1.	224243.	55067.
224219.	55 M 2.	224244.	55070.
224220.	55 M 3.	224245.	55072.
224221.	55 M 5.	224246.	55075.
224222.	55 M 6.	224247.	55100.
224223.	55 M 7.	224248.	55101.
224224.	55 M 8.	224249.	55124.
224225.	55 M 9.	224250.	55126.
224226.	55 M 11.	224251.	55131.
224227.	55 M 14.	224252.	55138.
224228.	55 M 16.	224253.	55139.
224229.	55 M 17.	224254.	55142.
224230.	55 M 18.	224255.	55146.
224231.	55 M 20.	224256.	55161.
224232.	55 M 21.	224257.	55162.
224233.	55 M 22.	224258.	55189.
224234.	55 M 24.	224259.	55216.
224235.	55 M 27.	224260.	55228.
224236.	55 M 28.	224261.	55252.
224237.	55013.	224262.	55316.
224238.	55022.	224263.	55317.
224239.	55023.	224264.	55319.
224240.	55032.	224265.	55321.
224241.	55035.	224266.	55405.
224242.	55046.	224267.	55409.

224268 to 224276. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

From Japan. Seeds presented by the Laboratory for Plant Breeding, Hyogo Agricultural College, Hyogo-ken. Received Mar. 17, 1955.

224268.	'Asomasari'.	224273.	'Ohita Ahidaizu-No. 2'.
224269.	'Chasengoku'.	224274.	'Shinmeziro'.
224270.	'Howgyoku'.	224275.	'Tamamusume'.
224271.	'Nohrin—No. 3'.	224276.	'Ugodaizu'.
224272.	'Ohdate—No. 1'.		

224277 to 224279.

From Germany. Seeds presented by Anheuser-Busch Inc., St. Louis, Mo. Received Mar. 17, 1955.

224277.	HORDEUM sp. Poaceae.
	'Ackerman's Donavia'.

224277 to 224279—Continued

224278. HORDEUM sp.

'Ackerman's Tsaria'.

224279. HORDEUM sp.

'SJ Cug's Franklin III'.

224280 to 224299.

From the Union of South Africa. Seeds presented by the College of Agriculture, Potchefstroom, Transvaal. Received Mar. 17, 1955. A collection of summer wheat.

224280 to 224285. TRITICUM AESTIVUM L. Poaceae. Common wheat.

224280. 112/52. 224283. 150/52.

224281. 1275/2. 224284. 171/52.

224282. 134/52. 224285. 190/52.

224286 to 224299. ZEA MAYS L. Poaceae. Corn.

224286. 'Teopod 1'. 224294. Inbred A 281.

224287. 'Teopod 2'. 224295. Inbred A 377.

224288. 'Teopod 3'. 224296. Inbred A 377-1.

224289. 'Teopod 4'. 224297. Inbred A 377-2.

224290. 'Teopod 5'. 224298. Inbred A 377-2-1 53 ×
7B-1482.

224291. 'Teopod 6'. 224299. Inbred A 377-2-1 54 ×
11B-1817.

224292. 'Teopod 8'.

224293. 'Teopod 10'.

224300 to 224305.

From Sweden. Seeds presented by Wilson H. Foote, Lund. Received Mar. 17, 1955.

224300 and 224301. AVENA SATIVA L. Poaceae. Common oats.

224300. 'Bambu II'.

224301. 'Flaminggold' × 'Bambu'.

224302. HORDEUM sp. Poaceae.

'Weibull's 5425'.

224303 to 224305. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.

224303. 'Weibull's R 28 9' (tetraploid).

224304. 'Essi' (tetraploid).

224305. 'Resistentia' (tetraploid).

224306. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Sweden. Scions presented by Statens Tradgardsforsok, Alnarp. Received Mar. 17, 1955.

'Alfa 68'.

224307 to 224313. FICUS CARICA L. Moraceae. Common fig.

From Algeria. Cuttings presented by the Service de L'Arboriculture, Gouvernement General de L'Algerie, Sidi-Aich.

224307. 'Albo'. 224311. 'Marseille'.

224308. 'Azendjar'. 224312. 'Tameriout'.

224309. 'Bourjassotte'. 224313. 'Taranimt'.

224310. 'Kennedy Castte'.

224314. CYNODON sp. Poaceae.

From the Union of South Africa. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 17, 1955.

No. 54.

224315 and 224316.

From Mexico. Seeds presented by Dr. Jerzy Rzedowski, Instituto de Investigacion de Zonas Deserticas, San Luis Potosi. Received Mar. 18, 1955.

224315. ZINNIA JUNIPERIFOLIA A. Gray Asteraceae.

Sierra de Guadaluca, east of Nuñez, San Luis Potosi.

224316. ZINNIA LINEARIS Benth.

Sierra de San Miquelito, 20 km. southwest of city of San Luis Potosi.

224317 to 224324. VITIS VINIFERA L. Vitaceae. European grape.

From Italy. Cuttings presented by the Stazione Sperimentale di Viticoltura, Conegliano. Received Mar. 21, 1955.

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| 224317. 'De Hero di St. Vallier'. | 224321. 'Seibel Blanco Co.' 8343. |
| 224318. 'La Pierrelle'. | 224322. 'Seibel Blanco Co.' 10,173. |
| 224319. 'Mosc. di St. Vallier'. | 224323. 'Seibel Nero' 5455. |
| 224320. 'Seibel Blanco Co.' 5178. | 224324. 'Seibel Nero' 10,096. |

224325. CITRUS AURANTIFOLIA (Christm.) Swingle Rutaceae. Lime.

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Mar. 21, 1955.

'Lime de RaLat'. Spineless.

224326 to 224397.

From Great Britain. Plants presented by the Sunningdale Nurseries, Windlesham, Surrey, England. Received Mar. 22, 1955.

224326 to 224362. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.

Azalea.

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| 224326. 'Alma Tadema'. | 224342. 'Firebrand'. |
| 224327. 'Alphonse Lavallee'. | 224343. 'Fireflame'. |
| 224328. 'Anthony Koster'. | 224344. 'Garten Inspektor Ohrt'. |
| 224329. 'Betsy de Bruin'. | 224345. 'Hugo Koster'. |
| 224330. 'Bouquet Orange'. | 224346. 'Kosters Deep Red'. |
| 224331. 'Christopher Wren'. | 224347. 'Lemonora'. |
| 224332. 'Colonel F. R. Durham'. | 224348. 'Marconi'. |
| 224333. 'Comte de Papadopoli'. | 224349. 'Mrs. A. E. Endtz'. |
| 224334. 'Comte de Quincey'. | 224350. 'Mrs. C. C. Page'. |
| 224335. 'Director Moerlands'. | 224351. 'Mrs. L. J. Endtz'. |
| 224336. 'Dr. Reichenbach'. | 224352. 'Mrs. Peter Koster'. |
| 224337. 'Edison'. | 224353. 'Multatuli'. |
| 224338. 'Elizabeth'. | 224354. 'Princess Juliana'. |
| 224339. 'Elizabeth Cuthbert'. | 224355. 'Professor M. Koster'. |
| 224340. 'Emile Liebig'. | 224356. 'Queen Emma'. |
| 224341. 'Esmeralda'. | 224357. 'Salmon Queen'. |
| | 224358. 'Snowdrift'. |

224326 to 224397—Continued

224326 to 224362—Continued

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| 224359. 'Southgate Wonder'. | 224361. 'Spinosa'. |
| 224360. 'Speks Brilliant'. | 224362. 'W. E. Grumbleton'. |

224363 to 224393. RHODODENDRON (hybrids).

'Ghent' × 'Rustica Flore Pleno'

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| 224363. 'Adolphe'. | 224379. 'Graf Alfred von Nipperg'. |
| 224364. 'Agatha'. | 224380. 'Heroine Plena'. |
| 224365. 'Altaclarensis'. | 224381. 'Il Tasso'. |
| 224366. 'Ariadne'. | 224382. 'Joseph Baumann'. |
| 224367. 'Bijou de Amateurs'. | 224383. 'Josephine Klinger'. |
| 224368. 'Byron'. | 224384. 'Mrs. H. White'. |
| 224369. 'Chieftan'. | 224385. 'Norma'. |
| 224370. 'Coccinea grandiflora'. | 224386. 'Nosegay'. |
| 224371. 'Coccinea major'. | 224387. 'Oscar'. |
| 224372. 'Crimson King'. | 224388. 'Phidias'. |
| 224373. 'Cuprea pulchella'. | 224389. 'Phoebe'. |
| 224374. 'Daviesii'. | 224390. 'Prince Henry des Bays Bas'. |
| 224375. 'Decus Hortorum'. | 224391. 'Rembrandt'. |
| 224376. 'Electa'. | 224392. 'Taylors Red'. |
| 224377. 'Emma'. | 224393. 'Vulcan'. |
| 224378. 'Gen. Trauff'. | |

224394 to 224397. RHODODENDRON OCCIDENTALE (hybrids).

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| 224394. 'Delicatissima'. | 224396. 'Graciosa'. |
| 224395. 'Exquisita'. | 224397. 'Rosea'. |

224398 to 224404. SACCHARUM (hybrids). Poaceae. Sugarcane.

From Taiwan. Cuttings received from an unknown donor. Received Mar. 22, 1955.

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| 224398. 39-1928. | 224402. 39-1952. |
| 224399. 39-1931. | 224403. 39-1969. |
| 224400. 39-1939. | 224404. 39-1991. |
| 224401. 39-1940. | |

224405 to 224452.

From Washington. Seeds at the Regional Plant Introduction Station, Pullman. Numbered Mar. 23, 1955. From Paul G. Smith, University of California, Berkeley, Calif. Original sources as indicated.

224405 to 224439. CAPSICUM FRUTESCENS L. Solanaceae.

Redpepper.

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| 224405. No. 1534. Mexico. | 224413. No. 1559. Trinidad. |
| 224406. No. 1542. Mexico. | 224414. No. 1570. Costa Rica. |
| 224407. No. 1544. Mexico. | 224415. No. 1572. Costa Rica. |
| 224408. No. 1546. Mexico. | 224416. No. 1574. Costa Rica. |
| 224409. No. 1548. Mexico. | 224417. No. 1578. Nicaragua. |
| 224410. No. 1549. Mexico. | 224418. No. 1579. Nicaragua. |
| 224411. No. 1552. Mexico. | 224419. No. 1580. Nicaragua. |
| 224412. No. 1555. Bolivia. | 224420. No. 1581. Nicaragua. |

224405 to 224452—Continued**224405 to 224439—Continued**

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| 224421. No. 1582. Nicaragua. | 224431. No. 1642. Costa Rica. |
| 224422. No. 1584. Nicaragua. | 224432. No. 1645. Guatemala. |
| 224423. No. 1588. Costa Rica. | 224433. No. 1653. Guatemala. |
| 224424. No. 1604. Costa Rica. | 224434. No. 1654. Guatemala. |
| 224425. No. 1613. Costa Rica. | 224435. No. 1657-2. Cuba. |
| 224426. No. 1615. Costa Rica. | 224436. No. 1710. Mexico. |
| 224427. No. 1618. Ecuador. | 224437. No. 1712. Mexico. |
| 224428. No. 1625. Costa Rica. | 224438. No. 1713. Mexico. |
| 224429. No. 1639. Guatemala. | 224439. No. 1540. Nicaragua. |
| 224430. No. 1640. Guatemala. | |

224440. CAPSICUM PENDULUM Willd. Solanaceae.

- No. 1595. Costa Rica.
224441. CAPSICUM sp.
No. 1496. Venezuela.
224442. CAPSICUM sp.
No. 1537. Nicaragua.
224443. CAPSICUM sp.
No. 1541. Bolivia.
224444. CAPSICUM sp.
No. 1554. Bolivia.
224445. CAPSICUM sp.
No. 1556. Bolivia.
224446. CAPSICUM sp.
No. 1575. Costa Rica.
224447. CAPSICUM sp.
No. 1601. Costa Rica.
224448. CAPSICUM sp.
No. 1606. Costa Rica.
224449. CAPSICUM sp.
No. 1633. Peru.
224450. CAPSICUM sp.
No. 1646. Guatemala.
224451. CAPSICUM sp.
No. 1650. Guatemala.
224452. CAPSICUM sp.
No. 1655. Guatemala.

224453 and 224454. RAUVOLFIA SELLOWII Muell.-Arg. Apocynaceae. Devilpepper.

From Brazil. Presented by the Instituto Agronomico do Estado de São Paulo, Campinas, São Paulo. Received Mar. 23, 1955.

224453. Cuttings.

224454. Seeds.

- 224455.** *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**
From Germany. Scions presented by Christian Fey, Meckenheim (Köln). Received
Mar. 23, 1955.
'James Grieve'.
- 224456.** *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**
From Tanganyika. Seeds presented by the Empire Cotton Growing Corporation,
London, England. Received Mar. 23, 1955.
Grown at Ukiriguvu.
- 224457 to 224463.** *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**
From Sweden. Tubers presented by the Swedish Seed Association, Svalof. Received
Mar. 24, 1955.
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| 224457. 'Anna'. | 224461. L 54/58. |
| 224458. 'Elsa'. | 224462. L 54/59. |
| 224459. 'Eva'. | 224463. L 54/60. |
| 224460. 'Imperia'. | |
- 224464 to 224511.** *LUPINUS LUTEUS* L. Fabaceae. **European yellow lupine.**
From the Netherlands. Seeds presented by the Stichting voor Plantenveredeling
Wageningen. Received Mar. 24, 1955.
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| 224464. 7 7/52. | 224489. 1026 842/52. |
| 224465. 12 kr.56. | 224490. 1035 V 386/52. |
| 224466. 16 kr.62. | 224491. 1052 1000/52. |
| 224467. 17 kr.66. | 224492. 1077 542/52. |
| 224468. 18 kr.67. | 224493. 1079 542/52. |
| 224469. 41 44/52. | 224494. 1083 550/52. |
| 224470. 51 kr.110. | 224495. 1086 567/52. |
| 224471. 58 kr.125. | 224496. 1124 615/52. |
| 224472. 77 89/52. | 224497. 1165 713/52. |
| 224473. 228 kr.1972. | 224498. 1166 713/52. |
| 224474. 229 kr.1976. | 224499. 1219 710/52. |
| 224475. 276 kr.281. | 224500. 1301 4/52. |
| 224476. 589 231/52. | 224501. 1308 H 32/52. |
| 224477. 602 238/52. | 224502. 1316 H 48/52. |
| 224478. 606 241/52. | 224503. 1415 B 1581/52. |
| 224479. 610 242/52. | 224504. 1417 B 1518/52. |
| 224480. 625 253/52. | 224505. 1432 NL 71/52. |
| 224481. 626 253/52. | 224506. 1796 1231/52. |
| 224482. 627 254/52. | 224507. 1799 1233/52. |
| 224483. 771 403/52. | 224508. 1814 1239/52. |
| 224484. 772 404/52. | 224509. 1823 1283/52. |
| 224485. 795 447/52. | 224510. 1886. |
| 224486. 798 449/52. | 224511. 1893. |
| 224487. 1021 831/52. | |
| 224488. 1025 837/52. | |

224512 to 224514. ILEX OPACA Ait. Aquifoliaceae. American holly.

From Maryland. Plants growing at the United States Plant Introduction Station, Glenn Dale. Numbered Mar. 28, 1955.

Originally presented by Dr. F. G. Meyer, Missouri Botanic Garden, St. Louis, Mo. Feb. 24, 1954.

224512. 'Meyer No. 3555'. From Stoddard County, Mo.

224513. 'Meyer No. 3555-C'. From Stoddard County, Mo.

224514. 'Meyer No. 3557'. From Piggot, Ark.

224515 and 224516.

From Japan. Plants presented by the Shikoku Agricultural Experiment Station, Kagawa, Shikoku. Received Mar. 29, 1955.

224515. RUBUS VERNUS Focke Rosaceae.

224516. RUBUS SPECTABILIS var. VERNUS Makino

224517 to 224520. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From Tanganyika. Seeds presented by the Coffee Research Station, Lyamungu, Moshi. Received Mar. 29, 1955.

224517. F. 840(II).

224519. H.66.

224518. H.1.

224520. 'Geisha'.

224521 to 224524. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

From Canada. Scions presented by the Dominion Experimental Farm, Summerland, British Columbia. Received Mar. 29, 1955.

224521. 'Sam'.

224523. 'Star'.

224522. 'Sparkle'.

224524. 'Sue'.

224525 and 224526.

From Japan. Seeds presented by the University of Tokyo, Tokyo. Received Mar. 30, 1955.

224525. ILEX MICROCOCCA Maxim. Aquifoliaceae.

Holly.

224526. ILEX ROTUNDA Thunb.

Holly.

224527 and 224528. VERNONIA ANTHELMINTICA Willd. Asteraceae. Kinkaoil ironweed.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Mar. 29, 1955.

224527. L.W. 939. From the Drug Research Laboratory, Jammu & Kashmir.

224528. From Solan (Simla Hills).

224529 to 224541 SACCHARUM (hybrids) Poaceae. Sugarcane.

From Indonesia. Cuttings presented by the Java Sugar Experiment Station, Pasuruan, Java. Received Mar. 29, 1955.

224529. 25 Oc 20 Kara-Kar-Awa (British Guiana).

224530. 30 Oc 15 Ketingan Tenggara.

224531. 24 Oc 63 Negros Purple.

224532. X Oc 22 Roppae Austr.

224533. 22 Oc 7 Tanimbar babor 2.

224534. 24 Oc 51 Teboe hitam Fort de Kock.

224535. 30 Oc 31 Teboe liti Oewis Tenggara.

224536. 25 Oc 15 Tofumapal (British Guiana).

224537. X Oc 11 Vulu Malakka S. W. M.

224529 to 224541—Continued

224538. 15 Oc 7 Woeloeng Sockodono.
 224539. 30 Oc 22.
 224540. 3067 P. O. J.
 224541. 3077 P. O. J.

224542 to 224546. VITIS RUPESTRIS Scheele Vitaceae. Grape.

From France. Cuttings presented by the Ecole Nationale d'Agriculture de Montpellier, Montpellier (Herault). Received Mar. 31, 1955.

224542. 'Violettes (Coudere)'. 224545. 'Mission'.
 224543. 'de Forthworth'. 224546. 'Violet' (Richter).
 224544. 'Metalleque'.

224547 to 224553.

From France. Scions presented by the Pepinieres G. Delbard, Malicorne per Commentary, (Allier). Received Mar. 31, 1955.

- 224547 to 224551. MALUS SYLVESTRIS Mill. Malaceae. **Apple.**
 224547. 'Boskoop Rouge'. 224550. 'Reine des Reinettes'.
 224548. 'Calville Blanc'. 224551. 'Transparent de croncels'.
 224549. 'Jeanne Hardy'.
 224552 and 224553. PYRUS COMMUNIS L. Malaceae. **Common pear.**
 224552. 'Beurre Giffard'.
 224553. 'Sucree Rosee' (Soucher 53-).

224554 to 224563. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From Iran. Seeds presented by the United States Operations Mission to Iran, Tehran. Received Mar. 31, 1955.

Collected near Ishfan.
 'Kharbooseh'.

224554. No. 1. 224559. No. 6.
 224555. No. 2. 224560. No. 7.
 224556. No. 3. 224561. No. 8.
 224557. No. 4. 224562. No. 9.
 224558. No. 5. 224563. No. 10.

224564. GOSSYPIUM ARBOREUM L. Malvaceae. Asiatic tree cotton.

From Uganda. Seeds presented by the Empire Cotton Growing Corporation, London. England. Received Mar. 3, 1955.

Originally from Madagascar.

224565. CAMELLIA SINENSIS (L.) Kuntze Theaceae. Tea.

From Maryland. Seeds planted at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 4, 1955.

Originally from Gopalpur Tea Estate, Copalbagan, Jalpaiguri, India.

Obtained through the McCormick Spice Company, Inc., Baltimore, Md.

224566 to 224570.

From Southern Rhodesia. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 4, 1955.

224566 to 224570—Continued

224566. *CYNODON* sp. Poaceae.

Col. No. 124. Tobacco Research Station, Salisbury. Plant tall with slender stems, long stolons and rhizomes; few seed heads; does not fire seriously; disease resistant. A desirable grazing type.

224567. *CYNODON* sp.

Col. No. 126. Tobacco Research Station, 10 miles south of Salisbury. Mar. 21, 1955. Plants to 4 feet high; stems coarse; stolons 15 to 20 feet long. Used to prevent soil erosion and as a cover crop preceding tobacco.

224568. *CYNODON* sp.

Col. No. 128. Tobacco Research Station, Salisbury. Mar. 21, 1955. Plants about 12 inches high, upright with some stolons; few seeds; fires to some extent.

224569. *CYNODON DACTYLON* (L.) Pers.

Bermudagrass.

Col. No. 129. Tobacco Research Station, Salisbury. Mar. 21, 1955. Fine-leaved, short; good sod type; spreads fairly rapidly.

224570. (Undetermined.)

Col. No. 127. Near Tobacco Research Station, Salisbury. Mar. 21, 1955. Plants about 12 inches high, vigorous; color dark green; no seed heads.

224571 to 224597.

From Ohio. Seeds at the Agricultural Experiment Station, Wooster. Numbered Apr. 4, 1955.

Varieties listed in Table V "Horticultural characters and reaction to two diseases of the *Lycopersicon* accessions in the North Central Region."

224571 to 224579. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

Tomato.

224571. Wooster 521314; 'Lindstrom 2387-2-1-4'.

224572. Wooster 541200; 'Rick 2-100'.

224573. Wooster 541203; 'Rick LA55'.

224574. Wooster 541206; 'Butler'.

224575. Wooster 541208; 'Butler'.

224576. Wooster 541212; 'Jenkins 234'.

224577. Wooster 541214; 'Dennett AP5'.

224578. Wooster 541217; 'P. A. Young G 1071 b'.

224579. Wooster 541295; 'Butler'.

224580. *LYCOPERSICON* (hybrid).

Tomato.

(*L. esculentum* × *pimpinellifolium*)

'Bohn 79532'.

224581 to 224597. *LYCOPERSICON ESCULENTUM* Mill.

Tomato.

224581. Wooster 541270; 'Bohn, Danmark 5056'.

224582. Wooster 541271; 'Bohn, Danmark 5057'.

224583. Wooster 541272; 'Bohn, Danmark 5061'.

224584. Wooster 541273; 'Bohn, Danmark 5074'.

224585. Wooster 541274; 'Bohn, Waltham Forcing 5059'.

224586. Wooster 541275; 'Bohn, Waltham Forcing 5060'.

224587. Wooster 541276; 'Bohn, Waltham Forcing 5069'.

224588. Wooster 541277; 'Bohn, Waltham Forcing 5075'.

224589. Wooster 491330; PI 148720 × PI 79532.

224590. Wooster 531267; 'Rick 2-69'.

224571 to 224597—Continued**224581 to 224597—Continued**

224591. Wooster 531268; 'Rick 2-171'.
 224592. Wooster 531270; 'Rick 2-84'.
 224593. Wooster 531271; 'Rick 2-137'.
 224594. Wooster 531272; 'Rick 16-9'.
 224595. Wooster 531273; 'Rick 2-185'.
 224596. Wooster 531285; 'Bishop K-50'.
 224597. Wooster 541251; 'Pollack 1025'.

224598 COFFEA ARABICA L. Rubiaceae.**Arabian coffee.**

From Kenya. Seeds presented by the Coffee Research Station, Ruiru. Received Apr. 4, 1955.

Harvested from plots at Makuyu.

K-7.

224599. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby Poaceae.

From Israel. Seeds presented by the Department of Agronomy, University of Arizona, Tucson, Ariz. Received Apr. 4, 1955.

Collected near Ruhama.

224600. PRUNUS AVIUM L. Amygdalaceae.**Sweet cherry.**

From Canada. Scions presented by the Dominion Experimental Station, Morden, Manitoba. Received Apr. 5, 1955.

'Coronation'.

224601. POA PRATENSIS L. Poaceae.**Kentucky bluegrass.**

From Germany. Seeds presented by Dr. Hans Leichum, Frankfurt-am-Main. Received Apr. 5, 1955.

224602 and 224603.

From Israel. Seeds presented by the Agricultural Research Station, Rehovoth. Received Apr. 5, 1955.

224602. PISTACIA X SAPORTAE Burnat. Anacardiaceae.

Collected at Safad, Galilee.

224603. SESAMUM INDICUM L. Pedaliaceae.**Sesame.**

Local variety.

224604. ORYZA SATIVA L. Poaceae.**Rice.**

From India. Seeds presented by the Rice Specialist, Hyderabad, Deccan, India. Received Apr. 5, 1955.

'Shala'.

224605. ORYZA SATIVA L. Poaceae**Rice.**

From Indonesia. Seeds presented by the Institute for Agricultural Research, Bogor. Received Apr. 5, 1955.

'Sigadis'.

224606 to 224608. SECALE CEREALE L. Poaceae**Rye.**

From Argentina. Seeds presented by the Instituto de Fitotecnia, Ministerio de Agricultura, Buenos Aires. Received Apr. 5, 1955.

224606. 'AC 1310-5/51'.

224607. 'AC 1628-4/54'.

224608. 'AC 1645-5/54'.

- 224609 to 224611.** *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**
From Finland. Scions presented by Dr. Toivo Rautavaara, Helsinki. Received Apr. 6, 1955.
- 224609.** 'Gallen'.
224610. 'Huvitus'.
224611. 'Sokeri Miron'.
- 224612.** *INGA* sp. Mimosaceae.
From Puerto Rico. Seeds presented by the Federal Experiment Station, Mayaguez. Received Apr. 6, 1955.
- 224613.** *HORDEUM* sp. Poaceae.
From Germany. Seeds presented by Anheuser-Busch, Inc., St. Louis, Mo. Received Apr. 6, 1955.
'Heines Haisa II'.
- 224614.** *BROMUS WILLDENOWII* Kunth Poaceae. **Rescuegrass.**
From Uruguay. Seeds presented by the Instituto Fitotecnica La Estanzuela, Colonia. Received Apr. 6, 1955.
L. E. 157/49.
- 224615 to 224622.**
From Sweden. Seeds presented by the Weibull Plant Breeding Institute, Landskrona. Received Apr. 7, 1955.
- 224615 and 224616.** *PHELEUM PRATENSE* L. Poaceae. **Timothy.**
224615. 'Weibull's Original Kampe II'.
224616. T 41.
- 224617.** *TRIFOLIUM HYBRIDUM* L. Fabaceae. **Alsike clover.**
'Weibull's Original Tetraploid Alsike'.
- 224618 to 224620.** *TRIFOLIUM PRATENSE* L. **Red clover.**
224618. 'Weibull's Original Resistenta'.
224619. 'R II Tetraploid'.
224620. 'R 28 Tetraploid'.
- 224621 and 224622.** *TRIFOLIUM REPENS* L. **Whiteclover.**
224621. 'Weibull's Original Nora'.
224622. 'Weibull's Original Robusta'.
- 224623.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
From France. Seeds presented by A. Rousset & Fils, Chatendum, Paris. Received Apr. 7, 1955.
'Lucerne Socheville'.
- 224624 and 224625.** *LALLEMANTIA IBERICA* (Bieb.) Fisch. & Mey.
Menthaceae.
From Germany. Seeds presented by the Institut vor Kulturpflanzenforschung, Gatersleben. Received Apr. 7, 1955.
- 224624.** LaL 1/54. Boranic Garden, Munich.
224625. LaL 2/53. Botanic Garden, Rostock.
- 224626 to 224630.** *ORYZA SATIVA* L. Poaceae. **Rice.**
From Thailand. Seeds presented by the Rice Department, Bangkok. Received Apr. 7, 1955.

224626 to 224630—Continued

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|-----------------------|-----------------------|
| 224626. No. 1. | 224629. No. 4. |
| 224627. No. 2. | 224630. No. 5. |
| 224628. No. 3. | |

224631 to 224646.

From Morocco. Seeds presented by the Institut Scientifique Cherifien, Rabat.
Received Apr. 8, 1955.

- 224631.** ANTHYLLIS HAMOSA Desf. Fabaceae.
No. 1654.
- 224632.** ANTHYLLIS VULNERARIA L.
No. 1645.
- 224633.** ERAGROSTIS ATROVIRENS var. HESPERIDUM Emb. & Maire Poaceae.
No. 242.
- 224634.** LATHYRUS ARTICULATUS L. Fabaceae. **Peavine.**
No. 1809.
- 224635.** LOTUS MAROCCANUS Ball Fabaceae. **Trefoil.**
No. 1658.
- 224636.** LUPINUS PILOSUS Murr. Fabaceae.
No. 1442.
- 224637.** ONOBRYCHIS SAXATILIS var. ATLANTICA Batt. & Maire Fabaceae.
No. 1772.
- 224638.** ONONIS COSSONIANA Boiss. Fabaceae.
No. 1553.
- 224639.** PSORALEA AMERICANA var. POLYSTACHYA (Poir.) P. Cout. Poaceae.
No. 1682.
- 224640.** STIPA GIGANTEA var. MAROCCANA Pau & Font-Quer Poaceae. **Needlegrass.**
No. 137.
- 224641.** STIPA RETORTA Cav. **Needlegrass.**
No. 143.
- 224642.** TRIFOLIUM ANGUSTIFOLIUM L. Fabaceae. **Clover.**
No. 1600.
- 224643.** TRIFOLIUM BOCCONEI Savi **Clover.**
No. 1621.
- 224644.** TRIFOLIUM CAMPESTRE Schreb. **Clover.**
No. 1643.
- 224645.** TRIFOLIUM MARITIMUM Huds. **Clover.**
No. 1612.
- 224646.** TRIFOLIUM TOMENTOSUM L. **Woolly clover.**
No. 1628.

- 224647.** SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

From Nigeria. Seeds presented by the University College, Ibadan. Received Apr. 8,
1955. Grown at Samaru.

224648. DAHLIA sp. Asteraceae.

From Costa Rica. Collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 8, 1955.

'Riega Bagazo'.

224649 to 224656. ORYZA SATIVA L. Poaceae.**Rice.**

From Japan. Seeds presented by the Hokkaido Agricultural Experiment Station, Hokkaido. Received Apr. 8, 1955.

224649. 'Eikou'.

224653. 'Okute-Eikou'.

224650. 'Hugisaka-5'.

224654. 'Terunishiki'.

224651. 'Ishikari-Shirage'.

224655. 'Tominishiki'.

224652. 'Nakate-Eikou'.

224656. 'Toyohikari'.

224657 to 224660 TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Apr. 8, 1955.

224657. 'Doubbi'.

224659. 'Insignia'.

224658. 'Eden'.

224660. 'Rapier'.

224661 to 224663. SESAMUM INDICUM L. Pedaliaceae.**Sesame.**

From Libya. Seeds presented by the United States Operations Mission to Libya, Tripoli. Received Apr. 8, 1955.

224661. No. 45.

224662. No. 64A.

224663. Local.

224664 and 224665. ORYZA SATIVA L. Poaceae.**Rice.**

From Thailand. Seeds presented by the Rice Department, Bangkok. Received Apr. 8, 1955.

224664. 'Khaota Hang'.

224665. 'Nangmol'.

224666 and 224667. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

From Denmark. Seeds presented by Carl Jacobsensvej, Valby, Copenhagen. Received Apr. 8, 1955.

224666. Single cut (No. 05038).

224667. Double cut (No. 0685).

224668 to 224680.

From New York. Seeds at the Regional Plant Introduction Station, Geneva, Numbered Apr. 11, 1955.

224668. CUCUMIS SATIVUS L. Cucurbitaceae.

Cucumber.

'Kaga Husinari'. Originally from Korea. A selection having only pistillate flowers.

224669 and 224670. CUCURBITA MAXIMA Duchesne Cucurbitaceae. **Squash.**

224669. 'Bush Buttercup'. (New Hampshire.) Selected from an unknown P.I. number in 1938.

224670. 'Balkabagi'. Originally from Turkey. An orange turban squash.

224671. LESPEDEZA STIPULACEAE Maxim. Fabaceae.

From James F. A. Brannon, Fulton, N. Y.

224672. LESPEDEZA sp.

From James F. A. Brannon, Fulton, N. Y.

224668 to 224680—Continued

- 224673 and 224674.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**
224673. 'Mikado'. Originally from Uruguay.
224674. 'BV No. 5'. Very early breeding variety
- 224675.** *LYCOPERSICON ESCULENTUM* var. *CERASIFORME* (Dun.) A. Gray
 'X907W'. Originally from Mexico. Fruits cherry size. Late blight resistant.
- 224676.** *MALVA VERTICILLATA* L. Malvaceae.
 'Futter malva'. Originally from the Jardin Botanique, Nancy, France. Selection valued for forage, particularly for silage.
- 224677.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
 'Delwicke Early Scotch'. Very vigorous; medium maturity; many double pods; heavy set. Selection from P.I. 222534.
- 224678 and 224679.** *PRUNUS DOMESTICA* L. Amygdalaceae. **Common plum.**
 Originally from Skierniewice. Poland.
224678. A very hardy white plum.
224679. A hardy prune.
- 224680.** *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**
 'Kersey'. Originally from England. A persistent type with abundant foliage; recovers rapidly after grazing.
- 224681.** *GARCINIA SPICATA* (Wight & Arn.) Hook F. Clusiaceae.
 From Maryland. Plant growing at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 11, 1955.
 Originally from Japan.
- 224682 and 224683.**
 From Guatemala. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 11, 1955.
- 224682.** *ABUTILON* sp. Malvaceae.
 Originally from south of Tekax.
- 224683.** *CORCHORUS SILIQUOSUS* L. Tiliaceae.
 From Managua, Nicaragua.
- 224684 to 224690.**
 From Burma. Seeds presented by the Agricultural Attache, American Embassy, Rangoon. Received Apr. 11, 1955.
- 224684.** *BETA VULGARIS* L. Chenopodiaceae **Common beet.**
- 224685.** *BRASSICA JUNCEA* (L.) Coss. Brassicaceae. **Chinese mustard.**
- 224686.** *BRASSICA PEKINENSIS* (Lour.) Rupr. **Petsai.**
- 224687.** *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**
- 224688.** *CUCUMIS MELO* var. *RETICULATUS* Naud. Cucurbitaceae.
- 224689.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
- 224690.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
- 224691 to 224699.**
 From Northern Rhodesia. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 12, 1955.
 Collected Mar. 28-29, 1955.

224691 to 224699—Continued

224691 to 224696. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

224691. Col. No. 167. Growing on grounds of Victoria Falls Hotel. Lawn type; sod dense; prolific seeder.

224692. Col. No. 168. Near Victoria Falls Hotel. Hay and grazing type; tall growing, with long stolons and vigorous rootstock.

224693. Col. No. 170. Mount Makula Experiment Station. Tall-growing with long stolons and rhizomes; very vigorous. Wild among other grasses in wet soil area.

224694. Col. No. 173. Fort Jamison. Hardy lawn grass; sod dense.

224695. Col. No. 174. Fort Jamison. Tall-growing; used for pasture or cut for hay.

224696. Col. No. 175. Mount Makula Experiment Station. Hay and grazing type. Vigorous growing, tall.

224697. *DIGITARIA MILANJIANA* (Rendle) Stapf Poaceae.

Col. No. 172. Mount Makula Experiment Station. Plant large, stoloniferous; well adapted to poor sandy soil.

224698. *ERAGROSTIS* sp. Poaceae.

Col. No. 169. Mount Makula Experiment Station, Lusaka.

224699. (Undetermined.)

Col. No. 176. Wild, stoloniferous grass. On low wet ground at Mount Makula Experiment Station.

224700 to 224746.

From Mexico. Seeds collected by Donovan S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 12, 1955.

224700 to 224705. *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**

224700. Col. No. 22. Ribera de El Amatal, Cupia, Chiapas. Mar. 5, 1955.

224701. Col. No. 23. Acala, Chiapas. Mar. 5, 1955.

224702. Col. No. 24. Acala, Chiapas. Mar. 5, 1955. Cultivated near Puerto, Mexico.

224703. Col. No. 25. Market Acala, Chiapas. Mar. 5, 1955. Purchased in shop.

224704. Col. No. 26. Acala, Chiapas. Mar. 5, 1955. Fibers exceptionally long.

224705. Col. No. 36. Comitan, Chiapas. Mar. 7, 1955. Grown at San Bartolome.

224706. *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

Col. No. 37. 'Chili Blanco'. Market, Comitan, Chiapas. Mar. 7, 1955.

224707. *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 1. Rancho de Esperanza, two miles northeast of Chiapas, on Camino Nacional, Tuxtla Gutierrez San Cristobal, Chiapas. Mar. 3, 1955. Plant growing in spiny thickets; soil sandy.

224708. *DIOSCOREA SPICULIFLORA* Hemsl.

Yam.

Col. No. 3. Eight miles from Tuxtla Gutierrez on road to Villa Flores, near Suchiapa, Chiapas. Mar. 3, 1955. Growing in spiny shrub thickets on rocky slope.

224709. *LYCOPERSICON* (hybrid). Solanaceae.

Tomato.

Col. No. 4. *L. pimpinellifolium* × *esculentum*. Market, San Cristobal, Chiapas. Mar. 4, 1955. Wild type; growing along river bank. Very disease resistant; fruits about one-half inch in diameter.

224700 to 224746—Continued

224710. LYCOPERSICON ESCULENTUM Mill. **Tomato.**

Col. No. 45. 'Tomatillo'. Teopisca, Chiapas. Mar. 7, 1955. Fruits about one-half inch in diameter.

224711. PHASEOLUS COCCINEUS L. Fabaceae. **Scarlet runner bean.**

Col. No. 6. 'Botil'. Market, San Cristobal, Chiapas. Mar. 4, 1955.

224712 and 224713. PHASEOLUS LUNATUS L. **Lima bean.**

224712. Col. No. 27. 'Patschete'. Acala, Chiapas. Mar. 5, 1955.

224713. Col. No. 42. 'Pacle'. Market, Comitan, Chiapas. Mar. 7, 1955.

224714 to 224746. PHASEOLUS VULGARIS L. **Common bean.**

224714 to 224728. Market, San Cristobal, Chiapas. Mar. 4, 1955.

224714. Col. No. 7. 'Bolita'. Very disease resistant.

224715. Col. No. 8. 'Agua de Leon'.

224716. Col. No. 9. 'Frijol Blanco'.

224717. Col. No. 10. 'De Vega'. Bush type from low lands.

224718. Col. No. 11. 'De Vara'. Large vine.

224719. Col. No. 12. 'Sarado'.

224720. Col. No. 13. 'Frijol Blanco'.

224721. Col. No. 14. 'Frijolito rosadito'.

224722. Col. No. 15. 'Bolito Negro'.

224723. Col. No. 16. 'Frijol de Vara'.

224724. Col. No. 17. 'Bolita'.

224725. Col. No. 18. 'Colorado'.

224726. Col. No. 19. 'Frijol bayito'.

224727. Col. No. 20. 'Roja'.

224728. Col. No. 21. 'Rosado'.

224729. Col. No. 28. 'Veracruzano'. Acala, Chiapas. Mar. 5, 1955.

224730 to 224741. Market, Comitan, Chiapas. Mar. 7, 1955.

224730. Col. No. 29. 'Gato'.

224731. Col. No. 30. 'Blanco de Vara'.

224732. Col. No. 36. 'Gato'.

224733. Col. No. 32. 'Gato'.

224734. Col. No. 33. 'Bayo de Enredo'.

224735. Col. No. 34.

224736. Col. No. 35. 'Colorado de Suelo'.

224737. Col. No. 38. 'Blanco Bolita'.

224738. Col. No. 39. 'Frijol de Enredo'.

224739. Col. No. 40. 'Frijol de Enredo'.

224740. Col. No. 43. 'Frijol Negro de Enredo'.

224741. Col. No. 44. 'Frijol Colorado de Enredo'.

224742 to 224746. Market Teopisca, Chiapas. Mar. 7, 1955.

224742. Col. No. 46. 'Vareton'. Climber; very resistant to diseases and drought.

224743. Col. No. 47. 'Municion'. Bush; early variety.

224700 to 224746—Continued**224714 to 224746—Continued****224742 to 224746—Continued**

224744. Col. No. 48. 'Frijol Colorado de Tierra'. Bush; early variety.

224745. Col. No. 49. 'Frijol Negro'.

224746. Col. No. 50. 'Frijol de Vara'.

224747. JUNIPERUS DRUPACEA Labill. Pinaceae Syrian juniper.

From Greece. Seeds presented by the Ministry of Agriculture, Athens. Received Apr. 13, 1955.

Collected Oct. 20, 1954 in Mavrila, Prastos Forest, on the northwest slope, Kynouria District. Elevation 3,100 feet.

224748. ELEOCHARIS DULCIS (Burm. f.) Henschel Cyperaceae. Matai.

From Indonesia. Corms presented by the Agricultural Research Station, Bogor. Received Apr. 4, 1955.

224749 and 224750. HORDEUM VULGARE L. Poaceae. Barley.

From Indonesia. Seeds presented by F. P. Hubert, Foreign Operations Administration, American Embassy, Djakarta. Received Apr. 13, 1955. From Dieng, near Wonosobo, Central Java. Elevation 6,600 feet.

224749. No. 1. Heads short-awned.

224750. No. 2. Heads long-awned.

224751. SECALE VAVILOVII Grossh. Poaceae.

From Australia. Seeds presented by the Commonwealth Scientific Research Organization, Canberra. Received Apr. 13, 1955. Obtained originally from the Botanic Garden at Erevan, Armenia, Union of Soviet Socialist Republic in 1946.

224752 to 224756.

From Sweden. Seeds presented by the Sveriges Utsadesforenings Vallvaxtavdelning. Received Apr. 14, 1955.

224752. LOLIUM sp. Poaceae.

'No. Sv. 02010'.

224753 to 224756. TRIFOLIUM PRATENSE L. Fabaceae.

Red clover.

224753. 'Merkur-2n'.

224755. Sv. 034.

224754. 'Silo-2n'.

224756. Sv. 065-4n.

224757 to 224759.

From Indonesia. Cuttings presented by the Foreign Operations Administration, General Agricultural Research Station, Bogor. Received Apr. 14, 1955.

224757. PIPER CUBEDA L. f. Piperaceae.

Cubeb pepper.

224758 and 224759. PIPER NIGRUM L.

Black pepper.

224758. 'Bulok Belantung'.

224759. 'Lada Lampung'.

224760 to 224762.

From Austria. Seeds presented by the Tobacco Breeding Station, Austrian Tobacco Monopoly, Forstenfeld. Received Apr. 15, 1955.

224760. CANNABIS SATIVA L. Moraceae.

Hemp.

'Bols. Hemp 2'. Origin in Northern Europe. Bred by individual selection during five generations.

224760 to 224762—Continued

224761. *CAPSIUM FRUTESCENS* L. Solanaceae. **Redpepper.**

'Bols. Milk pepper'. From East Europe. Constant hybrid between two local varieties.

224762. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

'Bols. Sweet Melon No. 8'. Originally from Hungary; inbred 2 year.

224763 to 224767.

From Brazil. Seeds presented by Paulo Nogueira-Neto, Sao Paulo. Received Apr. 15, 1955.

224763. *PASPALUM DILATATUM* Poir. Poaceae. **Dallis grass.**

'Capim Australiano'.

224764. *PASPALUM GRISEUM* Hack.

'Capim Milha Branco'.

224765. *PASPALUM MALACOPHYLLUM* Trin.

'Capim Milha Roxo'.

224766. *PASPALUM MARITIMUM* Trin.

'Capim Genegibre'.

224767. *PASPALUM NOTATUM* Fluegge **Bahiagrass.**

'Grama De Batatais'.

224768. *HEMIPTOLEA DAVIDII* (Hance) Planch. Ulmaceae.

From Maryland. Plant growing at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 18, 1955. Origin unknown.

224769 and 224770.

From New York. Seeds at the Regional Plant Introduction Station, Geneva. Numbered Apr. 18, 1955.

224769. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

Received as var. conomon; place of publication not found. Small, skin yellow, smooth; flesh white, sweet; matures in 68 days. Valuable as parent in breeding. Originally from Korea.

224770. *CUCUMIS MELO* var. *INODORUS* Naudin.

'Jaune Canari Honeydew'. Originally from Africa. Large, yellow, good quality; matures in 90 to 100 days. Valuable in breeding.

224771. *SORGHUM VULGARE* Pers. Poaceae.

From Peru. Seeds presented by the American Embassy, Lima. Received Apr. 18, 1955. 'Midland Milo'.

224772 to 224774. *RAUVOLFIA VOMITORIA* Afzel. Apocynaceae.

Devilpepper.

From the Belgian Congo. Cuttings presented by the Belgian Congo Agronomy Institute, Kisantu. Received Apr. 19, 1955.

224772. No. 1.

224773. No. 2.

224774. No. 3.

224775. *HORDEUM* sp. Poaceae.

From Denmark. Seeds from an unknown donor, Copenhagen. Received Apr. 19, 1955.

224776 to 224778.

From Germany. Seeds presented by the Deutsche Saatveredelung, Landsberger, Strabe. Received Apr. 19, 1955.

224776. *AGROSTIS ALBA* L. Poaceae.

Redtop.

224777. *DACTYLIS GLOMERATA* L. Poaceae.

Orchardgrass.

224778. *POA PRATENSIS* L. Poaceae.

Kentucky bluegrass.

224779. *CARICA CAULIFLORA* Jacq. Caricaceae.

From Honduras. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 19, 1955. From Guaymas.

224780. *SOLANUM TUBEROSUM* L. Solanaceae.

Potato.

From Costa Rica. Tubers presented by the Institute Inter-Americano de Ciencias Agricolas, Turrialba. Received Apr. 22, 1955. 'Papa Guetar'.

224781 and 224782.

From Mexico. Seeds presented by the Instituto de Investigacion de Zonas Deserticas, Universidad Autonoma, San Luis Potosi.

Received Apr. 20, 1955.

224781. *ZINNIA* sp. Asteraceae.

No. 1.

224782. *ZINNIA* sp.

No. 2.

224783 and 224784.

From Mexico. Seeds collected by Donovan S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 20, 1955.

224783. *PHASEOLUS DUMOSUS* Macf. Fabaceae.

No. 7a. Market, San Cristobal, Chiapas. Seeds brownish red.

224784. *PHASEOLUS COCCINEUS* L.

Scarlet runner bean.

Col. No. 41. Market, Comitán, Chiapas. Seeds black.

224785 to 224788. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

From Spain. Seeds presented by the Agricultural Attache, American Embassy, Madrid. Received Apr. 20, 1955.

Obtained from various seed houses in Valencia.

224785. 'Cuatretondin Amarillo'.

224787. 'Punonet' (Alcacer).

224786. 'Onteniente Amarillo'.

224788. 'Tendres-Puig'.

224789. *BROMUS TRINII* Desv. Poaceae.

Chilean brome.

From Chile. Seeds presented by the Agricultural Experiment Station, Fundo "La Vega," Paine. Received Apr. 20, 1955.

224790. *ZOYSIA MATRELLA* (L.) Merr. Poaceae.

Manilagrass.

From Nicaragua. Stolons presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received Apr. 5, 1955.

'Stan No. 10'.

224791 to 224940. *ORYZA SATIVA* L. Poaceae.

Rice.

From Japan. Seeds presented by the National Institute of Agricultural Science, Hiratsuka, Kanagawa. Received Apr. 20, 1955.

224791 to 224940—Continued

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|---------------------------------|-----------------------------------|
| 224791. 'Akikawa 44'. | 224833. 'Kinki 47'. |
| 224792. 'Aimasari'. | 224834. 'Kinugasawase 121'. |
| 224793. 'Akage'. | 224835. 'Kishinriki'. |
| 224794. 'Adebono'. | 224836. 'Kotobukimochi'. |
| 224795. 'Asahi 1'. | 224837. 'Kurobe 1'. |
| 224796. 'Asahi-Sen'. | 224838. 'Kuro-Mochi 22'. |
| 224797. 'Ayashi 1'. | 224839. 'Kanto 51'. |
| 224798. 'Benisengoku'. | 224840. 'Mihonishiki'. |
| 224799. 'Benkei'. | 224841. 'Mitsuryu-ine'. |
| 224800. 'Bonsai-ine'. | 224842. 'Mogami-Mochi'. |
| 224801. 'Chikanari 2'. | 224843. 'Mubo-Aikoku'. |
| 224802. 'Chu-Kame'. | 224844. 'Murasaki-ine'. |
| 224803. 'Daikoku-Wase'. | 224845. 'Murasaki-Koyabozu'. |
| 224804. 'Fukoku'. | 224846. 'Murasaki-Muyozetsu-ine'. |
| 224805. 'Fukubozu'. | 224847. 'Naguraho'. |
| 224806. 'Fusaku-Shirazu-Sai 1'. | 224848. 'Nakasengoku'. |
| 224807. 'Futamikawa'. | 224849. 'Nawashiro-ine 22'. |
| 224808. 'Gaisen-Mochi'. | 224850. 'Norin 1'. |
| 224809. 'Ginbozu-banzei'. | 224851. 'Norin 5'. |
| 224810. 'Ginbozu-chusei'. | 224852. 'Norin 6'. |
| 224811. 'Hashiri-bozu'. | 224853. 'Norin 8'. |
| 224812. 'Haruta-Asahi'. | 224854. 'Norin 10'. |
| 224813. 'Hatsunishiki'. | 224855. 'Norin 11'. |
| 224814. 'Hatsushimo'. | 224856. 'Norin 12'. |
| 224815. 'Hattan 10'. | 224857. 'Norin 14'. |
| 224816. 'Hayanorin'. | 224858. 'Norin 16'. |
| 224817. 'Hayashio'. | 224859. 'Norin 17'. |
| 224818. 'Hikari'. | 224860. 'Norin 18'. |
| 224819. 'Hikotaro-Mochi'. | 224861. 'Norin 19'. |
| 224820. 'Hirai 1'. | 224862. 'Norin 20'. |
| 224821. 'Ishikari-shiroge'. | 224863. 'Norin 21'. |
| 224822. 'Hirayana'. | 224864. 'Norin 22'. |
| 224823. 'Hokuriku 11'. | 224865. 'Norin 23'. |
| 224824. 'Hosakae'. | 224866. 'Norin 24'. |
| 224825. 'Kagawa 35'. | 224867. 'Norin 25'. |
| 224826. 'Kairyō-Akikoku'. | 224868. 'Norin 28'. |
| 224827. 'Kamarirazu'. | 224869. 'Norin 29'. |
| 224828. 'Kameji'. | 224870. 'Norin 32'. |
| 224829. 'Kamenoo 1'. | 224871. 'Norin 33'. |
| 224830. 'Kanto 11'. | 224872. 'Norin 35'. |
| 224831. 'Kinai-Chu 74'. | 224873. 'Norin 36'. |
| 224832. 'Kinki 25'. | 224874. 'Norin 37'. |

224791 to 224940—Continued

224875. 'Norin 39'.	224908. 'Shinano-Mochi 3'.
224876. 'Norin 41'.	224909. 'Shin-Ishijiro'.
224877. 'Norin 44'.	224910. 'Shinriki 11'.
224878. 'Norin 48'.	224911. 'Shinzan'.
224879. 'Norin 49'.	224912. 'Shirogane'.
224880. 'Norin 50'.	224913. 'Sodairyu-ine'.
224881. 'Norin 51'.	224914. 'Taisen'.
224882. 'Obanazawa 1'.	224915. 'Takanenishiki'.
224883. 'Oba-so'.	224916. 'Takara'.
224884. 'Oita-Mii-120'.	224917. 'Takeda-Wase'.
224885. 'Omachi'.	224918. 'Tamasari 1'.
224886. 'Ou-188'.	224919. 'Tanginbozu'.
224887. 'Rikuto-Norin 1'.	224920. 'Tareha-ine'.
224888. 'Rikuto-Norin 4'.	224921. 'Tarobe-Mochi'.
224889. 'Rikuto-Norin 9'.	224922. 'Tedoru-Wase'.
224890. 'Rikuto-Norin 19'.	224923. 'Tokushima-Banto 1'.
224891. 'Rikuto-Norin 24'.	224924. 'Tone-Wase'.
224892. 'Rikuu 20'.	224925. 'Tono 4'.
224893. 'Rikuu 132'.	224926. 'Toyama 3'.
224894. 'Saitama-Mochi 10'.	224927. 'Toyokuni'.
224895. 'Sakae'.	224928. 'Tozan 22'.
224896. 'San-In 17'.	224929. 'Tozo-Mochi'.
224897. 'Sanuki-Shinriki'.	224930. 'Tsurugiba'.
224898. 'Sasashigure'.	224931. 'Urasan 1'.
224899. 'Sekiyama'.	224932. 'Wase-Akioku 3'.
224900. 'Sensho'.	224933. 'Wase-Asahi'.
224901. 'Shiga-Asahi 27'.	224934. 'Wase-Esozima-Mochi'.
224902. 'Shiga-Habytae-Mochi'.	224935. 'Yachikogane'.
224903. 'Shimotsuki'.	224936. 'Yamanaka 2'.
224904. 'Shin 2'.	224937. 'Yonoyuki-Mochi'.
224905. 'Shin 5'.	224938. 'Yuubae'.
224906. 'Shin 7'.	224939. 'Zuiho'.
224907. 'Shinano 3'.	224940. 'Minori'.

224941. HABRANTHUS CARDINALIS (C. H. Wright) Sealy Amaryllidaceae.
From the Bahamas. Bulbs presented by the Department of Agriculture, Nassau.
Received June 3, 1955.

224942 and 224943. ORYZA SATIVA L. Poaceae. **Rice.**
From France. Seeds presented by the Laboratoire d'Agriculture, Montpellier
(Herauld). Received Apr. 19, 1955.

224942. 'Bellardone'.
224943. 'Eiko'.

224944. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
From New York. Seeds at the Regional Plant Introduction Station, Geneva. Num-
bered Apr. 21, 1955.

Segregated from red clover seeds received from Yugoslavia in 1953 under P.I.
193295.

- 224945.** *ZEA MAYS* L. Poaceae **Corn.**
 From Iowa. Seeds at the Regional Plant Introduction Station, Ames. Numbered Apr. 21, 1955.
 'Reid Yellow Dent'. From R. J. Friant, Agricultural Experiment Station, Morgantown, W. Va.; grown by Merrit Weakley, Williamsburg, W. Va.
- 224946 to 224957.** *RHODODENDRON* (hybrids). Ericaceae. **Azalea.**
 From Great Britain. Plants presented by John Waterer, Sons and Crisp, Limited, Bagshot, Surrey, England. Received Apr. 21, 1955.
- 224946 to 224952.** *RHODODENDRON* × *KOSTERIANUM* Schneid.
- 224946.** 'Afterglow'. **224950.** 'Hortulanus White'.
224947. 'Comte de Gomer'. **224951.** 'Mrs. L. J. Endtz'.
224948. 'Dr. M. Oosthoek'. **224952.** 'T. J. Seidel'.
224949. 'Frisia'.
- 224953 to 224956.** *RHODODENDRON* 'Ghent' × 'Rustica'
- 224953.** 'Bartholo Lazzari' **224955.** 'Rosette'.
224954. 'Milton'. **224956.** 'Thisbe'.
- 224957.** *RHODODENDRON* 'Occidentale' × 'Dainty'
- 224958.** *BEGONIA LINDLEYANA* Walp. Begoniaceae.
 From Mexico. Seeds presented by E. Sohns, Chiapas. Received Apr. 22, 1955.
- 224959.** *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**
 From Iran. Seeds presented by the Director General, Zahari. Received Apr. 22, 1955.
- 224960.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
 From Germany. Seeds presented by Kreis Hunfeld, Braun'sche Saatzuchtwirtschaft, Wehrda. Received Apr. 22, 1955.
 'Hildebrands Wehrdaer'.
- 224961.** *SIDA* sp. Malvaceae.
 From Costa Rica. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 22, 1955.
- 224962.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
 From Sweden. Seeds presented by W. Weibull A. B., Landskrona. Received Apr. 22, 1955.
 'Weibull's Original Tardus II Cocksfoot'.
- 224963 to 225012.**
- From Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 22, 1955. Collected February and March 1955.
- 224963.** *ATRIPLEX MUELLERI* Benth. Chenopodiaceae. **Saltbush.**
 Col. No. 92. 'Queensland Salt Bush'. Department of Agriculture, Pretoria, Transvaal.
- 224964.** *ATRIPLEX SEMIBACCATA* R. Br. **Australian saltbush.**
 Col. No. 88. 'Australian Salt Bush'. Department of Agriculture, Pretoria, Transvaal.
- 224965.** *CALOPOGONIUM MUCUNOIDES* Desv. Fabaceae.
 Col. No. 108. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia. Originally from Siam.

224963 to 225012—Continued**224966.** CASSIA sp.

Col. No. 103. Open woods 10 miles from Salisbury, Southern Rhodesia. Plants 12 to 18 inches high; flowers yellow.

224967. CENTROSEMA PUBESCENS Benth. Fabaceae.

Col. No. 109. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia. Originally from Siam.

224968. CHLORIS PYCNOTHRIX Trin. Poaceae.

Col. No. 47. Pretoria, Transvaal. Delicate plants to 12 inches high; stems flat. Not a high yielder.

224969. CROTALARIA sp. Fabaceae.

Col. No. 121. About 20 miles from Salisbury, Southern Rhodesia, along roadside. Woody perennial, to 8 feet high.

224970. DESMODIUM sp. Fabaceae.

Col. No. 99. Thirty miles east of Salisbury, Southern Rhodesia, along roadside. Plants to 6 feet high; seeds abundantly.

224971. DESMODIUM sp.

Col. No. 101. Ten miles from Salisbury, Southern Rhodesia, in open woods. Trailing to 4 feet long; seeds abundantly.

224972. DIGITARIA sp. Poaceae.

Col. No. 48. Pretoria, Transvaal. Two to three feet high; stoloniferous.

224973. ERIOCEPHALUS GLABER Thunb. Asteraceae.

Col. No. 90. 'Kapokbos'. Department of Agriculture, Pretoria, Transvaal.

224974. FESTUCA sp. Poaceae.

Col. No. 43. Pretoria, Transvaal. Vigorous, in dense clumps.

224975. FESTUCA sp.

Col. No. 44. Pretoria, Transvaal. Best vegetative yielder; very poor seeder; very dense.

224976 to 224981. GLYCINE JAVANICA L. Fabaceae.

224976. Col. No. 30. From the Botanic Gardens, Pretoria, Transvaal. Mar. 1, 1955.

224977 to 224981. Collected by Dr. L. E. Codd. March, 1955.

224977. Col. No. 31. 'Skukuza'. Pretoria, Transvaal.

224978. Col. No. 32. Blauwberg, Transvaal.

224979. Col. No. 34. Schoemanskloof, Transvaal.

224980. Col. No. 35. Southern Rhodesia.

224981. Col. No. 38. Southern Rhodesia.

224982. INDIGOFERA sp. Fabaceae.

Col. No. 95. Rocky hill, Salisbury, Southern Rhodesia. Small legume 12 to 18 inches high; produces an abundance of seeds.

224983. LOTONONIS BAINESII Baker Fabaceae.

Col. No. 36. Collected by Dr. L. E. Codd, Naboomspoint, Transvaal. Mar. 1, 1955.

224984. OSTEOSPERMUM MURICATUM E. Mey. Asteraceae.

Col. No. 89. 'Bermuda Brak'. From Department of Agronomy, Pretoria, Transvaal.

224963 to 225012—Continued

224985. PANICUM sp. Poaceae.

Col. No. 120. 'Bambatsi'. Henderson Experiment Station, Salisbury, Southern Rhodesia. Mar. 17, 1955. Plants to 5 feet high; used as temporary grazing crop.

224986. PANICUM sp.

Col. No. 70. Pretoria, Transvaal. Plants to 8 feet high; too coarse for hay.

224987. PANICUM sp.

Col. No. 61. Pretoria, Transvaal. Very fine-stemmed grass to 18 inches high; profuse seeder.

224988. PANICUM sp.

Col. No. 64. Pretoria, Transvaal. Upright bunchgrass with fine leaves and stems.

224989. PANICUM sp.

Col. No. 76. Pretoria, Transvaal. Plants to 4 feet high, fine-stemmed. A heavy yielder; makes good hay.

224990. PANICUM sp.

Col. No. 83. Pretoria, Transvaal. Fine-stemmed to 3 feet high. Dense cover and good yielder.

224991. PANICUM sp.

Col. No. 84. Pretoria, Transvaal. Sprawling bunch type; produces abundance of seeds.

224992. PANICUM sp.

Col. No. 85. Pretoria, Transvaal. Fine leaves and stems; to 3 feet high; rather dense cover.

224993. PASPALUM SCROBICULATUM L. Poaceae.

Col. No. 66. Pretoria, Transvaal. To 3 feet high, sprawling.

224994. PASPALUM sp.

Col. No. 67. Pretoria, Transvaal. Fine stems; a good yielder.

224995. PASPALUM sp.

Col. No. 68. Pretoria, Transvaal. To 4 feet high; lodges when grown.

224996. PASPALUM POLYSTACHYUM R. Br.

Col. No. 71. Pretoria, Transvaal.

224997. PENNISETUM TYPHOIDES (Burm.) Stapf & Hubbard

Col. No. 111. Tobacco Research Station, Salisbury, Southern Rhodesia.

224998. PENNISETUM sp.

Col. No. 62. Salisbury, Southern Rhodesia. Makes a dense growth to 3 feet high; stems fine.

224999. PENNISETUM sp.

Col. No. 63. Salisbury, Southern Rhodesia. Smaller with finer stems than P.I. 224998.

225000. PENTZIA INCANA (Thunb.) Kuntze Asteraceae. **Australian sheepbush.**

Col. No. 86. 'Goeie Karoo'. Department of Agriculture, Pretoria, Transvaal. Small shrub.

225001. PENTZIA SPHAEROCEPHALA DC.

Col. No. 87. Department of Agriculture, Pretoria, Transvaal.

225002. PSORALEA CANDICANS Eckl. & Zeyh. Fabaceae.

Col. No. 91. Department of Agriculture, Pretoria, Transvaal.

224963 to 225012—Continued

225003. *SESAMUM ALATUM* Thonn. Pedaliaceae.

Col. No. 107. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia.

225004. *SETARIA SPHACELATA* (Schum.) Stapf & Hubbard Poaceae. **Millet.**

Col. No. 73. Pretoria, Transvaal. Suckers at nodes; tough when mature.

225005. *SETARIA* sp.

Col. No. 78. Pretoria, Transvaal. Rather coarse, to 7 feet high; too heavy for hay.

225006. *SORGHUM SUDANENSE* (Piper) Stapf Poaceae **Sudangrass.**

Col. No. 119. Henderson Experiment Station, 15 miles from Salisbury, Southern Rhodesia. Grows to 8 feet high; used for temporary grazing and cover crop.

225007. *TEPHROSIA* sp. Fabaceae.

Col. No. 122. Growing among granite rocks about 15 miles from Salisbury, Southern Rhodesia. Plants about 2 feet high; seeding abundantly.

225008. *TERAMNUS* sp. Fabaceae.

Col. No. 29. Department of Agriculture, Pretoria, Transvaal.

225009. *TRAGUS BERTERONIANUS* Schult. Poaceae.

Col. No. 46. Pretoria, Transvaal. Wild grass to 10 inches high; heavy seeder; low vegetative yield.

225010. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 105. Ten miles from Salisbury near Tobacco Station, Southern Rhodesia. Running vine, to 8 feet long.

225011. *PANICUM* sp. Poaceae.

Col. No. 1. Near Accra, Gold Coast. Feb. 21, 1955. Plant to 4 feet high; palatable to livestock.

225012. *PENNISETUM CILIARE* (L.) Link Poaceae. **Buffelgrass.**

Col. No. 2. Near Accra, Gold Coast. Feb. 21, 1955. Plant about 2 feet high, semispreading; leaves harsh; seed heads upright.

225013 to 225015. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

From Australia. Scions presented by the Department of Agriculture, Sydney, New South Wales. Received Apr. 22, 1955.

225013. 'Ransom' GB 47-40.

225014. 'Regina' GB 69-33.

225015. 'Rival' GA 6/22.

225016 to 225025. HORDEUM VULGARE L. Poaceae. Barley.

From Japan. Seeds presented by the Ohara Institute for Agricultural Biology, Kurashiki. Received Apr. 22, 1955.

225016. 'Choshiro-hen'.

225021. 'Kuromugi No. 148'
(Spring type.)

225017. 'Ehimehadaka No. 1'.
(Spring type.)

225022. 'Oshichi-hen'.

225018. 'Henro-hen'.

225023. 'Suifu'.

225019. 'Kairy-bozu'. (Spring type.)

225024. 'Yanehadaka-hen'.

225020. 'Kogane-mugi'.

225025. 'Yanehadaka No. 2'.
(Spring type.)

- 225026. HORDEUM VULGARE L. Poaceae. Barley.**
From Turkey. Seeds presented by the Institute for Agricultural Research, Ankara.
Received Apr. 22, 1955.
'Takak' 157/37.
- 225027 to 225029. AVENA SATIVA L. Poaceae. Common oats.**
From Belgium. Seeds presented by the Station de Recherches de l'Etat pour l'Amelioration des Plantes de Grande Culture, Gembloux. Received Apr. 22, 1955.
225027. 'Altesse Jonne' F₇.
225028. 'Blanche du Vieux Moulin' L. 17.
225029. 'Esporr de Gembloux' C 5.
- 225030 and 225031. AVENA SATIVA L. Poaceae. Common oats.**
From Great Britain. Seeds presented by Dr. H. Hunter, Cambridge. Received Apr. 22, 1955.
225030. 'Argentine'.
225031. 'Argentine 12'.
- 225032 to 225037. HORDEUM VULGARE L. Poaceae. Barley.**
From Germany. Seeds presented by Saatzucht, Ferdinand Heinie, Hanover. Received Apr. 22, 1955.
225032. Heine Fl 084/53. 225035. Heine Fl 0254/53.
225033. Heine Fl 0125/53. 225036. Heine Fl 0299/53.
225034. Heine Fl 0211/53. 225037. Heine Fl 0367/53.
- 225038 to 225045. LINUM USITATISSIMUM L. Linaceae. Flax.**
From Ireland. Seeds presented by the Plant Breeding Division, The Manor Farm, Loughall County, Armagh. Received Apr. 25, 1955.
225038 to 225041. 'La Plata' 248/52.
225038. No. 1. 225040. No. 3.
225039. No. 2. 225041. No. 4.
225042 to 225045 Tx. 1.
225042. No. 5. 225044. No. 7.
225043. No. 6. 225045. No. 8.
- 225046. CYNODON sp. Poaceae.**
From Africa. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 25, 1955.
Col. No. 213. Golf course, Tabora, Tanganyika Territory. Apr. 15, 1955.
Possibly 'Starr' × common hybrid. Larger than common type and more tender than 'Starr'.
- 225047 to 225107. RHODODENDRON (hybrids). Ericaceae. Azalea.**
From Great Britain. Plants presented by the John Waterer Sons and Crisp Limited, Bagshot, Surrey, England. Received Apr. 25, 1955.
225047 to 225071. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.
Koster azalea.
225047. 'Altaclarens Sunbeam'. 225051. 'Comte de Papadopol'.
225048. 'Anthony Koster'. 225052. 'David Teniers'.
225049. 'Babeuff'. 225053. 'Dulceinae'.
225050. 'Brilliant Red'. 225054. 'Elizabeth'.

225047 to 225107—Continued**225047 to 225071—Continued**

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| 225055. 'Emile Liebig'. | 225064. 'Mrs. A. E. Endtz'. |
| 225056. 'Favourite'. | 225065. 'Mrs. Oosthoek'. |
| 225057. 'Frans van der Bom'. | 225066. 'Orange Blotched'. |
| 225058. 'Hugo Hardyzer'. | 225067. 'Peter Kersbergen'. |
| 225059. 'Hugo Koster'. | 225068. 'Queen Sophie'. |
| 225060. 'Isabelle van Houtte'. | 225069. 'Shakespeare'. |
| 225061. 'J. C. Van Thol'. | 225070. 'Tubantia'. |
| 225062. 'Margot Koster'. | 225071. 'Victoria'. |
| 225063. 'Mde. Arthur de Warrelles'. | |

225072 to 225092. RHODODENDRON 'Ghent' × R. 'Rustica'

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|--------------------------------|-------------------------------|
| 225072. 'Arenthusa'. | 225082. 'Narcissiflora'. |
| 225073. 'Aurea grandiflora'. | 225083. 'Noram'. |
| 225074. 'Chromatella'. | 225084. 'Orpheus'. |
| 225075. 'Daviesii'. | 225085. 'Phillias'. |
| 225076. 'Fanny'. | 225086. 'Phoebe'. |
| 225077. 'Graf van Merian'. | 225087. 'Proteus'. |
| 225078. 'Grandeur Triumphant'. | 225088. 'Rosa plena'. |
| 225079. 'Il Tasso'. | 225089. 'Sang de Gentbrugge'. |
| 225080. 'Liebritz'. | 225090. 'Vulcan'. |
| 225081. 'Nancy Waterer'. | 225091. 'William III'. |

225092 to 225098. RHODODENDRON 'Occidentale'

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|--------------------------|-------------------------|
| 225092. 'Bridesmaid'. | 225096. 'Irene Koster'. |
| 225093. 'Delicatissima'. | 225097. 'Magnifica'. |
| 225094. 'Graciosa'. | 225098. 'Superba'. |
| 225095. 'Gloriosa'. | |

225099 to 225101. RHODODENDRON × KOSTERIANUM Schneid.**Koster azalea.**

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|-----------------------|
| 225099. 'Brazil'. |
| 225100. 'Orange Man'. |
| 225101. 'Tangerine'. |

225102 to 225107. RHODODENDRON 'Ghent' × R. 'Rustica'

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|------------------------------|-------------------------|
| 225102. 'Aida'. | 225105. 'Gloria Mundi'. |
| 225103. 'Bouquet de Flore'. | 225106. 'Phallas'. |
| 225104. 'Coccinea speciosa'. | 225107. 'Unique'. |

225108 and 225109.

From Sweden. Presented by the Horticultural Research Station, Alnarp, Akarp.
Received April 26, 1955.

225108. FRAGARIA VESCA L. Rosaceae.**European strawberry.**

'Silva'. (Plants.)

225109. MALUS SYLVESTRIS Mill. Malaceae.**Apple.**

'Alfa 68'. (Scions.)

225110 to 225121.

From Germany. Seeds presented by Hans Leichum, Frankfurt-am-Main. Received April 26, 1955.

225110. *ARRHENATHERUM ELATIUS* (L.) Beauv. Poaceae. **Oatgrass.**
No. 22659.

225111. *FESTUCA ELATIOR* L. Poaceae. **Meadow fescue.**
No. 20298.

225112. *FESTUCA RUBRA* L. **Red fescue.**
No. 20490.

225113 and 225114. *LOLIUM PERENNE* L. Poaceae. **Ryegrass.**

225113. 'Odenwalder Deutsches Weidelgras'.

225114. No. 22977.

225115. *LOTUS CORNICULATUS* L. Fabaceae. **Birdsfoot trefoil.**
'H8. Oberdielbacher Hornech Klee'.

225116. *PHALARIS ARUNDINACEA* L. Poaceae. **Reed canarygrass.**

225117. *PHLEUM PRATENSE* L. Poaceae. **Timothy.**
'Odenwalder Lieochgras'.

225118. *POA PRATENSIS* L. Poaceae. **Kentucky bluegrass.**
No. 24161.

225119 and 225120. *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**

225119. 'Oberdielbacher Rotklee'.

225120. No. 23366.

225121. *TRISETUM FLAVESCENS* (L.) Beauv. Poaceae.
No. 22656.

225122. *ROSA* sp. Rosaceae.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 26, 1955.

Col. No. 14546. Near village of Kan, foothills of Alborz Range above Tehran. Apr. 17, 1955. Spreading shrub to 6 feet high, occasionally cultivated or naturalized.

225123 and 225124.

From Iran. Scions presented by A. N. Ameri, Kerman. Received Apr. 26, 1955.

225123. *CITRUS RETICULATA* Blanco Rutaceae. **Mandarin orange.**
'Tangerine'.

225124. *CITRUS SINENSIS* (L.) Osbeck **Sweet orange.**

225125. *HORDEUM VULGARE* L. Poaceae. **Barley.**

From Germany. Seeds procured by A. M. Schlehuber, Oklahoma Agricultural and Mechanical College, Stillwater, Okla. Received Apr. 26, 1955.

'Monoennot'.

225126 and 225127.

From Tanganykia. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 26, 1955.

Collected at Dar-es Salaam. Apr. 20, 1955.

225126. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 234. Plants to 18 inches high; stems fine; leaves long, narrow, two or three per node; stolons to 6 feet long; vigorous where soil is good.

225126 to 225127—Continued

226127. *LIPPIA NODIFLORA* Michx. Verbenaceae.

Col. No. 235. Plant to 10 inches high; makes a beautiful lawn in shady places; stands mowing well; becomes prostrate and compact.

225128 to 225138.

From Iran. Donor unknown. Received Apr. 26, 1955.

225128. *HORDEUM VULGARE* L. Poaceae.

Barley.

Two-rowed white.

225129. *HORDEUM* sp.

Two-rowed white.

225130. *HORDEUM* sp.

Two-rowed blue.

225131. *HORDEUM* sp.

Two-rowed black.

225132. *HORDEUM* sp.

Six-rowed black.

225133. *HORDEUM* sp.

Six-rowed white.

225134. *HORDEUM* sp.

Six-rowed white.

225135. *HORDEUM* sp.

Six-rowed white.

225136. *HORDEUM* sp.

Six-rowed black.

225137. *HORDEUM* sp.

Six-rowed black.

225138. *HORDEUM* sp.

Six-rowed white.

225139 to 225147.

From Ethiopia. Seeds collected by W. A. Archer, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

Numbered Apr. 26, 1955.

Barley selections taken from wheat introductions made in 1951.

225139 to 225144. *HORDEUM VULGARE* L. Poaceae.

Barley.

225139. From P.I. 193634.

225142. From P.I. 193875.

225140. From P.I. 193858.

225143. From P.I. 193976.

225141. From P.I. 193874.

225144. From P.I. 193885.

225145. *HORDEUM* sp.

From P.I. 194362.

225146 and 225147. *HORDEUM VULGARE* L.

Barley.

225146. From P.I. 194364.

225147. From P.I. 194369.

225148. ZEA MAYS L. Poaceae**Corn.**

From Brazil. Seeds presented by Sementes Agroceres, Sao Paulo City. Received Apr. 26, 1955.

'Agroceres 3A'.

25149 to 225151. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Portugal. Seeds presented by an unknown donor. Received Apr. 27, 1955.

225149. 29732. 'Lusitano'.

225150. 3816. 'Pirana'.

225151. 3267. 'Sao Giorgio'.

225152 to 225177. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Greece. Seeds presented by an unknown donor. Received Apr. 27, 1955.

225152. 'Lemnos' × 'Quaderna'. (G-53003.)

225153. ('Kenya' × 'Dux') × 'Quaderna'. (G-57263.)

225154. ('Kenya' × 'Mentana') × 'Quaderna'. (G-60381.)

225155. ('Kenya' × 'Dux') × 'Quaderna'. (G-58333.)

225156. ('Kenya' × 'Dux') × 'Quaderna'. (G-54136.)

225157. 'Rietty' × 'Quality'. (G-47035.)

225158. 'Libero' × (('Kenya' × 'Sinai I') × 'Mentana'). (G-54326.)

225159. 'Mentana' × (('Kenya' × 'Comberra') × 'Grinias'). (G-58363.)

225160. 'Mentana'. (YG-243.)

225161. 'Eretria'. (Greek selection) (G-202.)

225162. 'Lemnos'. (G-5770) (Durum.)

225163. 'Rietti' × 'Quality'. (G-46713.)

225164. 'Kaploutras'. (Greek *T. monococcum*.)

225165. 'Xeloeostron'. (G-3491.)

225166. 'Riety' × 'Quality'. (G-38120.)

225167. 'Durogio Portugal' × 'Lemnos'. (G-60279.)

225168. 'Kenya' × ('Sinai I' × 'Mentana') × 'Rietti'. (G-56595.)

225169. ('Comberra' × 'Grinios') × 'Mentana'. (G-57826.)

225170. ('Kenya' × 'Mentana') × 'Mentana'. (G-58325.)

225171. 'Mentana' × 'Manitoba'. (G5-58361.)

225172. ('Kenya' × 'Lux') × 'Quaderra'. (G-55571.)

225173. 'Rietti' × 'Quality'. (G-46025.)

225174. 'Rietti' × 'Quality'. (G-42855.)

225175. 'Rietti' × 'Quality'. (G-38290.)

225176. 'Pholoris Minor' × 'Petiblonco'. (G-59914.)

225177. ('Quality' × 'Rietti') × 'Manitoba'. (G-60215.)

225178. TARAXACUM sp. Cichoriaceae.

From Afghanistan. Plants growing at the United States Plant Introduction Station, Glenn Dale, Md. Received April 27, 1955.

Originally collected by E. E. Smith (No. 1199) on trail to Yakatal, Badakhshan, in 1954.

225179 to 225194. ZEA MAYS L. Poaceae.**Corn.**

From the Union of South Africa. Seeds presented by the Natal Agricultural Research Institute, Pietermaritzburg, Natal. Received April 27, 1955.

225179. A22.	225187. A604H; 3-1578.
225180. A22.	225188. A691H; 3-1582.
225181. A214P; 3-1526.	225189. A708H; 3-1585.
225182. A301P; 3-1537.	225190. A710H; 3-1605.
225183. A325P; 3-1540.	225191. A3298H; 3-1601-2.
225184. A425H; 3-1553.	225192. B2S; 3-1.
225185. A478H; 3-1564.	225193. B1138T; 3-288-2.
225186. A508H; 3-1572.	225194. K4-KY36-11 (2nd-selection).

225195 to 225215. ZEA MAYS L. Poaceae.**Corn.**

From the Union of South Africa. Seeds presented by the Potchefstroom Agricultural College, Potchefstroom, Transvaal. Received April 28, 1955.

225195 to 225204. (Yellow sweet corn).

225193. C 13.	225200. C 81.
225196. C 27.	225201. C 88.
225197. C 22.	225202. 94.0h55-1-2.
225198. C 31.	225203. 94.0h55-1-3.
225199. C 68.	225204. 95.C 68-2.

225205 to 225215. (White sweet corn).

225205. A 81-2.	225211. E174.
225206. A 85.	225212. P471.
225207. B1 (10).	225213. P1008.
225208. E 97.	225214. 12E.
225209. E101.	225215. 3006.
225210. E159-1.	

225216 to 225335.

From Iran. Seeds presented by an unknown donor. Received Apr. 28, 1955.

225216 to 225327. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

225216. No. 30. 'Graecum'.
225217. No. 31. 'Graecum'.
225218. No. 32. 'Graecum'.
225219. No. 33. 'Graecum'. Indo-European.
225220. No. 34. 'Graecum'. Compact.
225221. No. 35. 'Graecum Marginatum'.
225222. No. 36. 'Graecum'.
225223. No. 37. No varietal name.
225224. No. 38. 'Erythrospermum'.
225225. No. 39. 'Erythrospermum Grano-arabicum'.
225226. No. 40. 'Erythrospermum Grano-arabicum'.
225227. No. 41. 'Erythrospermum Compactoides'.
225228. No. 42. 'Nigroaristatum'.
225229. No. 43. 'Nigroaristatum'.

225216 to 225335—Continued**225216 to 225327—Continued**

225230. No. 44. 'Ingrediense'.
225231. No. 45. 'Fulvo-cinereum'.
225232. No. 46. 'Meridionale'.
225233. No. 47. 'Meridionale'.
225234. No. 48. 'Meridionale'.
225235. No. 49. 'Meridionale'.
225236. No. 50. 'Meridionale'.
225237. No. 51. 'Hamadanicum'.
225238. No. 52. 'Hamadanicum'.
225239. No. 53. 'Hostianum'.
225240. No. 54. 'Hostianum'.
225241. No. 55. 'Hostianum'.
225242. No. 56. 'Hostianum'.
225243. No. 57. 'Kazvinicum'.
225244. No. 58. 'Kazvinicum'.
225245. No. 59. 'Erythroleucon'.
225246. No. 60. 'Erythroleucon'.
225247. No. 61. 'Erythroleucon'.
225248. No. 62. 'Erythroleucon'.
225249. No. 63. 'Caesioides'.
225250. No. 64. 'Sardown'.
225251. No. 65. 'Ferrugineum'.
225252. No. 66. 'Ferrugineum Grano-asiaticum'.
225253. No. 67. 'Ferrugineum'.
225254. No. 68. 'Ferrugineum Compactoides'.
225255. No. 69. 'Turcicum'.
225256. No. 70. 'Turcicum'.
225257. No. 71. 'Turcicum'.
225258. No. 72. 'Turcicum'.
225259. No. 73. 'Turcicum'.
225260. No. 74. 'Rubrogriseum'.
225261. No. 75. 'Kermanchaki'.
225262. No. 76. 'Kermanchi'.
225263. No. 77. 'Kermanchi'.
225264. No. 78. 'Barbarossa'.
225265. No. 79. 'Barbarossa'.
225266. No. 80. 'Barbarossa'.
225267. No. 81. 'Barbarossa'.
225268. No. 82. 'Barbarossa'.
225269. No. 83. 'Rubromurinum'.
225270. No. 84. 'Rubromurinum'.

225216 to 225335—Continued**225216 to 225327—Continued**

225271. No. 85. 'Rubromurinum'.
 225272. No. 86. 'Rubromupinum'.
 225273. No. 87. 'Caesium'.
 225274. No. 88. 'Nigricans'.
 225275. No. 89. 'Renovatum'.
 225276. No. 90. 'Iranicum'.
 225277. No. 91. 'Mesopotamicum'.
 225278. No. 92. 'Alfidum'.
 225279. No. 93. 'Alfinflatum'.
 225280. No. 94. 'Nigro-lutescens'.
 225281. No. 95. 'Lutescens'.
 225282. No. 96. 'Velutinum'.
 225283. No. 97. 'Heroticum'.
 225284. No. 98. 'Khorassanicum'.
 225285. No. 99. 'Khorassanicum'.
 225286. No. 100. 'Tehranicum'.
 225287. No. 101. 'Albo-rubrum'.
 225288. No. 102. 'Albo-rubrum'.
 225289. No. 103. 'Rubinflatum'.
 225290. No. 104. 'Delfi'.
 225291. No. 105. 'Delfi'.
 225292. No. 106. 'Transcaspicum'.
 225293. No. 107. 'Transcaspicum'.
 225294. No. 108. 'Turkomanicum'.
 225295. No. 109. 'Cyanothrix'.
 225296. No. 110. 'Splendens'.
 225297. No. 111. 'Icterinum'.
 225298. No. 112. 'Griseo-icterinum'.
 225299. No. 113. 'Festisovii'.
 225300. No. 114. 'Erinaceum'.
 225301. No. 115. 'Christaneum'.
 225302. No. 116. 'Rubriceps'.
 225303. No. 117. 'Echinodes'.
 225304. No. 118. 'Nigrobarbatum'.
 225305. No. 119. 'Salomonis'.
 225306. No. 120. 'Dreischianum'.
 225307. No. 121. 'Speciosum'.
 225308. No. 122. 'Plinianum'.
 225309. No. 123. 'Mirabile'.
 225310. No. 124. 'Rubroatrum'.
 225311. No. 125. 'Leucurum'.
 225312. No. 126. 'Leucurum'.
 225313. No. 127. 'Affine'.

225216 to 225335—Continued**225216 to 225327—Continued**

225314. No. 128. 'Affine'.
 225315. No. 129. 'Leucomelan'.
 225316. No. 130. 'Reichenbachii'.
 225317. No. 131. 'Melanopsis'.
 225318. No. 132. 'Hordeiforme'.
 225319. No. 133. 'Murciense'.
 225320. No. 134. 'Apulicum'.
 225321. No. 135. 'Niloticum'.
 225322. No. 136. 'Provinviale'.
 225323. No. 137. 'Obscurum'.
 225324. No. 138. 'Obscurum'.
 225325. No. 139. 'Obscurum'.
 225326. No. 140. 'Coerulescens'.
 225327. No. 141. 'Libycum'.

225328 to 225331. TRITICUM ORIENTALE Perc.

225328. No. 142. 'Leucurum'.
 225329. No. 143. 'Affine'.
 225330. No. 144. 'Valenciae'.
 225331. No. 145. 'Melanopsis'.

225332 and 225333. TRITICUM DICOCCUM Schrank.

225332. No. 146. 'Volgens'.
 225333. No. 147. 'Maluratum'.

Emmer.**225334 and 225335. TRITICUM POLONICUM L.**

225334. No. 148. 'Villosum'.
 225335. No. 149. 'Pseudo-martinari'.

Polish wheat.**225336 to 225362. SACCHARUM (hybrid). Poaceae.****Sugarcane.**

From India. Cuttings presented by the Cane Breeding Institute, Coimbatore. Received April 29, 1955.

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|-----------------|--------------------|
| 225336. CO 349. | 225350. CO 962. |
| 225337. CO 441. | 225351. CO 963. |
| 225338. CO 467. | 225352. CO 971. |
| 225339. CO 508. | 225353. CO 973. |
| 225340. CO 603. | 225354. CO 974. |
| 225341. CO 644. | 225355. CO 976. |
| 225342. CO 649. | 225356. CO 981. |
| 225343. CO 677. | 225357. BO 4. |
| 225344. CO 678. | 225358. BO 21. |
| 225345. CO 686. | 225359. Co. K. 41. |
| 225346. CO 721. | 225360. SES 273. |
| 225347. CO 798. | 225361. SES 305. |
| 225348. CO 801. | 225362. SES 353. |
| 225349. CO 961. | |

225363 to 225525. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Uruguay. Seeds presented by the Ministerio de Ganaderia y Agricultura, la Estanzuela. Received Apr. 29, 1955.

A collection of smut-resistant selections.

225363 to 225370. 'Petiblanco' × CZ(13)002400.

225363.	2-33.	225367.	6-44.
225364.	3-36.	225368.	7-47.
225365.	4-40.	225369.	8-48.
225366.	5-41.	225370.	9-49.

225371. 'Petirrojo' = 2762#53002 × DP(10)0 10-60.

225372 to 225406. 'Sinvalocho' × 'Petiblanco'.

225372.	11-63.	225390.	29-173.
225373.	12-64.	225391.	30-175.
225374.	13-70.	225392.	31-187.
225375.	14-76.	225393.	32-194.
225376.	15-88.	225394.	33-195.
225377.	16-97.	225395.	34-198.
225378.	17-99.	225396.	35-219.
225379.	18-115.	225397.	36-220.
225380.	19-126.	225398.	37-221.
225381.	20-127.	225399.	38-242.
225382.	21-128.	225400.	39-243.
225383.	22-142.	225401.	40-246.
225384.	23-144.	225402.	41-256.
225385.	24-146.	225403.	42-276.
225386.	25-147.	225404.	43-277.
225387.	26-163.	225405.	44-281.
225388.	27-164.	225406.	45-366.
225389.	28-171.		

225407 to 225410. 'Sinvalocho' × 'Petiblanco'.

225407.	46-400.	225409.	48-474.
225408.	47-408.	2: 5410.	49-480.

225411 to 225416. 'Sinvalocho' × 2762 #53002 'Petirrojo'.

225411.	50-490.	225414.	53-499.
225412.	51-491.	225415.	54-517.
225413.	52-494.	225416.	55-518

225417 and 225418. 38 M. A. × 2762 #53002

225417.	56-528.
225418.	57-530.

225419 to 225439. 'Sinvalocho' × 'Petirrojo'.

225363 to 225525—Continued**225419 to 225439—Continued**

225419.	58-537.	225430.	69-622.
225420.	59-540.	225431.	70-632.
225421.	60-541.	225432.	71-639.
225422.	61-564.	225433.	72-640.
225423.	62-568.	225434.	73-641.
225424.	63-569.	225435.	74-646.
225425.	64-570.	225436.	75-652.
225426.	65-585.	225437.	76-653.
225427.	66-590.	225438.	77-682.
225428.	67-603.	225439.	78-692.
225429.	68-605.		

225440 to 225443. 38 M. A. × 'Petirrojo'.

225440.	80-769.	225442.	82-798.
225441.	81-784.	225443.	83-800.

225444 to 225450. 'Sinvalocho' × 'Petiblanco'.

225444.	84-828.	225448.	88-848.
225445.	85-829.	225449.	89-853.
225446.	86-839.	225450.	90-855.
225447.	87-840.		

225451 to 225454. 'Sinvalocho' × 2762 #53002 'Petirrojo'.

225451.	91-867.	225453.	93-873.
225452.	92-869.	225454.	95-904.

225455 to 225459. 38 M. A. × 'Petirrojo'.

225455.	96-908.	225458.	99-2552.
225456.	97-910.	225459.	100-2579.
225457.	98-915.		

225460. 'Petiblanco' × CZ(13)002400.
101-32.**225461 to 225483.** 'Sinvalocho' × 'Petiblanco'.

225461.	102-71.	225473.	114-197.
225462.	103-72.	225474.	115-241.
225463.	104-94.	225475.	116-245.
225464.	105-96.	225476.	117-262.
225465.	106-119.	225477.	118-272.
225466.	107-129.	225478.	119-345.
225467.	108-130.	225479.	120-349.
225468.	109-138.	225480.	121-352.
225469.	110-167.	225481.	122-362.
225470.	111-172.	225482.	123-364.
225471.	112-191.	225483.	124-377.
225472.	113-196.		

225363 to 225525—Continued

225484 to 225488. 'Sinvalocho' × 'Petiblanco'.

225484. 125-392. 225487. 128-443.

225485. 126-397. 225488. 129-461.

225486. 127-418.

225489 to 225493. 'Sinvalocho' × 'Petirrojo'.

225489. 130-543. 225492. 133-659.

225490. 131-555. 225493. 134-663.

225491. 132-584.

225494 to 225498. 'Sinvalocho' × 'Petiblanco'.

225494. 135-833. 225497. 138-843.

225495. 136-838. 225498. 140-900.

225496. 137-842.

225499 to 225501. 38 M. A. × 'Petirrojo'.

225499. 141-907.

225500. 142-929.

225501. 143-2561.

225502 and 225503. 'Sinvalocho' × 'Petirrojo'.

225502. 144-2582.

225503. 145-2585.

225504 to 225524. 'Sinvalocho' × 'Petiblanco'.

225504. 146-74. 225515. 157-244.

225505. 147-91. 225516. 158-251.

225506. 148-92. 225517. 159-254.

225507. 149-93. 225518. 160-375.

225508. 150-95. 225519. 161-390.

225509. 151-100. 225520. 162-410.

225510. 152-111. 225521. 163-420.

225511. 153-112. 225522. 164-446.

225512. 154-121. 225523. 165-448.

225513. 155-122. 225524. 166-450.

225514. 156-193.

225525. 'Sinvalocho' × 'Petiblanco'.

167-831.

225526 to 225539.

From Germany, Plants purchased from Herm. A. Heese Baumschulen, Weener
Received Apr. 29, 1955.

225526. ABIES NORDMANNIANA (Steven) Spach Pinaceae. Nordmann fir.
'Pendula'.

225527. ACER SACCHARINUM L. Aceraceae. Silver maple.
'Pyramidale'.

225528. ACER LAXIFLORUM Pax Maple.

225529. ACER VEITCHII Schwerin Veitch maple.

225526 to 225539—Continued

- 225530 and 225531.** CEDRUS LIBANI A. Rich. Pinaceae. **Cedar-of-Lebanon.**
225530. 'Sargentii'.
225531. 'Stenocoma'.
- 225532.** JUNIPERUS COXII A. B. Jacks Pinaceae. **Cox juniper.**
- 225533.** LABURNUM ALPINUM (Mill.) Bercht. & Presl. Fabaceae. **Scotch laburnum.**
 'Pendulum'.
- 225534.** PICEA ORIENTALIS (L.) Link Pinaceae. **Oriental spruce.**
 'Nutans'.
- 225535.** POPULUS SZECHUANICA C. Schneid. Salicaceae. **Szechwan poplar.**
- 225536.** POPULUS WILSONII C. Schneid.
- 225537.** PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**
 'Flore Plene Grandiflora'.
- 225538.** PRUNUS PADUS L. **Bird cherry.**
 'Flore Pleno'.
- 225539.** SALIX × CHRYSOSTELA Dode Salicaceae.
- 225540** FRAGARIA (hybrid). Rosaceae. **Strawberry.**
 From Norway. Plants presented by the Agricultural College of Norway, Vollebakk. Received Apr. 29, 1955.
 'Abundance'.
- 225541.** SOLANUM TUBEROSUM L. Solanaceae. **Potato.**
 From Great Britain. Tubers presented by the Agricultural Research Council, Potato Genetics Station, Cambridge. Received May 2, 1955.
 'Skerry Champion'.
- 225542.** LUPINUS LUTEUS L. Fabaceae. **European yellow lupine.**
 From the Netherlands. Seeds presented by the Selectiebedrijf "Luidenburg" N.V., Groningen. Received May 2, 1955.
 'Neven Yellow'.
- 225543** MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
 From Germany. Seeds presented by the Broun'sche Saatzuchtwirtschaft, Wehrda. Received May 2, 1955.
 NR. × 1566/54 'Hildebrads Wehrdaer Luzerne Superelite'.
- 225544 and 225545.** JUGLANS REGIA L. Juglandaceae. **Persian walnut.**
 From France. Seeds presented by Gilbert Hermann, Bergerac, Dordogne. Received May 2, 1955.
225544. 'Corne'.
225545. 'Marbot'.
- 225546 to 225550.** MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
 From France. Seeds presented by the Station Centrale d'Amelioration des Plantes, Versailles. Received May 2, 1955.
225546. 'Du Puits'. **225549.** 'Gamma'.
225547. 'Emeraude'. **225550.** 'Orchesienne'.
225548. FD 100.

225551 to 225590.

From Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Section, Beltsville, Md. Received May 2, 1955.

Collected Feb. to Mar., 1955.

225551. *AESCHYNOMENE INDICA* L. Fabaceae.

Col. No. 159. Victoria Falls, Northern Rhodesia. Grows to 3 feet high.

225552. *ALBIZZIA LEBBECK* (L.) Benth. Mimosaceae.

Col. No. 39. Dakar, West Africa.

225553. *DANTHONIOPSIS DINTERI* (Pilger) C. E. Hubb. Poaceae.

Col. No. 145. Bluff around Victoria Falls, Northern Rhodesia. Plants to 7 feet high; leaves broad, tender.

225554. *BRACHIARIA* sp. Poaceae.

Col. No. 79. Pretoria, Transvaal. Dense bunchgrass, to 2.5 feet high; leaves compact, fine.

225555. *CASSIA* sp. Caesalpinaceae.

Col. No. 165. Along road near Victoria Falls, Northern Rhodesia. Plants to 4 feet high.

225556. *CHLORIS* sp. Poaceae.

Col. No. 141. Experiment Station plot, 10 miles from Lusaka, Northern Rhodesia. Plant to 4 feet high; somewhat coarse.

225557. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

Watermelon.

Col. No. 110. Salisbury, Southern Rhodesia. Fruits about 6 inches in diameter.

225558. *CROTALARIA LEUBNITZIANA* Schinz Fabaceae.

Col. No. 154. Victoria Falls, Northern Rhodesia. Annual to 2 feet high.

225559. *CROTALARIA* sp.

Col. No. 155. Victoria Falls, Northern Rhodesia. Similar to P.I. 225558 but more delicate and more prostrate.

225560. *CROTALARIA INTERMEDIA* Kotschy

Slenderleaf crotalaria.

Col. No. 157. Victoria Falls, Northern Rhodesia. Plants to 5 feet high.

225561. *DACTYLOCTENIUM AEGYPTIUM* (L.) Beauv. Poaceae.

Durban crowfootgrass.

Col. No. 100. About 35 miles east of Salisbury, Southern Rhodesia. Plants to 3.5 feet high.

225562. *DIGITARIA* sp. Poaceae.

Col. No. 50. Pretoria, Transvaal. Extremely dense bunchgrass to 2.5 feet high.

225563. *DIGITARIA* sp.

Col. No. 51. Pretoria, Transvaal. Plant to 3 feet high, stoloniferous; good yielder of hay or forage; growth compact.

225564 and 225565. *DOLICHOS LABLAB* L. Fabaceae.

Hyacinth-bean

225564. Col. No. 33. Utrecht, Natal, South Africa. Presented by the Botany Department of the Department of Agriculture, Pretoria.

225565. Col. No. 37. Pretoria, Transvaal. Originally from Fort Beaufort, Cape Province.

225566. *ECHINOCHLOA* sp. Poaceae.

Col. No. 53. Pretoria, Transvaal. A giant grass, to 10 feet high; yield good.

225551 to 225590—Continued

225567. ECHINOCHLOA sp.

Col. No. 56. Plant to 3 feet high; rhizomes short; upright; stems fine.

225568. ECHINOCHLOA CRUSGALLI var. MITIS (Pursh) Peterm.

Beardless barnyard grass.

Col. No. 57. Pretoria, Transvaal. Plant to 8 feet high; heavy yielder; used for silage.

225569. ELEUSINE CORACANA (L.) Gaertn. Poaceae. **Ragi.**

Col. No. 123. Negro Secio Reservation, about 20 miles from Salisbury, Southern Rhodesia. Plants to 2.5 feet high.

225570. ERAGROSTIS sp. Poaceae.

Col. No. 55. Pretoria, Transvaal. Plant to 5 feet high; dense bunchgrass; yield heavy; seeds heavy.

225571. ERIOSEMA sp. Fabaceae.

Col. No. 132. Five miles from Lusaka, Northern Rhodesia. Plants to 8 feet high; much branched; flowers yellow; seeds abundantly.

225572. FESTUCA sp. Poaceae.

Col. No. 42. Pretoria, Transvaal. Plant large and vigorous.

225573. GLYCINE JAVANICA L. Fabaceae.

Col. No. 144. Experiment Station 10 miles from Lusaka, Northern Rhodesia.

225574. HETEROPOGON sp. Poaceae.

Col. No. 158. Near Victoria Falls, Northern Rhodesia. Plant to 6 feet high.

225575. INDIGOFERA ECHINATA Willd. Fabaceae. **Indigo.**

Col. No. 142. Experiment Station, 10 miles from Lusaka, Northern Rhodesia. Stems about 2 feet high.

225576. INDIGOFERA sp.

Col. No. 148. Victoria Falls, Northern Rhodesia. Plants to 4 feet high; seeds abundantly.

225577. INDIGOFERA sp.

Col. No. 160. Near Victoria Falls, Northern Rhodesia. Plants to 4 feet high; woody; low vegetative yield.

225578. INDIGOFERA DIPHYLLA Vent. **Indigo.**

Col. No. 149. Around Victoria Falls and Lusaka, Northern Rhodesia. Prostrate leafy legume. Common in tall grass.

225579. PANICUM sp. Poaceae.

Col. No. 52. Pretoria Transvaal. Plant to 5 feet high; yield fairly good.

225580. PANICUM sp.

Col. No. 77. Pretoria, Transvaal. Upright, very compact; makes fine hay.

225581. PANICUM sp.

Col. No. 81. Pretoria, Transvaal. Plant to 5 feet high. Hay type.

225582. PANICUM sp.

Col. No. 151. Open woods near Victoria Falls, Northern Rhodesia. Plants to 5 feet high.

225551 to 225590—Continued

- 225583 to 225585.** PENNISETUM CILIARE (L.) Link Poaceae **Buffleggrass.**
225583. Col. No. 58. Pretoria, Transvaal.
225584. Col. No. 59. Pretoria, Transvaal. A leafy type.
225585. Col. No. 69. Pretoria, Transvaal. Largest, latest and best variety grown.
- 225586.** SETARIA SPHACELATA (Schum.) Stapf & Hubb. Poaceae. **Millet.**
 Col. No. 45. Pretoria, Transvaal. Grows wild; to 4 feet high.
- 225587.** SETARIA sp.
 Col. No. 72. Pretoria, Transvaal. Plant to 5 feet high. Bunch type; stems fine.
- 225588.** SETARIA sp.
 Col. No. 74. Pretoria, Transvaal. Dense, compact bunchgrass to 2.5 feet high; leaves fine.
- 225589.** SETARIA SPHACELATA (Schum.) Stapf & Hubb. **Millet.**
 Col. No. 75. Pretoria, Transvaal. Sprawling bunchgrass.
- 225590.** SETARIA CHEVALIERI Stapf **Millet**
 Col. No. 80. Pretoria, Transvaal. Grass to 5 feet high; ornamental.

225591 to 225602.

From British East Africa. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 3, 1955.

Collected Apr. 11 to 17, 1955 in Tanganyika.

- 225591.** CYNODON sp. Poaceae.
 Ccl. No. 209. Growing near Tabora Hotel. Aggressive; stolons stout; internodes short.
- 225592.** CYNODON sp.
 Col. No. 210. Near Tabora. Stems have longer internodes than P.I. 225591; 2 to 3 leaves per node.
- 225593.** CYNODON sp.
 Col. No. 211. Edge of street in Tabora. Stems stout; leaves yellowish green.
- 225594.** CYNODON sp.
 Col. No. 212. Along road to Airport, Tabora. Vigorous, dark green; about 15 inches high; stolons long; rhizomes short. Growing in thick sod.
- 225595.** CYNODON DACTYLON (L.) Pers. **Bermudagrass.**
 Col. No. 226. Mpwapa Experiment Station. Very good, short; fine sod.
- 225596.** CYNODON sp.
 Col. No. 227. Mpwapa Experiment Station. A fine-leaved variety; 2 leaves per node; may be a cross with *C. dactylon*.
- 225597.** CYNODON sp.
 Col. No. 228. Mpwapa Experiment Station. Small type mixed with 'Starr'; grazed more closely than the coarse.
- 225598.** CYNODON sp.
 Col. No. 229. Mpwapa Experiment Station. Large blue-green type; rather coarse. Used for hay and silage.
- 225599.** CYNODON sp.
 Col. No. 230. Mpwapa Experiment Station. Grows best in moist soil; used for grazing, hay and silage.
- 225600.** CYNODON sp.
 Col. No. 231. Mpwapa Experiment Station. Smallest of 'Starr' variety, may be

225591 to 225602—Con inued

a cross with *C. dactylon*. Grows in fairly wet soil; stems fine; leaves very palatable.

225601. *ANDROPOGON PAPILLOSUS* Hochst. Poaceae. **Bluestem.;**

Col. No. 232. Mpwapa Experiment Station. Grass tender; very fine leaved excellent for pasture or hay.

225602. (Undetermined.) Poaceae.

Col. No. 204. No data.

225603 to 225605. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From India. Seeds presented by the Coffee Research Station, Balehonnur, Mysore State. Received May 3, 1955.

225603. S.288.

225604. S.333.

225605. S.795.

225606 to 225609.

From India. Seeds presented by the Institute of Plant Industry, Indore. Received May 2, 1955.

225606. *DICHANTHIUM ANNULATUM* (Forsk.) Stapf Poaceae. **Palwan.**

225607. *BOTHRIOCHLOA PERTUSA* (L.) A. Camus Poaceae.

225608. *BOTHRIOCHLOA INTERMEDIA* (R. Br.) A. Camus

225609. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae. **Tanglehead.**

225610 to 225619. PAPAVER ORIENTALE L. Papaveraceae.

Oriental poppy.

From Turkey. Seeds presented by the University of Ankara, Ankará. Received May 3, 1955.

225610. No. 34/1; 'Bilecik'. **225615.** 130/3; 'Isparta'.

225611. No. 35/1; 'Bilecik'. **225616.** 137/2; 'Antalya'.

225612. No. 72/14; 'Kutahya'. **225617.** 163/2; 'Kohya-Aksehír'.

225613. No. 4/2; 'Manisa-Salihli'. **225618.** 197/2; 'Sivas-Yildiz'.

225614. 127/16; 'Isparta-yalvac'. **225619.** 269/1; 'Gumushacikoy'.

225620 to 225714.

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received May 4, 1955.

225620 and 225621. *SOLANUM ACALE* Bitter Solanaceae.

225620. No. 592.

225621. No. 772.

225622 to 225637. *SOLANUM ANDIGENUM* Juz. & Buk.

225622. 'Belena 33'. **225631.** 'Tacca 681'.

225623. 'Colorada 686'. **225632.** 'Tocana Colorada 46'.

225624. J × C No. 17A. **225633.** 'Tuquerrena Negra' o 'Sabanera 61'.

225625. 'Limena 590'. **225634.** 'Tuquerrena Negra' o 'Sabanera 61B'.

225626. 'Lizaraza Negra 6'. **225635.** No. 427.

225627. 'Lizaraza Rosada 5'. **225635.** No. 679.

225628. 'Pana Blanca 405'. **225637.** N. 687.

225629. 'Papa de Ano 47'.

225630. 'Suso 682'.

225620 to 225714—Continued**225638** SOLANUM BREVIDENS Phil.

No. 652.

225639 to 225648. SOLANUM COLOMBIANUM Dunal**225639.** No. 116.**2256 4** No. 401.**225640.** No. 134.**225645.** No. 567.**225641.** No. 161.**225646.** No. 571.**225642.** No. 271.**225647.** 'Trianae No. 120'.**225643.** No. 319.**225648.** 'Trianae No. 121'.**225649 to 225651.** SOLANUM CURTILOBUM Juz. & Buk.**225649.** No. 479.**225650.** No. 48).**225651.** No. 481.**225652 to 225656.** SOLANUM DEMISSUM Lindl.**225652.** No. 606.**225655.** No. 642.**225653.** No. 620A.**225656.** No. 649.**225654.** No. 639.**225657 to 225659.** SOLANUM JUGLANDIFOLIUM H. B. K.**225657.** No. 279.**225658.** No. 391.**225659.** No. 568.**225660.** SOLANUM LONGICONICUM Bitter

No. 633.

225661. SOLANUM MALINCHENSE Hawkes

No. 605B.

225662. SOLANUM MOSCOPANUM Hawkes

No. 281.

225663. SOLANUM OCHRANTHUM Dunal

No. 572.

225664. SOLANUM PEARCEI Phil.

No. 655.

225665 to 225710. SOLANUM RYBINII Juz. & Buk.**225665.** 'Amarilla 252'.**225675.** 'Chaucha Chula
Negra 131'.**225666.** 'Amarilla 588'.**225676.** 'Chaucha Colorada
Redonda 183'.**225667.** 'Amarilla Larga 147'.**225668.** 'Caretá Amarilla 247'.**225677.** 'Chaucha Curilla 181'.**225669.** 'Chaucha 118'.**225678.** 'Chaucha Morada'
o 'Borrega 173'.**225670.** 'Chaucha Amarilla 180'.**225671.** 'Chaucha Blanca 135'.**225679.** 'Chaucha Morada'
o 'Negra 133'.**225672.** 'Chaucha Blanca
Larga 125'.**225680.** 'Chaucha Morada
Redonda 191'.**225673.** 'Chaucha Blanca
Larga 178'.**225681.** 'Chaucha Negra 143'.**225674.** 'Chaucha Calavera
Blanca 122'.**225682.** 'Chaucha Negra 193'.**225683.** 'Chaucha Negra 192'.

225620 to 225714—Continued

225665 to 225710—Continued

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|---|--|
| 225684. 'Chaucha Oca (Rosada) 150'. | 225697. 'Jardina Morada 129'. |
| 225685. 'Chaucha Rosquilla Colorada 188' | 225698. 'Marcilla 157'. |
| 225686. 'Colorada 261'. | 225699. 'Papa Amarilla' o 'Yema de Huevo 288'. |
| 225687. 'Colorada Blanca 232'. | 225700. 'Papa Ibia (Blanca) 91'. |
| 225688. 'Colorada Careta 234'. | 225701. 'Papa Rosada (Rosada) 92'. |
| 225689. 'Colorada Legitima 256'. | 225702. 'Papa Mora Criolla 226'. |
| 225690. 'Colorada Lisa 248'. | 225703. 'Pepina 84'. |
| 225691. 'Colorada Manzana 242'. | 225704. 'Rosada 124'. |
| 225692. 'Criolla 276'. | 225705. 'Rosalena' o 'Pepina 239'. |
| 225693. 'Criolla Bandera 11'. | 225706. 'Tabaca' o 'Chura 151'. |
| 225694. 'Criolla Rosada 10'. | 225707. 'Yema de Huevo 81'. |
| 225695. 'Jardina Blanca 130'. | 225708. 119. |
| 225696. 'Jardina' o 'Chaucha Amarilla 561'. | 225709. 277. |
| | 225710. 278. |

225711. SOLANUM TUBEROSUM L.

Potato.

No. 643A.

225712. SOLANUM ETUBEROSUM var. CHILLANENSE Bitter

No. 654.

225713. SOLANUM sp.

No. 273.

225714. SOLANUM sp.

No. 794.

225715. HIBISCUS CANNABINUS L. Malvaceae.

Kenaf.

From Southern Rhodesia. Seeds presented by the Sabi Valley Experiment Station, Umtali. Received May 4, 1955.

225716 LATHYRUS PRATENSIS L. Fabaceae.

Meadow peavine.

From Great Britain. Seeds presented by the Royal Botanic Gardens, Kew, Surrey. Received May 5, 1955.

225717 to 225719. GOSSYPIUM (hybrids). Malvaceae.

Cotton.

From Pakistan. Seeds presented by United States Operations Mission to Pakistan, through the American Embassy, Karachi. Received May 5, 1955.

Originally from Bengal.

225717. American type. C.B. 2991. Near Rajshahi.

225718. Garo Hill type. C.B. 2992. Near Mymeusingh.

225719. Kidney type. C.B. 2993. Near Rajshahi.

225720 to 225725.

From France. Seeds presented by the Botanic Garden, Nancy. Received May 5, 1955.

Received May 5,

225720. DATURA QUERCIFOLIA H.B.K. Solanaceae.

Oakleaf datura.

225721. DATURA STRAMONIUM L.

Jimsonweed.

225722. DATURA TATULA L.

225723. DATURA sp.

225720 to 225725—Continued225724. *DATURA* sp.225725. *DATURA* sp.**225726** *LOLIUM MULTIFLORUM* Lam. Poaceae. **Ryegrass.**

From Italy. Seeds presented by the Università Degli Studi di Firenze, Florence. Received May 5, 1955.

225727 *SANSEVIERIA THYRSIFLORA* Thunb. Liliaceae.

From Haiti. Leaf collected by E. G. Nelson, Cotton and other Fiber Crops Section, Horticultural Crops Research Branch, Beltsville, Md.

Received May 5, 1955.

From Port-au-Prince.

225728 to 225732.

From Turkey. Seeds presented by the Foreign Operations Administration, Ankar. Received May 5, 1955.

225728. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**225729. *ONOBRYCHIS* sp.

No. 1.

225730. *ONOBRYCHIS* sp.

No. 2.

225731. *ONOBRYCHIS* sp.

No. 3.

225732. *VICIA NARBONENSIS* L. Fabaceae. **Vetch.****225733** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Turkey. Seeds collected by J. R. Harlan, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 5, 1955.

Seeds selected from a shipment of *Hordeum* sp., P.I. 170975, collected in Turkey in 1948.**225734.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Japan. Seeds presented by Dr. Leonard, San Francisco, California. Received May 6, 1955.

Seeds selected from a shipment of *Hordeum* sp., P.I. 182615, received from Japan in 1949.**225735.** *ARUNDINARIA ALPINA* Schum. Poaceae. **Bamboo.**

From Kenya. Plants collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 10, 1955.

Col. No. 252. Forestry Department, Kitale.

225736 *COFFEA CANEPHORA* Pierre ex Froehn. Rubiaceae. **Coffee.**

From Portugal. Seeds presented by the Estacao Agronomica Nacional, Sacavem. Received May 9, 1955.

No. 299. 'DeLa Nana'. Originally from the Station Centale de Baukoko, Ubangi-Shari, French Equatorial Africa.

225737 to 225742.

From Kenya. Plants obtained by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 10, 1955.

225737 to 225742—Continued

All plants originally collected by Dr. P. J. Greenway, East African Herbarium, Nairobi.

225737. SAINTPAULIA GROTEI Engl. Gesneriaceae.

Col. No. 345. Bell Nurseries.

225738. SAINTPAULIA TONGWENSIS B. L. Burtt.

Col. No. 341. Bell Nurseries.

225739. SAINTPAULIA sp.

Col. No. 340. Bell Nurseries.

225740. SAINTPAULIA sp.

Col. No. 344. City Park Superintendent.

225741. SAINTPAULIA sp.

Col. No. 342. Originally from southeast of Kilimanjaro, Tanganyika.

225742. SAINTPAULIA sp.

Col. No. 343. City Park Superintendent.

225743 and 225744. ORYZA SATIVA L. Poaceae.

Rice.

From Portugal. Seeds presented by the Estacao Agronomica Nacional, Sacavem, Received May 11, 1955.

225743. 'Arroz da Terra'.

225744. 'Arroz Portugues'.

225745 and 225746.

From the Union of South Africa. Seeds obtained from the Rietulei Agricultural Research Station, Pretoria, Transvaal. Received May 11, 1955.

225745. CHLORIS PYCNOTHRIX Trin. Poaceae.

225746. CHLORIS VIRGATA Swartz

225747 to 225751.

From India. Budwood presented by the Fruit Research Station, Kodur, Cuddapah District. Received May 11, 1955.

225747. CITRUS LIMON (L.) Burm. f. Rutaceae.

Lemon.

225748 and 225749. CITRUS RETICULATA Blanco

Mandarin orange.

225748. 'Billikitchili'.

225749. 'Kitchili'.

225750 and 225751. CITRUS SINENSIS (L.) Osbeck

Sweet orange.

225750. 'Sathgudi'.

225751. 'Vadlapudi'. Flesh pink.

225752 to 225781 RHODODENDRON (hybrids). Ericaceae.

Azalea.

From Great Britain. Plants purchased from Walter C. Slocock, Limited, Woking, Surrey. Received May 11, 1955.

225752 to 225763. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.

Koster azalea.

225752. 'Alice de Steurs'.

225758. 'Minister Therbicke'.

225753. 'Alphonse Lavelle'.

225759. 'Nicholas Beets'.

225754. 'Bouquet d'Orange'.

225760. 'Oranea'.

225755. 'Chevalier de Reali'.

225761. 'Prince Frederick'.

225756. 'Hugo Hardyzer'.

225762. 'Radiant'.

225757. 'Mme. A. C. de Warelles'.

225763. 'Therese'.

225752 to 225781—Continued

225764 to 225770. 'Ghent' × 'Rustica-Flore Pleno'.

225764. 'Aida'.

225768. 'Milton'.

225765. 'Queen Emma'.

225769. 'Raphael de Smet'.

225766. 'Guelder Rose'.

225770. 'General Vetter'.

225767. 'Josephine Klinger'.

225771 to 225780. 'Knaphill' hybrids.

225771. 'Devon'.

225776. 'Pink Delight'.

225772. 'Gog'.

225777. 'Princess'.

225773. 'Harvest Moon'.

225778. 'Satan'.

225774. 'Mrs. Oliver Slocock'.

225779. 'Seville'.

225775. 'Persil'.

225780. 'Tunis'.

225781. RHODODENDRON OCCIDENTALE (hybrid).

'Westminister'.

225782 to 225787. RAUVOLFIA VOMITORIA Afzel. Apocynaceae.

Devilpepper.

From the Belgian Congo. Cuttings received through the Ciba Pharmaceutical Products, Incorporated, Summit, New Jersey.

Originally from Inkisi, Kisantu.

225782. No. 1841.

225785. No. 3030.

225783. No. 1989.

225786. No. 2476.

225784. No. 2199.

225787. Germain 2721.

225788 to 225790. GOSSYPIUM (hybrids). Malvaceae.

Cotton.

From Uganda. Seeds presented by the Cotton Research Station, Namulonge, Kampala. Received May 13, 1955.

225788. A619.

225789. A619 × 474.

225790. (A619 × 474) × A7262.

225791 to 225796.

From Kenya. Seeds presented by the Grasslands Research Station, Kitale. Received May 13, 1955.

225791. ALYSICARPUS GLUMACEUS DC. Fabaceae.

225792. TRIFOLIUM CHERANGANIENSE Gillett Fabaceae.

Clover.

225793. TRIFOLIUM RUEPELLIANUM Fresen.

Clover.

225794. TRIFOLIUM SEMIPILOSUM Fresen.

Clover.

225795. TRIFOLIUM STEUDNERI Schw.

Clover.

225796. TRIFOLIUM TEMBENSE Fresen.

Clover.

225797 to 225798.

From Guatemala. Seeds presented by the Instituto Agropecuario Nacional "La Aurora", Guatemala City. Received May 16, 1955.

225797. INGA sp. Mimosaceae.

Received as *I. deliciosus*, an apparently unpublished name.

225798. INGA INGOIDES Willd.

'Cushin'.

- 225799.** *COFFEA* sp. Rubiaceae. **Coffee.**
 From Portugal. Seeds presented by Dr. d'Oliveira, Sacavem. Received May 16, 1955.
 Originally from Posto Administrativo de Lumbo, Circunscricao de Mossuril, Niassa, Mozambique.
 No. 301. Resembles *C. racemosa*.
- 225800 to 225815.**
 From Kenya. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 16, 1955.
 Collected in Kitale, Apr. 27 to 29, 1955.
- 225800.** *ACROCERAS MACRUM* Stapf Poaceae.
 Col. No. 237.
- 225801.** *BRACHIARIA HUMIDICOLA* (Rendle) Schweick. Poaceae.
 Col. No. 246. K 50181. Originally from Southern Rhodesia.
- 225802 to 225807.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
- 225802.** Col. No. 238. K 51426. **225805.** Col. No. 244. K 51418.
225803. Col. No. 239. K 51424 **225806.** Col. No. 250. K 53672.
225804. Col. No. 242. K 53655. **225807.** Col. No. 251. K 5028.
- 225808.** *CYNODON PLECTOSTACHYUS* (Schum.) Pilger
 Col. No. 240. K 53647.
- 225809.** *CYNODON* sp.
 Col. No. 236. Originally from Eldoret.
- 225810.** *DIGITARIA MACROBLEPHARA* (Hack.) Paoli Poaceae. **Crabgrass.**
 Col. No. 247.
- 225811.** *ELEUSINE FLOCCIFOLIA* (Forsk.) Spreng. Poaceae.
 Col. No. 249. Perennial tufted grass.
- 225812.** *EULALIA GENICULATA* Stapf Poaceae.
 Col. No. 241. Tufted grass.
- 225813.** *EUSTACHYS PASPALOIDES* (Vahl) Lanza & Mattei. Poaceae.
 Col. No. 248.
- 225814.** *SPOROBOLUS HELVOLUS* (Trin.) Dur. & Schinz Poaceae. **Dropseed.**
 Col. No. 243
- 225815.** *SPOROBOLUS MARGINATUS* Hochst. **Dropseed.**
 Col. No. 245.
- 225816 and 225817.**
 From Iran. Cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 17, 1955.
- 225816.** *ROSA* sp. Rosaceae. **Rose.**
 Col. No. 14774. Shiraz. Elevation 5,200 feet. May 6, 1955. Bush large; on trellis; petals few, used locally to make a sweet rose-water drink.
- 225817.** *ROSA* sp.
 Col. No. 14775. Shiraz. Elevation 5,200 feet. May 6, 1955. Vine large; flowers small, pale yellow.

225818 to 225820.

From the Belgian Congo. Cuttings presented by Jardin Gillet, Kisantu. Received May 18, 1955.

225818. RAUVOLFIA sp. Apocynaceae.

'Germain No. 2477'.

225819. RAUVOLFIA sp.

No. 4603.

225820. RAUVOLFIA sp.

No data.

225821. CHRYSANTHEMUM CINERARIAEFOLIUM (Trevir.) Vis. Aster-
aceae. **Pyrethrum.**

From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quita. Received May 18, 1955.

A strain with 1.65 to 1.75 percent pyrethrum.

225822 to 225826.

From Denmark. Seeds presented by Trifolium Frø, Copenhagen. Received May 18, 1955.

225822. DACTYLIS GLOMERATA L. Poaceae.

Orchardgrass.

No 06283.

225823. FESTUCA ELATIOR L. Poaceae.

Meadow fescue.

No. 06574.

225824. FESTUCA RUBRA L.

Red fescue.

No. 06791.

225825. LOLIUM PERENNE L. Poaceae.

Ryegrass.

No. 0571.

225826. POA TRIVIALIS L. Poaceae.

Roughstalk bluegrass.

No. 02028.

225827 to 225829. TRIFOLIUM AMBIGUUM Bieb. Fabaceae.

Kura clover.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 18, 1955.

225827. 2264 $2n=16$. Received in 1931 from the Botanic Gardens, Tiflis, Georgia, Union of Soviet Socialist Republics.

225828. 2771 $2n=16$. Received in 1932 from the Botanic Gardens, Tiflis, Georgia, Union of Soviet Socialist Republics.

225829. New Zealand Strain $2n=48$.

225830 to 225832.

From Austria. Seeds presented by Julius Stainer, Vienna. Received May 18, 1955.

225830 and 225831. LARIX DECIDUA Mill. Pinaceae.

European larch.

225830. No. 1. Foothills of the Alps, 2,000 to 3,300 feet elevation.

225831. No. 2. Central Alps, 3,300 to 6,600 feet elevation.

225832. PINUS SYLVESTRIS L. Pinaceae.

Scotch pine.

225833 to 225844.

From Denmark. Seeds presented by the Jardin Botanique de l'Universite, Copenhagen. Received May 19, 1955.

225833. DATURA BERNHARDII Lundstr. Solanaceae.

225833 to 225844—Continued225833. *DATURA CERATOCAPULA* Jacq.225835. *DATURA FEROX* L.225836. *DATURA INOXIA* Mill.22583. *DATURA LEICHHARDTII* F. Muell.225838. *DATURA METELOIDES* DC.

Sacred datura.

225839. *DATURA METEL* L.

Hindu datura.

225840 to 225842. *DATURA STRAMONIUM* L.

Jimsonweed.

225840. Typical form.

225841. 'Godronii'.

225842. 'Inermis'.

225843 and 225844. *DATURA TATULA* L.

225843. Typical form.

225844. 'Inermis'.

225845 and 225846. PINUS SYLVESTRIS L. Pinaceae. **Scotch pine.**

From Germany. Seeds presented by the Staatliche Samendarre Wolfgang Kreis, Hanau. Received May 19, 1955.

225845. No. 1.

225846. No. 2.

225847 to 225849.

From France. Plants presented by the Institut de Recherches du Coton, et des Textiles Exotiques, Paris. Received May 20, 1955.

225847. *BOEHMERIA NIVEA* (L.) Gaud. Urticaceae.

Ramie.

NB STAT.

225848. *BOEHMERIA PLATYPHYLLA* D. Don

African falsenettle.

225849. *BOEHMERIA UTILIS* Diebard.**225850. ORMOSIA** sp. Fabaceae.

From Jamaica. Seed presented by the Institute of Jamaica, Kingston. Received May 20, 1955.

225851. VERNONIA ANTHELMINTICA Willd. Asteraceae.**Kinkaoil ironweed.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received May 20, 1955.

225852 to 225872.

From Denmark. Seeds presented by J. E. Ohlsens Enke, Copenhagen. Received May 20, 1955.

225852 and 225853. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae.

Cauliflower.

225852. 'Erfurt No. 118'.

225853. 'Snowball'.

225854 to 225862. *BRASSICA OLERACEA* var. *CAPITATA* L.

Cabbage.

225854. 'Gluckstadt'.

225855. 'Golden Acre No. 84'.

225856. 'Golden Acre No. 409'. (Very early.)

225857. 'Jersey Wakefield No. 422'.

225852 to 225872—Continued**225854 to 225862—Continued**

225858. 'Kissendrup No. 217'. (Red).

225859. 'Primavera'.

225860. 'September'.

225861. 'Triumph'.

225862. 'Winningstadt'.

225863 to 225865. BRASSICA OLERACEA var. GONGYLODES L.

Kohlrabi.

225863. 'Ozean'.

225864. 'Treib Blue'.

225865. 'Treib White'.

225866 to 225872. DAUCUS CAROTA L. Apiaceae.

Carrot.

225866. 'Amager No. 23'. 225870. 'Nantes No. 20'.

225867. 'Amsterdam No. 378'. 225871. 'Nantes No. 38'.

225868. 'Chantenay Red Core No. 36'. 225872. 'Touchon No. 26'.

225869. 'Gonsenheimer No. 412'.

225873. COFFEA LIBERICA Bull. Rubiaceae.

Liberian coffee.

From Honduras. Seeds presented by K. J. Davidson, Lancetilla. Received May 23, 1955.

225874 to 225936.

From Africa. Seeds collected by J. S. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 23, 1955.

Collected March and April, 1955.

225874 and 225875. ALYSICARPUS RUGOSUS (Willd.) DC. Fabaceae.

225874. Col. No. 156. Victoria Falls, Northern Rhodesia. Upright, to 5 feet high.

225875. Col. No. 217. Open field near Tabora, Tanganyika. Plants upright, to 5 feet high.

225876. BEGONIA sp. Begoniaceae.

Col. No. 202. Garden, Abercorn, Northern Rhodesia. Plant to 4 feet high; flowers bright red.

225877. CAESALPINIA SEPIARIA Roxb. Caesalpinaceae.

Mysore thorn.

Col. No. 198. Growing in hedge, Abercorn, Northern Rhodesia. Bush to 15 feet high.

225878. CASSIA ABSUS L. Caesalpinaceae.

Col. No. 137. Ten miles from Lusaka, Northern Rhodesia. Plant about 2 feet high.

225879. CENCHRUS sp. Poaceae.

Col. No. 205. In woods, 10 miles from Abercorn, Northern Rhodesia. Plant upright, to 4 feet high.

225880. CHLORIS VIRGATA Swartz Poaceae.

Col. No. 223. In park at Tabora, Tanganyika. To 4 feet high.

225881. CROTALARIA INTERMEDIA Kotschy Fabaceae.

Col. No. 187. Along road from Lusaka to Broken Hill, Northern Rhodesia. Plants to 5 feet high.

225874 to 225936—Continued**225882.** CROTALARIA sp.

Col. No. 152. Along road near Victoria Falls, Northern Rhodesia. Plant sprawling.

225883. CROTALARIA sp.

Col. No. 162. In open woods, Victoria Falls, Northern Rhodesia. Prostrate annual.

225884. CROTALARIA sp.

Col. No. 184. Ten miles north of Lusaka, Northern Rhodesia. Plants to 5 feet high.

225885. CROTALARIA sp.

Col. No. 192. Twenty miles north of Mkushi, Northern Rhodesia. A sprawling, bushy plant, to 18 inches high.

225886. CROTALARIA sp.

Col. No. 194. Ten miles north of Lusaka, Northern Rhodesia. Plants about 3 feet high, bushy.

225887. CROTALARIA sp.

Col. No. 218. Edge of native garden, Tabora, Tanganyika. Plants to 4 feet high, upright, bushy.

225888. CROTALARIA sp.

Col. No. 225. Mpwapwa Experiment Station, Tanganyika. Plant small, semi-prostrate; good for grazing.

225889. DACTYLOCTENIUM AEGYPTIUM (L.) Beauv. Poaceae.**Durban crowfootgrass.**

Col. No. 182. Roadside, 30 miles east of Serenji, Northern Rhodesia. Plants to 18 inches high.

225890. DESMODIUM TORTUOSUM (Sw.) DC. Fabaceae.**Tickclover.**

Col. No. 208. In park Tabora, Tanganyika. Plant upright, to 3 feet high.

225891. DIGITARIA sp. Poaceae.

Col. No. 203. Seven miles from Abercorn, Northern Rhodesia. Grass to 2 feet high with rhizomes.

225892. ELEUSINE CORACANA (L.) Gaertn. Poaceae.**Ragi.**

Col. No. 196. Shiwa Ngandu, Northern Rhodesia. About 2 feet high.

225893. ERIOSEMA sp. Fabaceae.

Col. No. 117. Salisbury, Southern Rhodesia. Plants stiff, upright, to 2 feet high

225894. HETEROPOGON sp. Poaceae.

Col. No. 94. Rocky hill, Salisbury, Southern Rhodesia. Plants to 2.5 feet high; upright bunchgrass.

225895. HETEROPOGON sp.

Col. No. 188. Roadside near Broken Hill, Northern Rhodesia. About 7 feet high.

225896. HETEROPOGON sp.

Col. No. 193. Around Abercorn, Northern Rhodesia. Plants to 4 feet high

225897 and 225898. INDIGOFERA ECHINATA Willd. Fabaceae.**Indigo.**

225897. Col. No. 185. Roadside near Sirinji Experiment Station, Northern Rhodesia. Prostrate legume.

225898. Col. No. 215. Around Tabora, Tanganyika. Plant spreading, to 3 feet high.

225874 to 225936—Continued

225899. INDIGOFERA sp.

Col. No. 177. Ten miles north of Lusaka, Northern Rhodesia. Plant prostrate, leafy; heavy seeder.

225900. INDIGOFERA sp.

Col. No. 214. Tabora, Tanganyika. Plant very prostrate, semivine.

225901. INDIGOFERA sp.

Col. No. 219. Open field near Tabora, Tanganyika. Plant upright, woody, to 4 feet high.

225902. SESAMUM RADIATUM Schum. Pedaliaceae.

Col. No. 106. Roadside near Salisbury, Southern Rhodesia.

225903. SESAMUM sp.

Col. No. 221. Tabora, Tanganyika. Plants to 5 feet high.

225904. SETARIA sp.

Col. No. 143. Experiment Station, 10 miles from Lusaka, Northern Rhodesia. Plant 4 feet high, with about 10 stems.

225905. SORGHUM ARUNDINACEUM (Willd.) Stapf Poaceae. **Kamerunggrass.**

Col. No. 178. Road between Lusaka and Broken Hill, Northern Rhodesia. Plants to 8 feet high.

225906. SORGHUM VULGARE Pers. Poaceae.

Col. No. 138. Ten miles from Lusaka, Northern Rhodesia. Plants to 8 feet high.

225907. SORGHUM VERSICOLOR Anderss.

Col. No. 146. Around Victoria Falls, Northern Rhodesia. Plants to 7 feet high.

225908 and 225909. SPOROBOLUS PYRAMIDALIS Beauv. Poaceae.

Whorled dropseed.

225908. Col. No. 222. Park at Tabora, Tanganyika. Plants to 6 feet high.

225909. Col. No. 40. Pretoria, Transvaal. Plant wild, along roadside, about 3 feet high.

225910. STYLOSANTHES sp. Fabaceae.

Col. No. 206. In park at Tabora, Tanganyika. Plants semiprostrate, to 4 feet high; flowers light yellow.

225911. TEPHROSIA sp. Fabaceae.

Col. No. 115. Tobacco Research Land, Salisbury, Southern Rhodesia. Plants prostrate, spreading, to 4 feet high.

225912. TEPHROSIA sp.

Col. No. 116. Tobacco Research Station, 10 miles south of Salisbury, Southern Rhodesia. Plant very prostrate.

225913. TEPHROSIA sp.

Col. No. 140. Bank 8 miles from Lusaka, Northern Rhodesia. Plant to 24 inches high, semitrailing.

225914. TEPHROSIA sp.

Col. No. 166. Near Victoria Falls, Northern Rhodesia. Small vine to 6 feet high: forms dense mass.

225915. TEPHROSIA sp.

Col. No. 191. Along roadside 20 miles north of Lusaka, Northern Rhodesia. Bushy, woody legume, to 4 feet high.

225916. TEPHROSIA sp.

Col. No. 207. In park at Tabora, Tanganyika. Plant prostrate, stems about 3 feet long.

225874 to 225936—Continued**225917.** *TEPHROSIA* sp.

Col. No. 216. Park at Tabora, Tanganyika. Plants upright, about 4 feet high.

225918. *TEPHROSIA* sp.

Col. No. 161. Near Victoria Falls, Northern Rhodesia. Plants to 2 feet high.

225919. *TETRASTIGMA* sp. Vitaceae.

Col. No. 150. Herbaceous vines climbing on trees in open woods near Victoria Falls; soil poor, dry; fruit in clusters, up to 0.5 inch in diameter; roots tuberous; not frost hardy. For breeding work and cytogenetic studies.

225920. *TRICHOLAENA REPENS* (Willd.) Hitchc. Poaceae. **Natalgrass.**

Col. No. 199. Near Mpkia on roadside, Northern Rhodesia. Plants to 3 feet high; panicles more dense than usual.

225921 to 225923. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.****225921.** Col. No. 135. East Africa. Plant rather hardy, used as cover crop.**225922.** Col. No. 136. Lusaka, Northern Rhodesia. Used as cover crop.**225923.** Col. No. 186. Twenty miles north of Broken Hill, Northern Rhodesia.

Vines vigorous, to 15 feet long.

225924. *VIGNA* sp.

Col. No. 113. Near Tobacco Research Station, Salisbury, Southern Rhodesia. Prostrate plant, spreading to 4 feet.

225925. *VIGNA* sp.

Col. No. 134. Field, 10 miles from Lusaka, Northern Rhodesia.

225926. *VIGNA* sp.

Col. No. 163. Near Victoria Falls, Northern Rhodesia. Vines spreading about 10 feet.

225927. *VIGNA* sp.

Col. No. 181. On roadside 20 miles north of Lusaka, Northern Rhodesia. Vines large, wild, to 15 feet long.

225928. *VIGNA* sp.

Col. No. 183. Roadside 10 miles north of Lusaka, Northern Rhodesia. Vines climbing on bushes, to 15 feet long.

225929. *VIGNA* sp.

Col. No. 200. Abercorn, Northern Rhodesia. Vines up to 10 feet long.

225930 and 225931. *ZORNIA DIPHYLLA* (L.) Pers. Fabaceae.**225930.** Col. No. 102. Ten miles from Salisbury, Southern Rhodesia. Prostrate legume.**225931.** Col. No. 153. Victoria Falls, Northern Rhodesia. Common legume in fields and open woods.**225932.** (Undetermined.) Fabaceae.

Col. No. 96. Forty miles east of Salisbury, Southern Rhodesia. Legume to 3 feet high.

225933. (Undetermined.)

Col. No. 104. Ten miles from Salisbury, Southern Rhodesia. Trailing legume to 7 feet long. Flowers red and yellow, fairly large.

225934. *VIGNA VEXILLATA* (L.) A. Rich. Fabaceae.

Col. No. 133. Ten miles from Lusaka, Northern Rhodesia. Vines up to 10 feet long.

225874 to 225936—Continued

225935. (Undetermined.)

Col. No. 139. Five miles from Lusaka, Northern Rhodesia. Vines about 8 feet long.

225936. (Undetermined.)

Col. No. 164. Near Victoria Falls, Northern Rhodesia. Vines ornamental; berries deep red, about 0.5 inch in diameter.

225937. *DAUCUS CAROTA* L. *Apiaceae*. **Carrot.**

From Sweden. Seeds presented by Sveriges Utsadesforening, Svalov. Received May 25, 1955.

225938 to 225953.

From Iran. Plant material collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 24, 1955.

Collected May, 1955.

225938. *APLUDA* sp. *Poaceae*.

Col. No. 14815. Thirty miles south of Sirjan, along road to Bandar-Abbas. Sand wash in level valley. Elevation 5,800 feet. Perennial forming large clumps. (Plants.)

225939. *ARISTIDA* sp. *Poaceae*.

Col. No. 14825. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Small xerophytic perennial. (Plants.)

225940. *CYMBOPOGON* sp. *Poaceae*.

Col. No. 14824. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Perennial xerophyte in scattered tufts. (Plants.)

225941. *CYNODON DACTYLON* (L.) Pers. *Poaceae*. **Bermudagrass.**

Col. No. 14841. From Bradsu, very dry region. (Stolons.)

225942. *ENNEAPOGON* sp. *Poaceae*.

Col. No. 14826. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Tufted perennial on dry rocky slopes. (Plants.)

225943. *IRIS* sp. *Iridaceae*.

Col. No. 14834. Range plot in Sirjan Valley. Scattered in clumps on open plain. (Plants.)

225944. *IRIS* sp.

Col. No. 14839. About 21 miles east of Sirjan along road to Kerman. Elevation 8,000 feet. Flowers lavender, some with inner segments purple. (Plants.)

225945. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. *Poaceae*. **Ricegrass.**

Col. No. 14809. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Perennial; culms brittle, soft. (Plants.)

225946 to 225948. *POA BULBOSA* L. *Poaceae*. **Bulbous bluegrass.**

225946. Col. No. 14812. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Grows among rocks. (Plants.)

225947. Col. No. 14810. Thirty-six miles southeast of Kerman along road to Bam. Perennial. (Plants.)

225948. Col. No. 14811. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Perennial; stems taller and more succulent than Col. No. 14810. (Plants.)

225938 to 225953—Continued

225949. *STIPA* sp. Poaceae.

Col. No. 14814. Thirty miles south of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Perennial; crown small, leafy; in scattered tufts. Grazed only by gazelles. (Plants.)

225950. *STIPA* sp.

Col. No. 14828. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Xerophytic perennial on rocky slopes in ungrazed area. (Plants.)

225951. *STIPA* sp.

Col. No. 1. From between Bardesir and Sirjan, in very dry region. (Stolons.)
225952. (Undetermined.) Apiaceae.

Col. No. 14813. Thirty-six miles southeast of Kerman along road to Bam, Elevation 8,400 feet. Herb; attractive perennial; roots deep; leaves feathery, glaucous, appressed to ground.

225953. (Undetermined.) Poaceae.

Col. No. 14827. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Perennial xerophytic grass. (Plants.)

225954 to 225958.

From Ethiopia. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 25, 1955.

Collected May, 1955.

225954. *CYNODON* sp. Poaceae.

Col. No. 351. Thirty miles south of Sciasciamanna, near Lake Abaya. Plant stoloniferous but not rhizomatous; well adapted to dry conditions; heavily grazed.

225955. *CYNODON* sp.

Col. No. 352. Five miles north of Sciasciamann. Very important grazing area.

225956. *CYNODON DACTYLON* (L.) Pers.

Bermudagrass.

Col. No. 353. Near Lake Langana. Growing in shallow limestone soil among rocks; heavily grazed.

225957. *CYNODON* sp.

Col. No. 354. Sciasciamanna. Plant stoloniferous; stems purple; leaves hairy; vigorous growth in moist red soil.

225958. *CYNODON* sp.

Col. No. 355. Addis Ababa. Growing in good red soil along side streets; sometimes mixed with 'Kikuyu' grass; heavily grazed.

225959 to 225966.

From Egypt. Seeds presented by the United States Operations Mission to Egypt, Cairo. Received May 25, 1955.

225959. *CONVOLVULUS LANATUS* Vahl Convolvulaceae.

Soil dry, sandy, 3 to 6 inches annual rainfall; plant winter grown; highly palatable.

225960. *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth) Duby Poaceae.

Growing in medium to heavy soil, 3 to 6 inches annual rainfall; important forage plant.

225961. *KOCHIA INDICA* Wight Chenopodiaceae.

Annual, to 6 feet high; germinates on winter rainfall of 3 to 6 inches; fairly palatable forage. Originally from India.

225959 to 225966—Continued

225962. *MORICANDIA NITENS* Dur. & Barr. Brassicaceae.

Shrub, highly palatable forage; excellent stand obtained with 3 to 7 inches annual rainfall.

225963. *PITURANTHOS TORTUOSUS* (DC.) Benth. & Hook. f. Apiaceae.

Shrub, palatable; grows with annual rainfall from 1 to 6 inches.

225964. *PLANTAGO ALBICANS* L. Plantaginaceae.

Plantain.

Perennial; to 24 inches high; important source of sheep forage in west Egypt; prefers sandy soil; annual rainfall 3 to 6 inches.

225965. *POLYGONUM EQUISETIFORME* Sibth. & Smith. Polygonaceae. **Knotweed.**

Woody perennial. An important forage plant in soil of all textures; rainfall 3 to 6 inches.

225966. *STIPA LAGASCAE* Roem. & Schult. Poaceae.

Needlegrass.

225967 to 225970. *NICOTIANA TABACUM* L. Solanaceae.

Tobacco.

From Yugoslavia. Seeds presented by the American Embassy, Belgrade. Received May 25, 1955.

225967. 'Bubalovac No. 2'. Growing season somewhat longer than 150 days.

225968. 'Mresko No. 4'. Late maturing; yields abundantly.

225969. 'Ravnjak No. 1'. Growing season from 120 to 150 days.

225970. 'Tance No. 3'. Matures earlier than 120 to 150 days.

225971 to 225982. *NICOTIANA TABACUM* L. Solanaceae.

Tobacco.

From Yugoslavia. Seeds presented by the Tobacco Institute, Belgrade. Received May 25, 1955.

225971. 'Bajina Basta Jaka No. 8'. Grown in Serbia, Bajina Basta Region.

225972. 'Blatec No. 5'. Grown in Macedonia.

225973. 'Debrecin No. 12'. Grown in Serbia.

225974. 'Jaka Kireciler No. 1'. Grown in Macedonia and Serbia.

225975. 'Nova Crnja No. 11'. Grown in Serbia.

225976. 'Otlja No. 3'. Grown in Macedonia and Serbia.

225977. 'Prilep No. 2'. Grown in Macedonia and Serbia.

225978. 'Prosocani No. 9a and 9b'. Grown in Krusevac-Krusevacki Prosocan and Zitkovac Regions.

225979. 'Ravnjak No. 6'. Grown in Bosnia, Herzegovina, Montenegro and Croatia.

225980. 'Segedin Rose No. 10'. Grown in Serbia, Vojvodina Region.

225981. 'Tance No. 7'. Grown in Bosnia, Herzegovina, Montenegro, and Croatia.

225982. 'Zletovo No. 4'. Grown in Macedonia.

225983. *ORMOSIA KRÜGII* Urban Fabaceae.

From Puerto Rico. Seeds presented by the United States Forest Service, Rio Piedras. Received May 25, 1955.

No. 1.

225984. *CALLUNA VULGARIS* (L.) Salisb. Ericaceae. **Scotch heather.**

From Great Britain. Seeds presented by Thompson and Morgan, Limited, Ipswich, England. Received May 26, 1955.

225985 to 226002.

From Japan. Seeds presented by the Kyushu University, Fukuoka. Received May 26, 1955.

225985. *AGROPYRON SEMICOSTATUS* (Steud.) Nees ex Boiss. Poaceae. **Drooping wheatgrass.**
'Kamojigusa'.
225986. *ARTHAXON HISPIDUS* (Thunb.) Makino. Poaceae.
'Kobunagusa'.
225987. *ARUNDINELLA* sp. Poaceae.
'Todashiba'.
225988. *BROMUS PAUCIFLORUS* (Thunb.) Hack. Poaceae. **Brome.**
'Kitsunegaya'.
225989. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
'Gyogishiba'.
225990. *DIGITARIA CILIARIS* (Retz.) Koel. Poaceae. **Crabgrass.**
'Mehishiba'.
225991. *INDIGOFERA PSEUDOTINCTORIA* Mats. Fabaceae. **Indigo.**
'Komatsunagi'.
225992. *MISCANTHUS SINENSIS* Anders. Poaceae. **Chinese silvergrass.**
'Murasakiusuki'.
225993. *MUHLENBERGIA JAPONICA* Steud. Poaceae. **Muhly.**
'Nezumigaya'.
225994. *OPLISMENUS UNDULATIFOLIUS* (Ard.) Roem. & Schult. Poaceae.
'Chizimizasa'.
225995. *PANICUM BISULCATUM* Thunb. Poaceae.
'Nukakibi'.
225996. *PASPALUM THUNBERGII* Kunth Poaceae.
'Suzumenohie'.
225997. *PENNISETUM JAPONICUM* Trin. Poaceae.
'Chikarashiba'.
225998. *SETARIA VIRIDIS* (L.) Beauv. Poaceae. **Green bristlegrass.**
'Enokorogusa'.
225999. *SPOROBOLUS ELONGATUS* R. Br. Poaceae.
'Nezuminoo'.
226000. *VICIA CRACCA* L. Fabaceae. **Bird vetch.**
'Kusafuji'.
226001. *VICIA NIPPONICA* Matsum. **Vetch.**
'Yotsubahagi'.
226002. *VICIA* sp.
'Oobakusafuji'.
226003. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**
From the Union of South Africa. Cuttings presented by Magnus V. Hopkins, Lan-
gerug, Worcester, Cape Province. Received May 27, 1955.
'Caroline Hopkins'.

226004 to 226007. CHENOPODIUM PALLIDICAULE Aellen Chenopodiaceae.

From Peru. Seeds presented by the Agricultural Experimentation Mission, American Embassy, Lima. Received May 27, 1955.

Collected at Huancayo.

226004. 'Morado'.

226006. White.

226005. 'Rosada'.

226007. Yellow strain.

226008 and 226009.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 27, 1955.

226008. LATHYRUS OCHRUS (L.) DC. Fabaceae.

Peavine.

'Louvana'. Originally from Palestine.

226009. SORGHUM SUDANENSE (Piper) Staf Poaceae.

Sudangrass.

S.S.6. Selected from 'Barkers Cut Sweet Sudan' in 1945. Originally from the Agricultural Experiment Station, College Station, Tex.

226010 to 226012. CYNODON PLECTOSTACHYUS (Schum.) Pilg. Poaceae.

From Southern Rhodesia. Seeds presented by the Department of Research and Specialist Services, Causeway. Received May 27, 1955.

226010. 'Mount Elgon Star'. No. 2620.

226011. 'Naivasha Star'. No. 2621.

226012. 'Star Grass No. 2'. No. 2619.

226013 to 226027. HELIANTHUS ANNUUS L. Asteraceae. **Sunflower.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received May 27, 1955.

226013. 'Klein'. Originally from Argentina.

226014. 'La Estanzuela'.

226015. 'Mammoth Russian'.

226016. 'Sunrise'. Originally from Canada.

226017. LM 54-55-20 × s 37-388 I.

226018. LM 54-55-11 × s 37-388 II.

226019. LM 54-55-15 × S 37-388 II.

226020. LM 54-55-11 × S 37-388 III.

226021. LM 54-55-8 × 'Sunrise III'.

226022. LM 55-55-6 × 'Sunrise III'.

226023. LM 55-55-5 × 'Sunrise VI'.

226024. LM 55-55-1 × 'Sunrise VI'.

226025. LM 55-55-1 × 'Sunrise VII'.

226026. 'F1 Mammoth Russian'.

226027. 'F2 Mammoth Russian' × 953-102.

226028 to 226030 CARICA PAPAYA L. Caricaceae.

Papaya.

From Peru. Seeds presented by the United States Operations Mission, Lima. Received May 27, 1955.

Collected by A. F. Riefsnyder, Ahuaytia River Mission, near Tingo Maria.

226028. No. 1.

226029. No. 2.

226030. No. 3.

226031 and 226032.

From Austria. Seeds presented by the Hoyos Sprinzenstein'sche Forstversaltung, Gutenstein. Received May 31, 1955.

226031. PINUS NIGRA var. AUSTRIACA (Hoess) C. Schneid. Pinaceae.

Austrian pine.

226032. PINUS SYLVESTRIS L.

Scotch pine.

226033 to 226036 PHASEOLUS VULGARIS L. Fabaceae. Common bean.

From Switzerland. Seeds presented by Tatter Samen, Bern. Received May 31, 1955.

226033. No. A.

226035. No. 8.

226034. No. C.

226036. No. 12.

226037 to 226042.

From the Canary Islands. Seeds presented by the Jardin de Acclimatacion, Puerto de Cruz Tenerife. Received May 31, 1955.

226037. DATURA CONIGERA Hook. Solanaceae.

Horned datura.

226038. DATURA INSIGNIS Barb. Rodr.

226039. DATURA SANGUINEA Ruiz. & Pav.

Red floripondia.

226040. DATURA SUAVEOLENS Humb. & Bonpl.

Angeltears datura.

226041. DATURA sp.

226042. DATURA sp.

226043. DAUCUS CAROTA L. Apiaceae.

Carrot.

From Japan. Seeds presented by the Akita Agricultural Experiment Station, Izumi, Akita. Received June 1, 1955.

'San Nai No. 1954.8'.

226044. MYRICA CERIFERA L. Myricaceae.

From Nicaragua. Seeds presented by the Ministry of Agriculture, Managua. Received June 1, 1955.

Grown at altitudes of 2,000 to 3,000 feet in poor soil. Seeds used in soap manufacture and for medicinal purposes.

226045. STIPA TENACISSIMA L. Poaceae.

Needlegrass.

From Morocco. Seeds presented by the Center de Recherches Agronomiques, Rabat. Received June 1, 1955.

226046 to 226106.

From British East Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 1, 1955.

From Kitale, Kenya, unless otherwise noted. April 29, 1955.

226046. ANDROPOGON CHRYSOSTACHYS Steud. Poaceae.

Bluestem.

Col. No. 254. K. 52475. Vigorous bunchgrass.

226047. ANDROPOGON SCHINZII Hack.

Bluestem.

Col. No. 257. K. 52354. Tufted perennial.

226048. BECKEROPSIS UNISETA K. Schum. Poaceae.

Col. No. 258. K. 52497. Tall tufted perennial.

226049 and 226050. BRACHIARIA BRIZANTHA (Hochst.) Stapf Poaceae.

Palisade signalgrass.

226049. Col. No. 259. K. 52324. Semi-erect; hardy selection.

226050. Col. No. 288. K. 52320. Heavy-producing, low spreading type.

226046 to 226106—Continued

- 226051.** *CENCHRUS SETIGERUS* Vahl Poaceae. **Sandbur.**
Col. No. 291. K. 53636. Tufted perennial; good yielding type.
- 226052.** *CHLORIS GAYANA* Kunth Poaceae. **Rhodesgrass.**
Col. No. 274. K. 51232. 'Giant Emson' strain.
- 226053.** *CROTALARIA* sp. Fabaceae.
Col. No. 179. Roadside about 10 miles from Sirinji Experiment Station, Northern Rhodesia. Mar. 31, 1955. Plants woody, to 8 feet in height.
- 226054.** *CROTALARIA* sp.
Col. No. 337. K. 53605. Erect-bushy annual.
- 226055 to 226062.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
- 226055.** Col. No. 277. K. 51415. Fairly good seeder, large type.
- 226056.** Col. No. 278. K. 51407. Fine type.
- 226057.** Col. No. 279. K. 52471. Medium type.
- 226058.** Col. No. 280. K. 51431. Medium type.
- 226059.** Col. No. 281. K. 52447. Medium type.
- 226060.** Col. No. 282. K. 52462.
- 226061.** Col. No. 287. K. 52416.
- 226062.** Col. No. 294. K. 51432. Medium type.
- 226063.** *CYNODON* sp.
Col. No. 283. K. 52424.
- 226064.** *CYNODON* sp.
Col. No. 284. K. 52350.
- 226065.** *ECHINOCHLOA HAPLOCLADA* Stapf Poaceae.
Col. No. 260. K. 53542. A promising selection.
- 226066.** *ECHINOCHLOA PYRAMIDALIS* (Lam.) Hitchc. & Chase
Col. No. 270. K. 52469. A promising selection.
- 226067.** *ELEUSINE MULTIFLORA* Hochst. Poaceae.
Col. No. 293. K. 54142.
- 226068.** *ENTEROPOGON MACROSTACHYUS* Benth. Poaceae.
Col. No. 256. K. 53523. Tufted perennial.
- 226069.** *ERAGROSTIS CAESPITOSA* Chiov. Poaceae. **Lovegrass.**
Col. No. 268. K. 5267. Small tufted perennial; promising for grazing; good yielder.
- 226070.** *ERAGROSTIS CHLOROMELAS* Steud. **Lovegrass.**
Col. No. 292. K. 50150. Vigorous tufted perennial.
- 226071 and 226072.** *ERAGROSTIS CURVULA* (Schrad.) Nees **Lovegrass.**
- 226071.** Col. No. 267. K. 5268. Selection from Nairobi, heavy producer and vigorous.
- 226072.** Col. No. 269. K. 5585. Vigorous type from Southern Rhodesia.
- 226073.** *ERAGROSTIS LEHMANNIANA* Nees **Lovegrass.**
Col. No. 253. K. 50148. Originally from Tanganyika. Makes vigorous growth; semiprostrate.

226046 to 226106—Continued

- 226074.** *ERAGROSTIS SUPERBA* Peyr. **Lovegrass.**
Col. No. 266. K. 53836. Plant vigorous.
- 226075 and 226076.** *HYPARRHENIA LINTONII* Stapf Poaceae.
226075. Col. No. 272. Dense, bunch type; leaves short, fine.
226076. Col. No. 275. K.52352. Smallest type; leaves fine, dense, bunchgrass.
- 226077.** *LEPTOCHLOA OBTUSIFLORA* Hochst. Poaceae.
Col. No. 262. K.5133. Tufted perennial.
- 226078.** *MEDICAGO ORBICULARIS* (L.) All. Fabaceae. **Buttonclover.**
Col. No. 313. K.53606. Vigorous annual.
- 226079 and 226080.** *MELINIS MINUTIFLORA* Beauv. Poaceae. **Molassesgrass.**
226079. Col. No. 263. K.52294. Vigorous, local selection.
226080. Col. No. 264. K.54149. One of the better strains.
- 226081 to 226084.** *PANICUM MAXIMUM* Jacq. Poaceae. **Guineagrass.**
226081. Col. No. 289. K.50201. Yield good.
226082. Col. No. 296. K.52128. Large type; yield good.
226083. Col. No. 297. K.51363. Vigorous; yield heavy.
226084. Col. No. 298. K.51343. Malaba strain; vigorous selection.
- 226085.** *PANICUM SWYNNERTONII* Rendle
Col. No. 295. K.53223.
- 226086.** *PANICUM* sp.
Col. No. 147. Near Victoria Falls, Northern Rhodesia. Mar. 27, 1955. Perennial grass to 18 inches high.
- 226087 to 226090.** *PENNISETUM CILIARE* (L.) Link Poaceae. **Buffelgrass.**
226087. Col. No. 255. K.52131. Yield heavy.
226088. Col. No. 261. K.5146. Low-growing, dense bunch type; leaves fine, tender.
226089. Col. No. 285. K.5148. Upright type; yield good.
226090. Col. No. 286. K.52232. Selected for vigorous yield.
- 226091.** *PENNISETUM POLYSTACHION* (L.) Schult. Poaceae.
Col. No. 290. K.53532. Promising for grazing; tufted perennial.
- 226092.** *RUMEX* sp. Polygonaceae.
Col. No. 189. Along roadside between Broken Hill and Serenje, Northern Rhodesia. Mar. 30, 1955. Plants to 8 feet high.
- 226093.** *SACCIOLEPIS* sp. Poaceae.
Col. No. 233. Mbumo Experiment Station, Northern Rhodesia. Apr. 4, 1955. Growing around edge of pond.
- 226094.** *SESBANIA CINERASCENS* Welw. Fabaceae.
Col. No. 190. Near Mkushi, Northern Rhodesia. Plants to 20 feet high, 3 inches in diameter; profusely branched; flowers yellow; soil wet.
- 226095.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. Poaceae. **Millet.**
Col. No. 299. K.53175. 'Nandi'. Vigorous, leafy type; yield heavy.
- 226096.** *SORGHUM VERTICILLIFLORUM* (Steud.) Stapf Poaceae.
Col. No. 265. K.50188. Perennial type.

226046 to 226106—Continued

226097. *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 273.

226098. *SPOROBOLUS PHYLLOTRICHUS* Hochst. Poaceae.

Dropseed.

Col. No. 271. K.5279. Perennial, dense low cover. Promising for grazing in dry area where other grasses do not thrive.

226099. *STIZOLOBIUM* sp. Fabaceae.

Col. No. 302. K.52286. Local variety used as cover crop.

226100. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae.

Berseem clover.

Col. No. 332. K.52184.

226101. *TRIFOLIUM CHERANGANIENSE* Gillett

Clover.

Col. No. 330. K.50112. Semi-prostrate or creeping perennial.

226102. *TRIFOLIUM REPENS* L.

Whiteclover.

Col. No. 329. K.5181. Drought resistant.

226103. *UROCHLOA BOLBODES* (Steud.) Stapf Poaceae.

Col. No. 276. K.50165. Tufted perennial; originally from Tanganyika.

226104 and 226105. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

226104. Col. No. 314. K.53927. Used for cover crop and food.

226105. Col. No. 325. K.53929. Commonly grown in native gardens for food.

226106. *VIGNA CYLINDRICA* (L.) Skeels

Catjang-pea.

Col. No. 318. K.53928. Widely grown as food.

226107 and 226108. *THEOBROMA CACA* L. Stereuliaceae.

Cacao.

From Costa Rica. Pods presented by the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received June 2, 1955.

226107. No. 221.

226108. No. 667.

226109 to 226150.

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 3, 1955.

Collected May, 1955.

226109 to 226111. *CAMELLIA JAPONICA* L. Theaceae.

Common camellia.

226109. Col. No. 6. Wooded slope of Oonami-ike. Elevation 3,200 feet. Tree to 20 feet high, in full bloom; flowers 1.5 inches in diameter, single, red.

226110. Col. No. 7. Wooded slope of Oonami-ike. Elevation 3,800 feet. Tree to 20 feet high.

226111. Col. No. 8. Wooded slope of Oonami-ike. Elevation 4,100 feet. Large tree, about 8 inches in diameter; flowers red, single.

226112. *CLERODENDRUM* sp. Verbenaceae.

Col. No. 20. Hot Springs Utilization Station, above Beppu, Kyushu. Stems red; flowers carmine.

226113. *CREMASTRA* sp. Orchidaceae.

Col. No. 24. Mount Fudendake, Unsen. Elevation 4,300 feet. Terrestrial orchid; leaves lanceolate; basal flowers small, yellow.

226114 and 226115. *CRYPTOMERIA JAPONICA* (L.f.) D. Don Pinaceae.

Common cryptomeria.

226109 to 226150—Continued**226114 to 226115—Continued**

226114. Col. No. 37. 'Kinasugi'. Horticultural Field Station, Kurume, Kyushu. Dwarf form with yellow tips.

226115. Col. No. 38. Ho-o-sugi. Horticultural Field Station, Kurume, Kyushu. Form with frondlike branches.

226116. *EUONYMUS FORTUNEI* var. *RADICANS* (Mig.) Rehd. Celastraceae. **Wintercreeper.**

Col. No. 23. Hot Springs Utilization Station, Beppu, Kyushu. Leaves variegated.

226117. *EUONYMUS JAPONICUS* L. **Evergreen burningbush.**

Col. No. 22. 'Variegata'. Hot Springs Utilization Station, Beppu, Kyushu.

226118. *GARDENIA AUGUSTA* (L.) Merr. Rubiaceae.

Col. No. 39. Horticultural Field Station, Kurume, Kyushu. Dwarf variegated form.

226119. *HYDRANGEA SCANDENS* Maxim. Hydrangeaceae.

Col. No. 28. Mount Kojigoka, Kyushu. Elevation 3,200 feet. Species with large bracts.

226120 to 226129. *ILEX CRENATA* Thunb. Aquifoliaceae. **Japanese holly.**

226120. Col. No. 9. Slope of Mount Ooname, at edge of crater. Elevation 4,200 feet. Plant upright, to 18 inches high; leaves very small.

226121. Col. No. 10. Open meadow at top of Mount Ooname. Elevation 4,700 feet. Plant dwarf; leaves small.

226122. Col. No. 14. Mount Korakum, Kirishima. Elevation 4,900 feet. Plant twiggy and slow-growing; leaves very small.

226123 to 226128. From Mount Miyoken, Kyushu. Elevation 4,350 feet.

226123. Col. No. 30. Upright habit; large-leaf form.

226124. Col. No. 31. Spreading; leaves medium size.

226125. Col. No. 32. Dense habit; leaves round.

226126. Col. No. 33. Upright habit; leaves narrow.

226127. Col. No. 34. Plant vigorous; leaves large.

226128. Col. No. 35. Dwarf habit; leaves small.

226129. Col. No. 43. Horticultural Field Station, Kurume, Kyushu. Leaves yellow-spotted.

226130. *IRIS PSEUDACORUS* L. Iridaceae. **Yellowflag iris.**

Col. No. 21. Hot springs Utilization Station, Beppu, Kyushu. Flowers double, yellow.

226131. *ITEA JAPONICA* Oliv. Escalloniaceae.

Col. No. 19. Hot springs Utilization Station, Beppu, Kyushu. Dwarf form.

226132. *LYCORIS ALBIFLORA* Koidz. Amaryllidaceae.

Col. No. 36. Horticultural Field Station, Kurume, Kyushu.

226133. *OSMANTHUS FORTUNEI* Carr. Oleaceae.

Col. No. 41. Horticultural Field Station, Kurume, Kyushu. Variegated form.

226134 and 226135. *OSMANTHUS HETEROPHYLLUS* (G. Don) P. S. Green

226134. Col. No. 40. Horticultural Field Station, Kurume, Kyushu. Leaves dark green and white variegated.

226135. Col. No. 42. Horticultural Field Station, Kurume, Kyushu. Leaves pale green and white variegated.

226109 to 226150—Continued

226136. *PHOTINIA GLABRA* (Thunb.) Max. Malaceae.

Col. No. 44. Horticultural Field Station, Kurume, Kyushu. Form with brilliant red young growth.

226137. *ROSA* sp. Rosaceae.

Col. No. 4. Mount Sakurajima. Elevation 140 feet. Upright shrub, to 5 feet high; stems with some spines; young growth densely covered with reddish spines; flowers pink.

226138. *RHODODENDRON KEISKEI* Miq. Ericaceae.

Col. No. 25. Cliffs of Fuden-Dake. Elevation 4,280 feet. Typical form; flowers yellow.

226139. *RHODODENDRON OBTUSUM* (Lindl.) Planch.

Hiryu azalea.

Col. No. 5. Mount Sakurijima. Elevation 260 feet. Shrub to 24 inches high. Winter leaves obovate, dark green; summer leaves more elliptic.

226140 to 226142. *RHODODENDRON OBTUSUM* var. *JAPONICUM* Wils.

Kurume azalea.

226140. Col. No. 12. Summit of Mount Karakuni. Elevation 5,600 feet. Dense, twiggy plant, leaves ovate, covered with fine hairs; flowers purple.

226141. Col. No. 51. Mount Kirishima. Elevation 5,400 feet. White form.

226142. Col. No. 52. Mount Kirishima. Elevation 5,550 feet. Purple form.

226143. *RHODODENDRON* sp.

Col. No. 45. 'Soga'. From the Horticultural Field Station, Kurume, Kyushu. Macrantha type; flowers bicolor.

226144. *RHODODENDRON* sp.

Col. No. 46. 'Miyuno-sake'.

226145. *RHODODENDRON* sp.

Col. No. 47. 'Dai-Shu-hai'. Flowers red outside, pink inside.

226146. *RHODODENDRON* sp.

Col. No. 48. 'Ho-sai'. Flowers purple with white center.

226147. *RHODODENDRON* sp.

Col. No. 49. 'Kagetsu-muji'. Bicolor.

226148. *RHODODENDRON* sp.

Col. No. 50. 'Shun-no-tsuki'. Bicolor.

226149. *SHORTIA SOLDANELLOIDES* (Sieb. & Zucc.) Mak. Diapensiaceae.

Col. No. 13. Summit of Mount Karakuni, Kirishima. Elevation 5,600 feet. Prostrate clumps springing from basal rootstock; leaves broad, ovate, margins of old leaves wavy; young foliage reddish; flowers pink, petals lacinate, borne on long red stalks.

226150. (Undetermined.) Caprifoliaceae.

Col. No. 18. Mount Ooname-ike. Elevation 4,540 feet. Flowers yellow, funnelform, campanulate.

226151 to 226153 *ORYZA SATIVA* L. Poaceae.

Rice.

From the Philippines. Seeds presented by the College of Agriculture, Manila. Received June 3, 1955.

226151. 'Milagrosa'.

226152. 'Milbuen'.

226153. 'Salak'.

226154 to 226217 ORYZA SATIVA L. Poaceae. Rice.

From Japan. Seeds presented by the National Institute of Agricultural Science, Hiratsuka, Kanagawa. Received June 6, 1955.

- 226154. G.S. 223. 'Aichi-Asahi'.
- 226155. G.S. 224. 'Akatsuki-Mochi'.
- 226156. G.S. 225. 'Asahi-Mochi'.
- 226157. G.S. 578. 'Ayanishiki'.
- 226158. G.S. 226. 'Chikara-Senbon'.
- 226159. G.S. 579. 'Chukyo-Asahi'.
- 226160. G.S. 996. 'Chusei-Honen'.
- 226161. G.S. 897. 'Daikoku-ine'.
- 226162. G.S. 227. 'Fataba'.
- 226163. G.S. 237. 'Fuzisaka 1'.
- 226164. G.S. 238. 'Fuzisaka 2'.
- 226165. G.S. 575. 'Fuzisaka 3'.
- 226166. G.S. 576. 'Fuzisaka 4'.
- 226167. G.S. 577. 'Fuzisaka 5'.
- 226168. G.S. 900. 'Hakkoda'.
- 226169. G.S. 910. 'Ihara 5'.
- 226170. G.S. 919. 'Isao-Mochi'.
- 226171. G.S. 267. 'Kagoshima-Hakamuri 1'.
- 226172. G.S. 250. 'Kairyo-Mochi'.
- 226173. G.S. 306. 'Kidama'.
- 226174. G.S. 580. 'Kimmaze'.
- 226175. G.S. 229. 'Koganemaru'.
- 226176. G.S. 917. 'Koshiji-Wase'.
- 226177. G.S. 239. 'Kuhei 2'.
- 226178. G.S. 921. 'Miho III'.
- 226179. G.S. 251. 'Norin 9'.
- 226180. G.S. 946. 'Oura'.
- 226181. G.S. 947. 'Rikuto-Akagome-d'.
- 226182. G.S. 268. 'Rikuto-Norin 6'.
- 226183. G.S. 269. 'Rikuto-Norin 11'.
- 226184. G.S. 263. 'Rikuto-Norin 12'.
- 226185. G.S. 233. 'Rikuto-Norin 14'.
- 226186. G.S. 234. 'Rikuto-Norin 15'.
- 226187. G.S. 311. 'Rikuto-Norin 17'.
- 226188. G.S. 235. 'Rikuto-Norin 18'.
- 226189. G.S. 236. 'Rikuto-Norin 20'.
- 226190. G.S. 264. 'Rikuto-Norin 21'.
- 226191. G.S. 954. 'Rikuto-Norin-Mochi 26'.
- 226192. G.S. 948. 'Rikuto-Gaisen-Ibaraki 2'.
- 226193. G.S. 949. 'Rikuto-Jinriki 1'.
- 226194. G.S. 950. 'Rikuto-Kahei'.

226154 to 226217—Continued

226195. G.S. 951. 'Rikuto-Kemochi'.
 226196. G.S. 952. 'Rikuto-Kirishima'.
 226197. G.S. 953. 'Rikuto-Kumanoto 1'.
 226198. G.S. 955. 'Rikuto-Shirohige'.
 226199. G.S. 956. 'Rikuto-Terishirazu'.
 226200. G.S. 958. 'Sakai-Kaneko'.
 226201. G.S. 960. 'Sekitori'.
 226202. G.S. 228. 'Senbon-Asahi'.
 226203. G.S. 962. 'Sen-ichi'.
 226204. G.S. 964. 'Shimizu-Mochi'.
 226205. G.S. 276. 'Shinriki-Mochi'.
 226206. G.S. 230. 'Shuho'.
 226207. G.S. 973. 'Somewake'.
 226208. G.S. 974. 'Taisho-Akaho 66'.
 226209. G.S. 976. 'Takenari'.
 226210. G.S. 980. 'Teruju'.
 226211. G.S. 581. 'Tokai-Asahi'.
 226212. G.S. 981. 'Tokai-Senbon'.
 226213. G.S. 231. 'Tozan 38'.
 226214. G.S. 255. 'Wase-Shirage'.
 226215. G.S. 582. 'Yutaka-Senbon'.
 226216. G.S. 990. 'Zennoo'.
 226217. G.S. 265. 'Mubo-Aikoku'.

226218 to 226227.

From Iran. Plants and bulbs collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 6, 1955.

Collected May, 1955.

226218. ANDROPOGON sp. Poaceae.

Col. No. 14888. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone slope. Small leafy perennial.

226219. HORDEUM sp. Poaceae.

Col. No. 14890. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone slope. Plant tough, hardy, xerophytic, forming dark green clumps.

226220. IRIS sp. Iridaceae.

Col. No. 14908. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock slope. Short, caespitose plant, to 30 cm. high; flowers large, dark purple.

226221. IRIS sp.

Col. No. 14911. Chadegan, Faridan District. Elevation 2,470 m. Plant caespitose, to 20 cm. high; flowers large, purple-netted.

226222. ORYZOPSIS sp. Poaceae.

Col. No. 14889. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock slope. Plant tender-leaved perennial, sod-forming.

226218 to 226227—Continued

- 226223 and 226224.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**
226223. Col. No. 14907. Musiabad, 90 km. west of Esfahan. Elevation 2,470 m. Limestone slope. Plant tufted perennial; leaves short, sparse; culms heavy with bulbils.
226224. Col. No. 14909. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Short-leaved perennial.
226225. (Undetermined.) Poaceae.
 Col. No. 14904. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock. Grass small, infrequent, perennial
226226. (Undetermined.) Poaceae.
 Col. No. 14905. Near Musiabad, 90 km. west of Esfahan. Elevation 2,470 m. Saline meadow. Perennial grass forming a tight sod; closely grazed by sheep.
226227. (Undetermined.) Poaceae.
 Col. No. 14906. Near Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Tufted perennial grass.

226228 to 226232.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 6, 1955.

Collected May, 1955.

- 226228.** *CITRUS SINENSIS* (L.) Osbeck Rutaceae. **Sweet orange.**
 Col. No. 53. 'Matsudaikai'. Market, Kurume, Kyushu. Summer type.
226229. *DIOSCOREA* sp. Dioscoreaceae.
 Col. No. 1. 'Tukoro-imo'. Mount Sakurajima, Kagoshima Prefecture. Elevation 50 m. Small vine to 6 m. long.
226230. *DIOSCOREA* sp.
 Col. No. 26. Mount Kojigoku, Kyushu. Elevation 700 m.
226231. *DIOSCOREA* sp.
 Col. No. 27. Mount Kojigoku, Kyushu.
226232. *RUBUS* sp. Rosaceae.
 Col. No. 2. Mount Sakurajima. Elevation 60 m. Growing among lava rocks.

226233 to 226242. *VITIS* (hybrids). Vitaceae.

From Texas. Plants growing at the Agricultural Experiment Substation, Montague. Received June 7, 1955.

226233 to 226236. Native varieties.

- 226233.** T.S. 23978. 'Rupestris Ganzin'.
226234. T.S. 22382. 'Live Oak No. 2'.
226235. T.S. 22381. 'La Pryor No. 4'.
226236. T.S. 23017. 'Leona No. 5'.

226237 to 226242. French-American hybrids from the Schroeder Vinyard, Hutchinson, Kansas.

- 226237.** T.S. 34123. 'Seibel 6905'.
226238. T.S. 34124. 'Seibel 11803'.
226239. T.S. 34127. 'Conderc 7120'.
226240. T.S. 34128. 'Seyve-Villard 5-276'.

226233 to 226242—Continued**226237 to 226242—Continued**

226241. T.S. 34130. 'Seyve-Villard 12-347'.

226242. T.S. 34134. 'Ravat 34'.

226243 to 226248.

From New Zealand. Scions presented by the Fruit Research Station, Plant Diseases Division, Auckland. Received June 7, 1955.

226243 and 226244. *PRUNUS PERSICA* (L.) Batsch Amygdalaceae. **Peach.**

226243. 'Golden Queen Improved'.

226244. 'Old Mission'.

226245. *PRUNUS* sp.

'Healey's Peacharine'.

226246. *PRUNUS* sp.

'Jenkins Seedling Plum'.

226247 and 226248. *PYRUS COMMUNIS* L. Malaceae. **Pear.**

226247. 'Livingston'. A seedling from 'Winter Nelis'.

226248. 'Packham's Late'.

226249 to 226257. ARACHIS HYPOGAEA L. Fabaceae **Peanut.**

From the Union of South Africa. Seeds presented by the Potchefstroom Landboukollege, Potchefstroom, Transvaal. Received June 7, 1955.

226249. 'Alpha'.

226254. 51G. 64A.

226250. 'Lusoka D'.

226255. 51G. 73A.

226251. 'Masambika'.

226256. 52G. 30A.

226252. 43G. 90A.

226257. 52G. 130B.

226253. 51G. 37A.

226258 to 226263. ZEA MAYS L. Poaceae. **Corn.**

From Bolivia. Seeds presented by William M. Martin, Grand Island, New York. Received June 8, 1955.

From the Lake Titicaca region.

226258. Yellow Kernels.

226261. Red and white kernels.

226259. White kernels.

226262. Dark red kernels.

226260. Blue and white kernels.

226263. Small yellow kernels.

226264 to 226295.

From Kenya. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 8, 1955.

From the Kitale Station, Nairobi, unless otherwise noted. Collected April 29, 1955.

226264. *ALYSICARPUS GLUMACEUS* DC. Fabaceae.

Col. No. 324. K. 51219.

226265. *CLITORIA TERNATEA* L. Fabaceae.**Asian pigeonwings.**

Col. No. 339. K. 54162.

226266. *CROTALARIA RECTA* A. Rich. Fabaceae.

Col. No. 323. K. 52242.

226267 and 226258. *DESMODIUM UNCINATUM* (Jacq.) DC. Fabaceae.**Tickclover.**

226264 to 226295—Continued**226267 to 226268—Continued**

- 226267.** Col. No. 304. K. 53388. Originally from Hawaii but does well in Kenya.
- 226268.** Col. No. 334. K. 53384. Plant recovers rapidly from mowing; stools vigorously; used for hay.
- 226269.** *DOLICCOS BIFLORUS* L. Fabaceae. **Twinflower dolichos.**
Col. No. 309. K. 5049. Makes dense mat of fine stems.
- 226270.** *ELEUSINE INDICA* (L.) Gaertn. Poaceae. **Goosegrass.**
Col. No. 118. Near Salisbury, Southern Rhodesia.
- 226271.** *INDIGOFERA ARRECTA* Hochst. Fabaceae. **Indigo.**
Col. No. 312. K. 5053.
- 226272.** *INDIGOFERA SUBULATA* Vahl **Indigo.**
Col. No. 305. K. 53231.
- 226273 and 226274.** *LOTONONIS BAINESII* Baker Fabaceae.
226273. Col. No. 308. K. 52331. Originally from Transvaal, South Africa. Makes good growth.
226274. Col. No. 327. K. 52269.
- 226275.** *LOTUS MEARNsii* Britton Fabaceae. **Trefoil.**
Col. No. 326. K. 52188.
- 226276.** *LOTUS TIGRENSIS* Baker **Trefoil.**
Col. No. 322. K. 50111.
- 226277.** *LUPINUS PRINCEI* Harms Fabaceae. **Lupine.**
Col. No. 7. K. 53490.
- 226278.** *MELILOTUS SULCATA* Desf. Fabaceae. **Sweetclover.**
Col. No. 328. K. 531006.
- 226279.** *TEPHROSIA HOLSTII* Taub. Fabaceae.
Col. No. 300. K. 5353.
- 226280.** *TEPHROSIA SUBTRIFLORA* Hochst. Fabaceae.
Col. No. 338. K. 52329.
- 226281.** *TERAMNUS* sp. Fabaceae.
Col. No. 306. K. 5155.
- 226282.** *TERAMNUS* sp.
Col. No. 335. K. 51265.
- 226283.** *TETRAGONIA ARBUSCULA* Fenzl Aizoaceae.
Col. No. 93. Originally from the Department of Agriculture, Pretoria.
- 226284.** *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. **Berseem clover.**
Col. No. 307. K. 52177.
- 226285 and 226286.** *TRIFOLIUM RUPPELLIANUM* Fresen. **Clover.**
226285. Col. No. 310. K. 5488.
226286. Col. No. 333. K. 50110.
- 226287.** *TRIFOLIUM SEMIPILOSUM* Fresen. **Clover.**
Col. No. 311. K. 5154.
- 226288.** *TRIFOLIUM STEUDNERI* Schweinf. **Clover.**
Col. No. 331.

226264 to 226295—Continued

- 226289.** *TRIFOLIUM TEMBENSE* Fresen. **Clover.**
Col. No. 303. K. 53966. 'Humbwa'.
- 226290.** *TRIFOLIUM USAMBARENSE* Taub. **Clover.**
Col. No. 319. K. 53814.
- 226291.** *VIGNA GRACILIS* Hook. f. Fabaceae. **Cowpea.**
Col. No. 336. K. 51121.
- 226292.** *VIGNA HETEROPHYLLA* A. Rich. **Cowpea.**
Col. No. 320. K. 531026.
- 226293.** *VIGNA MEMBRANACEA* A. Rich. **Cowpea.**
Col. No. 321. K. 51352.
- 226294.** *VIGNA OBLONGIFOLIA* A. Rich. **Cowpea.**
Col. No. 317. K. 53507.
- 226295.** *VIGNA SCHIMPERI* Baker **Cowpea.**
Col. No. 315. K. 5215.

226296 to 226299.

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 8, 1955.

- 226296.** *ROSA* sp. Rosaceae.
Col. No. 55. Watanabe Paeonia Garden, Utsunomiya. June 2, 1955. A dwarf species with white flowers; collected in the wild on Yaku-shima Island.
- 226297.** *SASA* sp. Poaceae.
Col. No. 56. Watanabe Paeonia Garden, Utsunomiya. June 2, 1955. Low dense form, in mountain meadows on the island of Yaku-shima.
- 226298.** *SERISSA FOETIDA* (L. f.) Lam. Rubiaceae.
Col. No. 54. 'Kocho-ki'. Higure Nursery, Angyo, June 1, 1955. A double-flowered variety.
- 226299.** *ZOYSIA* sp. Poaceae.
Col. No. 59. 'Birodo-sihiba'. Kosho-En, Utsunomiya. June 3, 1955. Leaves finer than those of *Z. tenuifolia*.

226300 and 226301 SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Tasmania. Tubers presented by the Department of Agriculture, Tewkesbury. Received June 8, 1955.

- 226300.** Midseason strain.
- 226301.** Late strain.

226302 and 226303. SESAMUM INDICUM L. Pedaliaceae. Sesame.

From Venezuela. Seeds presented by the Departamento Fiftotecnia, Maracay. June 8, 1955.

- 226302.** 'Inamar'.
- 226303.** 'Morada'.

226304 to 226308. ORYZA SATIVA L. Poaceae. Rice.

From Egypt. Seeds presented by the Ministry of Agriculture, Botanical and Plant Breeding Section, Orman. Received June 8, 1955.

- 226304.** 'Agami Montakhab 1. **226307.** 'Sab Ini'.
- 226305.** 'Giza 14'. **226308.** 'Yabani Montakhab 7'.
- 226306.** 'Giza 26'.

226309 and 226310. DAUCUS CAROTA L. Apiaceae. Carrot.

From Mexico. Seed presented by the Rockefeller Foundation, Mexico City. Received June 9, 1955.

226309. 'Primary 61 Chapingo'.

226310. 'Primary 62 Chapingo'.

226311. GOSSYPIUM (hybrid.) Malvaceae Cotton.

From Great Britain. Seed presented by the Empire Cotton Growing Corp., London, England. Received June 10, 1955.

'Egyptian Short Branch'.

226312 to 226441 ORYZA SATIVA L. Poaceae. Rice.

From Mexico. Seed presented by the Campo Agrícola Experimental "La Victoria", Zacatepec, Morelos. Received June 10, 1955.

226312. 7-8-1.	226344. CI-186-3-3.
226313. 17-9-4.	226345. CI-186-3-4.
226314. 27-11-3.	226346. CI-186-3-5.
226315. 30-16.	226347. CI-271-2-1.
226316. 32-19-5.	226348. CI-271-2-2.
226317. CI-5-5-1.	226349. CI-271-2-3.
226318. CI-5-5-2.	226350. CI-271-2-4.
226319. CI-5-5-3.	226351. CI-271-2-5.
226320. CI-5-5-4.	226352. CI-466-3-1.
226321. CI-5-5-5.	226353. CI-466-3-2.
226322. CI-6-1-11.	226354. CI-466-3-3.
226323. CI-6-1-2.	226355. CI-466-3-4.
226324. CI-6-1-3.	226356. CI-466-3-5.
226325. CI-6-1-4.	226357. CI-484-3-1.
226326. CI-6-1-5.	226358. CI-484-3-2.
226327. CI-6-5-1.	226359. CI-484-3-3.
226328. CI-6-5-2.	226360. CI-484-3-4.
226329. CI-6-5-3.	226361. CI-484-3-5.
226330. CI-6-5-4.	226362. CI-507-1-1.
226331. CI-6-5-5.	226363. CI-507-1-2.
226332. CI-13-2-1.	226364. CI-507-1-3.
226333. CI-13-2-2.	226365. CI-507-1-4.
226334. CI-13-2-3.	226366. CI-507-1-5.
226335. CI-13-2-4.	226367. CI-621-3-1.
226336. CI-13-2-5.	226368. CI-621-3-2.
226337. CI-101-2-1.	226369. CI-621-3-3.
226338. CI-101-2-2.	226370. CI-621-3-4.
226339. CI-101-2-3.	226371. CI-621-3-5.
226340. CI-101-2-4.	226372. CI-638-5-1.
226341. CI-101-2-5.	226373. CI-638-5-2.
226342. CI-186-3-1.	226374. CI-638-5-3.
226343. CI-186-3-2.	226375. CI-638-5-4.

226312 to 226441—Continued

226376.	CI-638-5-5.	226409.	C2-42-4-3.
226377.	CI-701-1-1.	226410.	C2-42-4-4.
226378.	CI-701-1-2.	226411.	C2-42-4-5.
226379.	CI-701-1-3.	226412.	C2-56-1-1.
226380.	CI-701-1-4.	226413.	C2-56-1-2.
226381.	CI-701-1-5.	226414.	C2-56-1-3.
226382.	CI-701-2-1.	226415.	C2-56-1-4.
226383.	CI-701-2-2.	226416.	C2-56-1-5.
226384.	CI-701-2-3.	226417.	C6-56-2-1.
226385.	CI-701-2-4.	226418.	C6-56-2-2.
226386.	CI-701-2-5.	226419.	C6-56-2-3.
226387.	CI-701-4-1.	226420.	C6-56-2-4.
226388.	CI-701-4-2.	226421.	C6-56-2-5.
226389.	CI-701-4-3.	226422.	C6-116-5-1.
226390.	CI-701-4-4.	226423.	C6-116-5-2.
226391.	CI-701-4-5.	226424.	C6-116-5-3.
226392.	C2-42-1-1.	226425.	C6-116-5-4.
226393.	C2-42-1-2.	226426.	C6-116-5-5.
226394.	C2-42-1-3.	226427.	C6-146-4-1.
226395.	C2-42-1-4.	226428.	C6-146-4-2.
226396.	C2-42-1-5.	226429.	C6-146-4-3.
226397.	C2-42-2-1.	226430.	C6-146-4-4.
226398.	C2-42-2-2.	226431.	C6-146-4-5.
226399.	C2-42-2-3.	226432.	C6-221-4-1.
226400.	C2-42-2-4.	226433.	C6-221-4-2.
226401.	C2-42-2-5.	226434.	C6-221-4-3.
226402.	C2-42-3-1.	226435.	C6-221-4-4.
226403.	C2-42-3-2.	226436.	C6-221-4-5.
226404.	C2-42-3-3.	226437.	C6-226-1-1.
226405.	C2-42-3-4.	226438.	C6-226-1-2.
226406.	C2-42-3-5.	226439.	C6-226-1-3.
226407.	C2-42-4-1.	226440.	C6-226-1-4.
226408.	C2-42-4-2.	226441.	C6-226-1-5.

226442. ORMOSIA sp. Fabaceae.

From Panama. Seeds presented by Ciro de la Victoria, Panama. Received June 13, 1955.

226443 to 226445.

From Israel. Seeds presented by the United States Operations Mission to Israel, Tel Aviv. Received June 13, 1955.

226443 and 226444	CUCUMIS MELO L. Cucurbitaceae.	Muskmelon.
226443.	'Ananas-Yokneam'.	
226444.	'Tal-Hagilboa'.	

226443 to 226445—Continued

- 226445.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**
'Malali Improved'.

226446 to 226490.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 14, 1955.

Collected April and May, 1955.

- 226446 to 226448.** *ALLIUM CEPA* L. Liliaceae. **Onion.**
226446. Col. No. 14727. 'Piaz'. Market, Kazerun. Elevation 3,000 feet.
226447. Col. No. 14752. 'Piaz Sadi'. Market, Shiraz. Elevation 5,200 feet.
226448. Col. No. 14791. 'Piaz'. Market, Kerman. Elevation 5,800 feet.
- 226449.** *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**
Col. No. 14777. 'Shiby'. Market, Kerman. Elevation 5,800 feet.
- 226450.** *ARISTIDA CILIATA* Desf. Poaceae. **Three-awn.**
Col. No. 14602. Twenty-five miles northeast of Ahwaz.
- 226451.** *ASTRAGALUS* sp. Fabaceae.
Col. No. 14818. Twelve miles southeast of Sirjan, along road to Bandar-Abbas. Elevation 5,800 feet. Annual, low-spreading, unarmed on ungrazed area.
- 226452.** *BRACHYPODIUM* sp. Poaceae.
Col. No. 14613. Fifteen miles south of Shushtar. Elevation 800 feet. Annual, slender, colonial.
- 226453.** *BROMUS DANTHONIAE* Trin. Poaceae. **Brome.**
Col. No. 14609. Abe-e Gonji, halfway between Ahwaz and Shustar. Slender. annual.
- 226454.** *BROMUS RACEMOSUS* L. **Bald brome.**
Col. No. 14585. Irrigated field near Ahwaz. Spreading annual; eaten by cattle.
- 226455.** *BROMUS MADRITENSIS* L. **Spanish brome.**
Col. No. 14610. Abe-e Gonji, halfway between Ahwaz and Shushtar. Scattered annual.
- 226456.** *BROMUS SCOPARIUS* L. **Broom brome.**
Col. No. 14651. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Annual slender, mostly single-stemmed.
- 226457.** *BROMUS DANTHONIAE* Trin. **Brome.**
Col. No. 14667. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Annual with purplish margined spikes.
- 226458.** *BROMUS* sp.
Col. No. 14830. Sixty-two miles south of Sirjan along road to Bandar-Abbas. Elevation 5,300 feet. Annual.
- 226459 and 226460.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**
226459. Col. No. 14754. 'Hendavanch Sharifabad'. Market, Shiraz. Elevation 5,200 feet.
226460. Col. No. 14779. Market, Kerman. Elevation 5,800 feet.
- 226461 and 226462.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
226461. Col. No. 14707. Market, Kazerun. Elevation 3,000 feet.
226462. Col. No. 14755. 'Dastambo'. Shiraz market. Elevation 5,200 feet.

226446 to 226490—Continued

- 226463.** CUCURBITA PEPO L. Cucurbitaceae. **Pumpkin.**
Col. No. 14780. Market, Kerman. Elevation 5,800 feet.
- 226464.** DAUCUS CAROTA L. Apiaceae. **Carrot.**
Col. No. 14770. Market, Shiraz. Elevation 5,200 feet.
- 226465 and 226466.** HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**
226465. Col. No. 14719. Market, Kazerun. Elevation 3,000 feet.
226466. Col. No. 14758. Market, Shiraz. Elevation 5,200 feet.
- 226467.** HORDEUM VULGARE L. Poaceae. **Barley.**
Col. No. 14797. 'Joh'. Market, Kerman.
- 226468.** LACTUCA SATIVA L. Cichoriaceae. **Lettuce.**
Col. No. 14799. 'Kauh'. Market, Kerman. Elevation 5,800 feet.
- 226469.** MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars
California bur clover.
Col. No. 14594. Irrigated fields near Ahwaz. Spreading annual.
- 226470 and 226471.** MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
226470. Col. No. 14806. Bam. Elevation 3,600 feet.
226471. Col. No. 14843. Bam. Local strain; excellent quality.
- 226472.** MELLLOTUS INDICA (L.) All. Fabaceae. **Annual yellow sweetclover.**
Col. No. 14808. Eight miles northwest of Bam. Elevation 4,000 feet.
- 226473.** ONOBRYCHIS sp. Fabaceae.
Col. No. 14829. Seventy-one miles south of Sirjan along road to Bandar-Abbas.
- 226474.** PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**
Col. No. 14776. Market, Kerman. Elevation 5,800 feet. Widely cultivated locally for opium.
- 226475 and 226478.** PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**
226475. Col. No. 14773. 'Lubia'. Market, Shiraz. Elevation 5,200 feet.
226476. Col. No. 14785. Market, Kerman. Elevation 5,800 feet. Grown at higher altitude on nearby mountain.
226477. Col. No. 14787. Market, Kerman. Elevation 5,800 feet. Originally from Esfahan.
226478. Col. No. 14788. Market, Kerman. Elevation 5,800 feet. Originally from Esfahan.
- 226479 and 226480.** PRUNUS DOMESTICA L. Amygdalaceae. **Common plum.**
226479. Col. No. 14576. Market, Ahwaz.
226480. Col. No. 14577. Market, Ahwaz.
- 226481.** PRUNUS sp.
Col. No. 14675. Twenty-five miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet. Small plumlike fruits.
- 226482.** RAPHANUS SATIVUS L. Brassicaceae. **Radish.**
Col. No. 14716. Market, Kazerun. Elevation 3,000 feet. White, round type.
- 226483.** RUMEX sp. Polygonaceae.
Col. No. 14625. Eighteen miles south of Shushtar. Elevation 800 feet. Large-leaved, tender herb; eaten by cattle.
- 226484.** SCORPIURUS SULCATA L. Fabaceae.
Col. No. 14595. Irrigated fields near Ahwaz. Spreading, annual herb; flowers yellow.

226446 to 226490—Continued

226485. *STIPA* sp. Poaceae.

Col. No. 14819. Fifty miles south of Sirjan along road to Bandar-Abbas. Elevation 600 feet. Slender xerophytic perennial; browsed by wild animals.

226486. *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

Col. No. 14746. 'Shabdar'. Market, Shiraz. Elevation 5,200 feet.

226487 and 226488. *VICIA SATIVA* L. Fabaceae. **Common vetch.**

226487. Col. No. 14730. Two miles east of Kazerun. Elevation 3,000 feet.

226488. Col. No. 14807. Three miles northwest of Bam. Elevation 4,000 feet.

226489 and 226490. *VIGNA SINENSIS* (Torner) Savi **Common cowpea.**

226489. Col. No. 14772. 'Lubia cheshm'. 'Bolbsly'. Market, Shiraz. Elevation 5,200 feet. Local white variety.

226490. Col. No. 14790. Market, Kerman. White variety.

226491 and 226492.

From India. Seeds presented by the Sealtek Forest Office, Assam. Received June 15, 1955.

226491. *DENDROCALAMUS HAMILTONII* Ness & Arn. Poaceae. **Bamboo.**

226492. *PSEUDOSTACHYUM POLYMORPHUM* Munro Poaceae. **Bamboo.**

226493 to 226498.

From Australia. Seeds presented by Ed. Pollock, Molong Road, Parkes, New South Wales. Received June 15, 1955.

226493. *ACACIA RICEANA* Henslow Mimosaceae. **Rice acacia.**

Leaves short, dark green, spikelike; flowers in drooping cluster.

226494. *CYATHODES GLACUA* Labill. Epacridaceae.

'Peach berry'. A shrub to 20 feet high; leaves short, stiff; flowers in small clusters with a strong honeylike odor; berries pink to purple.

226495. *HELICHRYSUM ANTENNARIUM* F. Muell. Asteraceae.

Shrub to 12 feet high; flowers numerous, whitish to cream.

226496. *NOTHOFAGUS CUNNINGHAMII* Oerst. Fagaceae. **Tasmanian falsebeech.**

'Tasmanian beech'. Tree lofty; foliage beautiful

226497. *OLEARIA RAMULOSA* Benth. Asteraceae. **Twiggy daisybush.**

An attractive shrub to 3 feet high; flowers mauve and white.

226498. *TELOPEA SPECIOSISSIMA* (J. E. Sm.) R. Br. Proteaceae. **Crimson waratah.**

Shrub to 10 feet high; flowers beautiful, large, scarlet, odorless.

226499 to 226537.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 16, 1955.

Collected April and May, 1955.

226499. *AEGILOPS TRIUNCIALIS* L. Poaceae. **Barb goatgrass.**

Col. No. 14605. Abe-e Gonji, halfway between Ahwaz and Shustar. Annual; about 15 inches high.

226500. *AEGILOPS OVATA* L. **Goatgrass.**

Col. No. 14635. Twenty miles north of Dexful along road to Khorramabad. Elevation 1,200 feet. Stooling, shorthheaded annual.

226499 to 226537—Continued

- 226501.** *AEGILOPS TRIUNCIALIS* L. **Barb goatgrass.**
Col. No. 14681. Near Kazerun. Elevation 3,000 feet. Field annual.
- 226502.** *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**
Col. No. 14764. 'Shebet'. Market, Shiraz. Elevation 5,200 feet.
- 226503.** *ASTRAGALUS* sp. Fabaceae.
Col. No. 14626. Fifty miles north of Ahwaz. Low perennial bush.
- 226504.** *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae. **Cauliflower.**
Col. No. 14762. 'Kalam Goll'. Market, Shiraz. Elevation 5,200 feet.
- 226505.** *BRASSICA CAMPESTRIS* L. **Bird rape.**
Col. No. 14725. Market, Kazerun. Elevation 3,000 feet. Locally cultivated vegetable.
- 226506.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**
Col. No. 14562. 'Hindavana'. Market, Ahwaz.
- 226507 and 226508.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
226507. Col. No. 14559. Market, Ahwaz. Fruit oblong. Seeds said to be from mountains near Korramabad.
226508. Col. No. 14782. 'Kharbusa'. Market, Kerman. Elevation 5,800 feet. Fruit large, elongated.
- 226509 and 226510.** *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**
226509. Col. No. 14756. 'Kheeyar Dulab'. Market, Shiraz. Elevation 5,200 feet.
226510. Col. No. 14783. 'Khiarcumber'. Market, Kerman. Elevation 5,800 feet. Local variety. Fruit to 8 inches long.
- 226511.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**
Col. No. 14563. 'Keds'. Market, Ahwaz.
- 226512.** *HORDEUM* sp. Poaceae.
Col. No. 14608. Abe-e Gonji, halfway between Ahwaz and Shustar. Annual, about 1 foot high; little forage value.
- 226513 and 226514.** *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**
226513. Col. No. 14726. 'Kahon'. Market, Kazerun. Elevation 3,000 feet.
226514. Col. No. 14765. Market, Shiraz. Elevation 5,200 feet.
- 226515.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**
Col. No. 14800. 'Barz'. Market, Kerman. Elevation 5,800 feet.
- 226516.** *LYCOPERSICON ESCULENTUS* Mill. Solanaceae. **Tomato.**
Col. No. 14560. Market, Ahwaz. Thinskinmed, malformed type; cultivated locally.
- 226517.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars Fabaceae. **California burclover.**
Col. No. 14587. Near Ahwaz. Low spreading annual, occurring as a weed.
- 226518.** *MEDICAGO SATIVA* L. **Alfalfa.**
Col. No. 14745. 'Yanjeh Hamedan'. Market, Shiraz. Elevation 5,200 feet. Seeds originally from Hamedan.
- 226519.** *PHALARIS MINOR* Retz. Poaceae. **Littleseed canarygrass.**
Col. No. 14586. Ahwaz. Weedy grass.

226499 to 226537—Continued

- 226520.** *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**
Col. No. 14789. 'Mash'. Market, Kerman. Elevation 5,800 feet. Said to come from Jiraf.
- 226521 to 226525.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
- 226521.** Col. No. 14554. 'Quzvin Lubia'. Market, Ahwaz. Large, red-marked bean, grown locally.
- 226522.** Col. No. 14556. 'Lubia Safid'. Market, Ahwaz. **White bean.**
- 226523.** Col. No. 14557. 'Lubia Rasht'. Market, Ahwaz.
- 226524.** Col. No. 14715. 'Lubia'. Market, Kazerun. Elevation 3,000 feet. Irrigated, grown locally.
- 226525.** Col. No. 14555. 'Red Lubia'. Market, Ahwaz. Seeds pink.
- 226526.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**
Col. No. 14618. Eighteen miles south of Shustar. Elevation 800 feet. Fine-leaved perennial among rocks.
- 226527.** *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**
Col. No. 14840. Hills between Bardesir and Kerman. Elevation 7,000 feet.
- 226528.** *SALVIA* sp. Menthaceae.
Col. No. 14722. 'Marveresht'. Market, Kazerun. Elevation 3,000 feet.
- 226529.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
Col. No. 14698. Market, Kazerun. Elevation 3,000 feet.
- 226530.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**
Col. No. 14653. Thirty miles north of Andimenshk along road to Korramabad. Elevation 1,700 feet.
- 226531.** *TRIFOLIUM LAPPACEUM* L. **Lappa clover.**
Col. No. 14665. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Low herb.
- 226532.** *TRIFOLIUM TOMENTOSUM* L. **Woolly clover.**
Col. No. 14686. Nine miles northwest of Kazerun. Elevation 3,000 feet. Common spring annual.
- 226533.** *TRIGONELLA UNCATA* Boiss. & Noe Fabaceae.
Col. No. 14590. Irrigated fields near Ahwaz. Low decumbent annual.
- 226534.** *TRIGONELLA ANGUINA* Delile
Col. No. 14591. Irrigated fields near Ahwaz. Decumbent annual.
- 226535.** *VICIA ANGUSTIFOLIA* var. *SEGETALIS* (Thuill.) Koch Fabaceae. **Vetch.**
Col. No. 14583. Irrigated fields near Ahwaz. Short-climbing annual.
- 226536 and 226537.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**
- 226536.** Col. No. 14553. 'Lubia'. Market, Ahwaz.
- 226537.** Col. No. 14690. Market, Kazerun. Elevation 3,000 feet.
- 226538 and 226539.**
From Morocco. Seeds presented by the Centre de la Recherche Agronomique, Rabat. Received June 16, 1955.
- 226538.** *MELILOTUS ITALICA* (L.) Lam. Fabaceae. **Sweetclover.**
- 226539.** *MELILOTUS SULCATA* Desf. **Sweetclover.**
- 226540.** *INDIGOFERA* sp. Fabaceae.
From the Belgian Congo. Seeds presented by the Institut National pour l'Etude Agronomique du Congo Belge, Yangambi. Received June 16, 1955.

226541 and 226542.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 17, 1955.

226541. *POLYGONUM REYNOUTRIA* Makino Polygonaceae. **Knotweed.**

Col. No. 3. Mount Sakurajima. May 20, 1955. Growing as a subshrub among pine and bamboo.

226542. *RHODODENDRON OBTUSUM* var. *JAPONICUM* Wils. Ericaceae. **Kurume azalea.**

Col. No. 15. Mount Karabuni. May 21, 1955. Elevation 5,100 feet.

226543. *SYMPHYTUM OFFICINALE* L. Boraginaceae. **Comfrey.**

From Canada. Roots presented by Bodie Seeds, Limited, Winnipeg. Received June 17, 1955.

226544 to 226583.

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 20, 1955.

Collected May, 1955, in market in Addis Ababa unless otherwise noted.

226544. *BRASSICA NIGRA* (L.) Koch Brassicaceae.

Col. No. 380.

226545. *BRASSICA CARINATA* A. Br.

Col. No. 381.

226546. *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

Col. No. 375. 'Morg'.

226547. *CASSIA* sp. Caesalpinjiaceae.

Col. No. 372. Jimma. Ornamental shrub, to 8 feet high; flowers yellow.

226548. *CROTALARIA SPINOSA* Hochst. Fabaceae.

Col. No. 371. Jimma. Small spiny plants to 18 inches high.

226549. *CROTALARIA* sp.

Col. No. 358. One hundred and sixty miles south of Addis Ababa. Plant about 4 feet high.

226550. *CROTALARIA* sp.

Col. No. 368. Jimma. Plants to 4 feet high.

226551. *DESMODIUM* sp. Fabaceae.

Col. No. 373. Roadside 16 miles north of Jimma. Shrub, to 3 feet high.

226552. *ERAGROSTIS TEF* (Zuccagni) Trotter Poaceae. **Teff.**

Col. No. 385.

226553 and 226554. *HORDEUM VULGARE* L. Poaceae. **Barley.**

226553. Col. No. 388.

226554. Col. No. 389.

226555. *LENS CULINARIS* Medic. Fabaceae. **Lentil.**

Col. No. 390.

226556 and 226557. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

226556. Col. No. 397.

226557. Col. No. 412.

226544 to 226583—Continued

- 226558.** *LUPINUS ALBUS* L. Fabaceae. **White lupine.**
Col. No. 366. Plants to 7 feet high; flowers purple.
- 226559 and 226560.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
226559. Col. No. 360. One hundred and sixty miles south of Addis Ababa. Mar. 13, 1955.
226560. Col. No. 395.
- 226561 to 226564.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
226561. Col. No. 359. One hundred and sixty miles south of Addis Ababa.
226562. Col. No. 401.
226563. Col. No. 402.
226564. Col. No. 403.
- 226565.** *RUMEX* sp. Polygonaceae.
Col. No. 348. Plants about 3 feet high.
- 226566.** *RUMEX* sp.
Col. No. 357. Near Dodolo in Mendebo Mountains. Plants to 7 feet high.
- 226567 and 226568.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
226567. Col. No. 382.
226568. Col. No. 383.
- 226569 and 226570.** *SORGHUM VULGARE* Pers. Poaceae.
226569. Col. No. 391.
226570. Col. No. 392.
- 226571.** *SORGHUM* sp.
Col. No. 374. Road to Jimma near Omo River. Dense bunchgrass; leaves broad.
- 226572.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**
Col. No. 384.
- 226573 to 226578.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**
226573. Col. No. 405. Hard type.
226574. Col. No. 406. Soft type.
226575. Col. No. 407. Beardless.
226576. Col. No. 409. Mixture.
226577. Col. No. 410.
226578. Col. No. 411. Purple, hard type.
- 226579 and 226580.** *VICIA FABA* L. Fabaceae. **Broadbean.**
226579. Col. No. 396.
226580. Col. No. 410-A.
- 226581 and 226582.** *ZEA MAYS* L. Poaceae. **Corn.**
226581. Col. No. 393.
226582. Col. No. 394.
- 226583.** *ZORNIA DIPHYLLA* (L.) Pers. Fabaceae.
Col. No. 365. About 27 miles south of Sciasciamanna. March, 1955. Plant with four round leaflets.
- 226584.** *COFFEA* (hybrid). Rubiaceae **Coffee.**
From El Salvador. Seed presented by the Foreign Operations Administration, San Salvador. Received June 21, 1955.
'San Ramon' × 'Bourbon'.

- 226585 to 226591.** *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**
 From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.
 Received June 21, 1955.
 All seeds collected at Tochigi Experiment Station, Utsunomiya. June 3, 1955.
- 226585.** Col. No. 58. 'Norin No. 1'.
226586. Col. No. 59. 'Norin No. 2'.
226587. Col. No. 60. 'Norin No. 3'.
226588. Col. No. 61. 'Tochigi No. 2'.
226589. Col. No. 62. 'Tochigi No. 3'.
226590. Col. No. 63. 'Tochigi-Kimusume No. 1'.
226591. Col. No. 64. 'Shin-Mejiro'.
- 226592 to 226596.**
 From Costa Rica. Seeds presented by the Ministerio de Agricultura e Industrias, San Jose. Received June 21, 1955.
- 226592.** *DESMODIUM BARBATUM* (L.) Benth. Fabaceae. **Tickclover.**
226593. *DESMODIUM INTORTUM* (Mill.) Urb. **Tickclover.**
226594. *PHASEOLUS COCCINEUS* L. Fabaceae. **Scarlet runner bean.**
226595. *STIZOLOBIUM* sp. Fabaceae.
226596. *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**
- 226597 and 226598.**
 From Iran. Bulbs and cuttings collected by H. S. Gentry, Agricultural Explorer Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 21, 1955.
- 226597.** *ARRHENATHERUM ELATIUS* var. *BULBOSUM* (Willd.) Spenner Poaceae. **Tuber oatgrass.**
 Col. No. 14996. Twenty miles northwest of Abadeh, Fars. June 9, 1955. Elevation 8,500 feet. Slender perennial; eaten by sheep.
- 226598.** *PRUNUS AMYGDALUS* Batsch Amygdalaceae. **Almond.**
 Col. No. 14971. Bavanat Valley, Fars.
- 226599.** *RUBUS NIVEUS* Thunb. Rosaceae. **Snowpeaks raspberry.**
 From India. Seeds presented by the Forest Research Institute, New Forest (Dehra Dun). Received June 23, 1955.
- 226600 to 226602.**
 From Japan. Collected by J. L. Creech, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md. Received June 23, 1955.
- 226600.** *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**
 Col. No. 137. Mount Bokko San, near Kobe, growing along road. June 16, 1955. (Cuttings).
- 226601.** *CITRUS NIPPOKOREANA* Tanaka Rutaceae.
 Col. No. 141. Summer Orange Experiment Station, Hagi City, Yamaguchi Prefecture. June 16, 1955.
- 226602.** *LILIUM JAPONICUM* Thunb. Liliaceae. **Lily.**
 Col. No. 139. In bamboo forest about 13 miles south of Hagi City. Elevation 2,100 feet. June 16, 1955. Flowers pale pink, typical form. (Bulbs).

226603 to 226609. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Mexico. Tubers presented by the Rockefeller Foundation, Mexico City. Received June 23, 1955.

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| 226603. U. S. 32-4. | 226607. U. S. 78-3. |
| 226604. U. S. 32-9. | 226608. U. S. 78-8. |
| 226605. U. S. 42-23. | 226609. U. S. 78-9. |
| 226606. U. S. 42-26. | |

226610 to 226614. HORDEUM VULGARE L. Poaceae. Barley.

From Cyprus. Seeds presented by the Director of Agriculture, Nicosia. Received June 27, 1955.

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| 226610. 'Athenais'. | 226613. 'Exadjian'. |
| 226611. 'B.M.C'. | 226614. 'Paphitico'. |
| 226612. 'Cyprus Black'. | |

226615 to 226680.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 27, 1955.

Collected April and May, 1955.

226615. AEGILOPS TRIARISTATA Willd. Poaceae. Goatgrass.

Col. No. 14627. Fifty miles north of Ahwaz. Annual, stooling, leafy; 1 foot high.

226616. AEGILOPS OVATA L. Goatgrass.

Col. No. 14679. Twelve miles east of Kazerun along road to Shiraz. Elevation 4,000 feet. Grass weedy, shortheaded.

226617. AEGILOPS TRIARISTATA Willd. Goatgrass.

Col. No. 14680. Twelve miles east of Kazerun along road to Shiraz. Annual, stooling, with ascending culms to 10 inches high.

226618. ALLIUM sp. Liliaceae.

Col. No. 14720. 'Gandena'. Market, Kazerun. Elevation 3,000 feet.

226619. ALLIUM sp.

Col. No. 14769. 'Gandena'. Market, Shiraz. Elevation 5,200 feet. Eaten both raw and cooked.

226620 to 226622. AMMI COPTICUM L. Apiaceae.

226620. Col. No. 14695. 'Zenion'. Market, Kazerun. Elevation 3,000 feet.

226621. Col. No. 14710. 'Zenion'. Market, Kazerun. Elevation 3,000 feet. Used for stomach ailments.

226622. Col. No. 14793. Market, Kerman. Elevation 5,800 feet. Local seasoning herb.

226623. ANETHUM GRAVEOLENS L. Apiaceae. Dill.

Col. No. 14570. 'Shivat'. Market, Ahwaz. Seasoning herb, grown locally.

226624. APIUM GRAVEOLENS L. Apiaceae. Celery.

Col. No. 14757. 'Karafs'. Market, Shiraz. Elevation 5,200 feet. Originally from Tehran.

226625. PETROSELINUM CRISPUM (Mill.) Nym. Apiaceae. Parsley.

Col. No. 14574. 'Jafari'. Market, Ahwaz.

226626. ARISTIDA sp.

Col. No. 14833. Sixty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 5,100 feet. Xerophytic perennial, in small tufts.

226615 to 226680—Continued

226627. *ASTRAGALUS* sp. Fabaceae.

Col. No. 14735. Eighteen miles east of Kazerun. Elevation 4,200 feet. Decumbent to prostrate annual reported palatable to livestock.

226628. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

Col. No. 14724. 'Chogandar'. Market, Kazerun. Elevation 3,000 feet.

226629. *BRACHYPODIUM* sp. Poaceae.

Col. No. 14733. Twelve miles east of Kazerun. Elevation 3,800 feet. Winter annual.

226630. *BROMUS MADRITENSIS* L. Poaceae.

Spanish brome.

Col. No. 14737. Eighteen miles east of Kazerun. Elevation 4,200 feet. Low annual; young leaves eaten by cattle.

226631. *CALLIGONUM* sp. Polygonaceae.

Col. No. 14816. Twenty-seven miles southeast of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Xerophytic spreading shrub; branches white; fruits showy pink to red.

226632 and 226633. *CAPSICUM FRUTESCENS* L. Solanaceae.

Redpepper.

226632. Col. No. 14714. Market, Kazerun. Elevation 3,000 feet. Local hot variety.

226633. Col. No. 14751. 'Felfell'. Market, Shiraz. Elevation 5,200 feet. Local, cultivated chili pepper.

226634. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

Watermelon.

Col. No. 14786. Market, Kerman. Elevation 5,800 feet. Fruits black-seeded; grown by irrigation.

226635. *CUCUMIS SATIVUS* L. Cucurbitaceae.

Cucumber.

Col. No. 14717. Market, Kazerun. Elevation 3,000 feet. Irrigated; fruits short.

226636. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

Col. No. 14760. 'Nargesi Shiraz'. Market, Shiraz. Elevation 5,200 feet. Roots yellow, to 2 feet in length.

226637. *ANDROPOGON* sp. Poaceae.

Col. No. 14888. Musiabad, fifty miles west of Esfahan.

226638. *DOLICHOS LABLAB* L. Fabaceae.

Hyacinth-bean.

Col. No. 14771. 'Lubia gol'. Market, Shiraz. Elevation 5,200 feet.

226639. *HORDEUM VULGARE* L. Poaceae.

Barley.

Col. No. 14728. 'Joh'. Five miles east of Kazerun along road to Shiraz. Elevation 3,000 feet. Two-rowed.

226640. *HORDEUM* sp.

Col. No. 14823. Fifty-two miles south of Sirjan along the road to Bandar-Abbas. Elevation 6,400 feet. Xerophytic annual.

226641. *LACTUCA SATIVA* L. Cichoriaceae.

Garden lettuce.

Col. No. 14571. 'Kahu'. Market, Ahwaz.

226642. *LINUM* sp. Linaceae.

Col. No. 14702. 'Angireh'. Market, Kazerun. Wild, prickly herb; seeds used as medicine.

226615 to 226680—Continued

226643. *ONONIS ADENOTRICHA* Boiss. Fabaceae.

Col. No. 14656. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Erect, sticky annual, to 8 inches high.

226644. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

Tomato.

Col. No. 14761. 'Gajeh Farangi'. Market, Shiraz. Elevation 5,200 feet. Fruits small, round.

226645. *MEDICAGO CORONATA* (L.) Gaertn. Fabaceae.

Medic.

Col. No. 14732. Twelve miles east of Kazerun. Elevation 3,800 feet. Annual, stems fine; pods small.

226646. *MEDICAGO TUBERCULATA* (Retz.) Willd.

Cogwheel medic.

Col. No. 14684. Near Kazerun. Elevation 3,000 feet. Small herb.

226647 and 226648. *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars

California burclover.

226647. Col. No. 14685. Cultivated field near Kazerun. Elevation 3,000 feet.

226648. Col. No. 14738. Eighteen miles east of Kazerun. Elevation 4,200 feet. Prostrate plant in fallow field.

226649 and 226650. *SATUREJA HORTENSIS* L. Menthaceae.

Summer savory.

226649. Col. No. 14721. 'Shaki'. Market, Kazerun. Elevation 3,000 feet. Leaves eaten raw.

226650. Col. No. 14766. 'Marzeh'. Market, Shiraz. Elevation 5,200 feet. Used as seasoning; local variety.

226651. *MYRTUS* sp. Myrtaceae.

Col. No. 14803. Market, Kerman. Elevation 5,800 feet. Local variety; ornamental.

226652. *ONOBRYCHIS* sp. Fabaceae.

Col. No. 14588. Irrigated fields near Ahwaz. Low herb, forming ground cover.

226653. *ONOBRYCHIS* sp.

Col. No. 14645. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Plant erect, diffuse annual, about 3 feet high.

226654. *ONOBRYCHIS* sp.

Col. No. 14652. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant low, diffuse annual.

226655. *ONOBRYCHIS* sp.

Col. No. 14682. Cultivated field near Kazerun. Elevation 3,000 feet.

226656. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae.

Parsley.

Col. No. 14709. 'Nargasi'. Market, Kazerun. Elevation 3,000 feet.

226657 and 226658. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

226657. Col. No. 14711. 'Mash'. Market, Kazerun. Elevation 3,000 feet.

226658. Col. No. 14747. 'Mash'. Market, Shiraz. Elevation 5,200 feet.

226659 to 226662. *PHASEOLUS VULGARIS* L. Fabaceae.

Common bean.

226659. Col. No. 11748. 'Lubia Ghermes'. Market, Shiraz. Elevation 5,200 feet. Mixed varieties.

226660. Col. No. 11749. 'Lubia Sefid'. Market, Shiraz. Elevation 5,200 feet. Local white type.

226661. Col. No. 14688. 'Lubia Ghermes'. Market, Kazerun. Elevation 3,000 feet.

226662. Col. No. 14689. 'Lubia'. Kazerun. Local, mixed varieties.

226615 to 226680—Continued

- 226663.** *PLANTAGO PSYLLIUM* L. Plantaginaceae. **Flaxseed plantain.**
Col. No. 14693. 'Esfarzeh'. Market, Kazerun.
- 226664 to 226666.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**
- 226664.** Col. No. 14677. Twenty-seven miles south of Shiraz along road to Firuzabad.
- 226665.** Col. No. 14678. Twenty-seven miles south of Shiraz along road to Firuzabad. Plant tall, caney, to 1.5 feet high.
- 226666.** Col. No. 14822. Forty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Perennial; on rocks.
- 226667.** *POA* sp.
Col. No. 14674. Nineteen miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet.
- 226668.** *PRUNUS* sp. Amygdalaceae.
Col. No. 14734. 'Argan'. Twelve miles east of Kazerun. Spiny, xerophytic shrub, spreading, to 4 feet high.
- 226669 and 226670.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**
- 226669.** Col. No. 14708. 'Kentu'. Market, Kazerun. Elevation 3,000 feet.
- 226670.** Col. No. 14802. 'Ketan'. Market, Kerman. Elevation 5,800 feet.
- 226671.** *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**
Col. No. 14572. Market, Ahwaz.
- 226672.** *STIPA* sp. Poaceae.
Col. No. 14647. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet.
- 226673.** *STIPA* sp.
Col. No. 14821. Forty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Xerophytic perennial; culms to 1.5 feet high.
- 226674.** *STIPA* sp.
Col. No. 14832. Sixty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 5,100 feet. Xerophytic perennial.
- 226675.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**
Col. No. 14601. Twenty-five miles northeast of Ahwaz. Small desert annual, to 4 inches high.
- 226676.** *TRIFOLIUM STRIATUM* L. **Knotted clover.**
Col. No. 14641. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Small desert annual to 3 inches high.
- 226677.** *TRIFOLIUM CHERLERI* L. **Clover.**
Col. No. 14642. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Desert annual to 3 inches high.
- 226678.** *TRIFOLIUM CAMPESTRE* Schreb. **Clover.**
Col. No. 14659. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant low, diffuse, annual; flowers yellow.
- 226679.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**
Col. No. 14759. 'Shiraz Shambalileh'. Market, Shiraz. Elevation 5,200 feet.
- 226680.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**
Col. No. 14784. 'Lubia Chesboboli'. Market, Kerman. Elevation 5,800 feet.

226681 MELILOTUS SEGETALIS (Brot.) Seringe Fabaceae.**Sweetclover.**

From Portugal. Seeds presented by Manuel Bobone, Lisbon. Received June 30, 1955.

226682 and 226683. HELIANTHUS ANNUUS L. Asteraceae.**Common sunflower.**

From the Union of South Africa. Seeds presented by the Agricultural College and Experimental Farm, Potchefstroom, Transvaal. Received June 27, 1955.

226682. 'Ella'.**226683.** 'Laan'.**226684 to 226703.**

From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura "La Aurora." Received June 29, 1955.

226684. MEDICAGO SATIVA L. Fabaceae.**Alfalfa.**

Grown at Finca Retana (Antigua). Frost resistant.

226685 to 226703. ZEA MAYS L. Poaceae.**Corn.**

S = selfed; # = sibbed.

226685. 'Tiquioate Golden Yellow'. **226695.** No. 123A.(5S # S #).**226686.** No. 12A.(5S 5# S #) 1946. **226696.** No. 129A.(3S # S #) 1946.**226687.** No. 23A.(4S # S #) 1946. **226697.** No. 142.(2S # S 7S) 1948.**226688.** No. 45.(5S 2#) 1944. **226698.** No. 158A.(5S # S #) 1946.**226689.** No. 47A.(5S #). **226699.** No. 192.(4S #) 1944.**226690.** No. 47A.-5S #). **226700.** No. 284.(5S # S #).**226691.** No. 61D.(4S 2#). **226701.** No. 1449.(5S 11#) 1945.**226692.** No. 74.(5S # S) 1944. **226702.** No. 1449.(7S #) 1945.**226693.** No. 92A.(4S #). **226703.** No. 1483.(4S # S #) 1945.**226694.** No. 123A.(6S #).**226704 to 226714.**

From Okinawa. Plant material collected by J. L. Creech, Agricultural Explorer Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 30, 1955.

Collected June, 1955.

226704. CAMELLIA MIYAGII (Koidz.) Makino & Nemoto Theaceae.

Col. No. 145. Ukudan-shiri-yama, Genka. Flowers pale-pink or white. (Seeds.)

226705 to 226707. CITRUS DEPRESSA Hayata Rutaceae.

From Misato-son, Chibana. Budwood. Trees shrubby.

226705. Col. No. 150. 'Shiikwasha'.**226706.** Col. No. 151. 'Kabuchi'.**226707.** Col. No. 152. 'Otto'.**226708. DIOSCOREA PENTAPHYLLA L. Dioscoreaceae.****Yam.**

Col. No. 142. 'Yama-imo'. Genka. Tubers; flesh white.

226709. DIOSCOREA sp.

Col. No. 143. 'Niga-kashu'. Genka. Tubers small, round, whitish.

226710. DIOSCOREA sp.

Col. No. 148. 'Amami-dokoro'. Amami Island. Tubers horizontal.

226704 to 226714—Continued

226711. JUNIPERUS LUTCHUENSIS Koidz. Pinaceae. **Juniper.**

Col. No. 149. 'Ryuky-hainezu'. Onna-son. Prostrate habit; foliage blue-green; ornamental. (Plants.)

226712. LYCORIS AUREA (L'Her.) Herbert. Amaryllidaceae. **Golden lycoris.**

Col. No. 144. 'Syokiran'. Genka. (Bulbs.)

226713. MUSA LIUKIUENSIS Makino Musaceae. **Banana.**

Col. No. 147. Growing on hillside above Genka. (Seeds.)

226714. RHODODENDRON TASHIROI Maxim. Ericaceae.

Col. No. 146. 'Yama-zakura Tsutsutsi'. Genka. Evergreen shrub; flowers small, light pink, appearing in January. (Seeds.)

226715. AVENA SATIVA L. Poaceae. **Common oats.**

From Australia. Seeds presented by the Commonwealth Scientific Industrial Research Organization, Canberra. Received June 30, 1955.

'Boyah'.

226716 to 226746

From Argentina. Seeds presented by the Estacion Experimental, Pergamino. Received June 30, 1955.

226716. AMARANTHUS MANTEGAZZIANUS Passer. Amaranthaceae.

'Chaclion'.

226717. BROMUS AULETICUS Nees Poaceae. **Brome.**

'Cebadilla Chaguena'.

226718. BROMUS BREVIS Steud. **Brome.**

'Cebadilla Pampeana'.

226719 to 226724. BROMUS WILLDENOWII Kunth **Rescuegrass.**

226719. 'Cebadilla Criolla'.

226720. 'Cebadilla Criolla Comun'.

226721. 'Cebadilla Criolla Sel. Pergamino'.

226722. 'Cebadilla Criolla Sel. Pergamino (PF 195)'.

226723. 'Cebadilla Criolla Sel. No. 5'.

226724. 'Cebadilla Criolla Sel. O.U.-S'.

226725. BROMUS INERMIS Leyss. **Smooth brome.**

'Cebadilla Perenne Sel. Pergamino'.

226726. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

'Pasto Ovillo Sel. Pergamino'.

226727. LOLIUM PERENNE L. Poaceae. **Ryegrass.**

'Raigras Perenne Sel. Pergamino'.

226728 to 226738. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

226728. 'Comun Comercial'.

226734. 'Seleccion Masal M.S.'.

226729. 'Comun de Guatrache'.

226735. 'Seleccion Massaux'.

226730. 'Comun de Manfredi'.

226736. 'Seleccion Pergamino'.

226731. 'F.A.V. Nemasint'.

226737. 'Saladina'.

226732. 'F.A.V. San Martin'.

226738. 'Seleccion M-5'.

226733. 'Seleccion Magnif M-6'.

226716 to 226746—Continued

- 226739.** PASPALUM DILATATUM Fluegge Poaceae. **Dallisgrass.**
'Pasto Miel Sel. Pergamino'.
- 226740.** PHALARIS MINOR Retz. Poaceae. **Littleseed canarygrass.**
'Pasto Romane Sel. Pergamino'.
- 226741.** PHALARIS AQUATICA L. **Large canarygrass.**
'Falaris Bulbosa Sel. Pergamino'.
- 226742.** PHLEUM PRATENSE L. Poaceae. **Timothy.**
'Timote Sel. Pergamino'.
- 226743 to 226745.** SORGHUM ALMUM Parodi Poaceae.
- 226743.** 'Sorgo Negro Pergamino A-33'.
- 226744.** 'Sorgo Negro Pergamino C-4'.
- 226745.** 'Sorgo Negro Pergamino E-12'.
- 226746.** TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

226747 to 226749.

From the Anglo-Egyptian Sudan. Seeds presented by the Field Station, Silwood Park, Sunninghill, Berkshire, England. Received July 1, 1955.

- 226747.** GOSSYPIUM AREYSIANUM (Deflers) Hutch. Malvaceae. **Cotton.**
WE3-1/47.
- 226748.** GOSSYPIUM ROBINSONII F. Muell. **Cotton.**
WC2-1/54-55.
- 226749.** GOSSYPIUM SOMALENSE (Gurke) Hutch. **Cotton.**
WE2-2/54-55.

226750 to 226752.

From the Philippines. Seeds presented by the Special Technical Economic Mission, American Embassy, Manila. Received July 5, 1955.

- 226750.** COFFEA EXCELSA Cheval. Rubiaceae. **Congo coffee.**
- 226751.** COFFEA LIBERICA Bull. **Liberian coffee.**
- 226752.** COFFEA CANEPHORA Pierre ex Froehn. **coffee.**

226753 to 226772.

From Okinawa. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6, 1955.

Collected June 27 to 29, 1955.

- 226753.** BREDIA HIRSUTA Blume Melastomataceae.
Col. No. 161. 'Hau-renfa'. Along stream in shady evergreen woods on Hentona-yama, Kunigana-son. Shrub small; flowers purple.
- 226754.** CAMELLIA JAPONICA var. HOZANENSIS (Hay.) Yamamoto Theaceae. **Common camellia.**
Col. No. 178. 'Chibachi'. Forestry Department, Ryukyu Island Nursery. Characterized by small pale-red flowers.
- 226755.** CAMELLIA JAPONICA var. MACROCARPA Masumune
Col. No. 168. 'Chibachi'. Forest of Hentona-yama, Kunigami. Flowers red; fruit extra large.

226753 to 226772—Continued

226756. CAMELLIA LUTCHUENSIS Ito

Col. No. 163. Hillside of Hentona-yama, Kunigami. Tree small; resembles *C. sasanqua*; flowers pale-pink.

226757. CAMELLIA MIYAGII (Koidz.) Makino & Nemoto

Col. No. 179. Forestry Department of Ryukyu Island Nursery. Shrub small; flowers white or pale-pink.

226758. CAMELLIA TEGMENTOSA (Koidz.) Makino & Nemoto

Col. No. 167. 'Sasankwa-moeaki'. Forest of Hentona-yama, Kunigami. Small-leaved species similar in habit to *C. sasanqua*.

226759. CERBERA ODOLLAM Gaertn. Apocynaceae.

Col. No. 173. Seashore of Kunigani-son. Shrub with whorled branches; flowers white or pinkish.

226760. CITRUS DEPRESSA Hayata Rutaceae.

Col. No. 159. On Mateira-gawa, Hentona District, Kunigani-son. Small tree.

226761. CITRUS sp.

Col. No. 169. Forest of Hentona-yama, Kunigami. Large vigorous tree.

226762. DIOSCOREA KELUNGENSIS Hayata Dioscoreaceae.

Yam.

Col. No. 153. 'Kayamu'. Yakazi Island. Pandanus scrub at seashore; tubers white, vertical, to about 10 inches long; juice white.

226763. ELEOCHARIS DULCIS (Burm. f.) Henschel Cyperaceae.

Matai.

Col. No. 175. In abandoned rice paddy at Okuma.

226764. ILEX MUTCHAGARA Makino Aquifoliaceae.

Holly.

Col. No. 166. 'Fagua-muchagara'. Forest on Hentona-yama. Dense shrub resembling *I. crenata* but with large leaves.

226765. LIGUSTRUM LIUKIUENSE Koidz. Oleaceae.

Privet.

Col. No. 162. 'Okinawa Ibot'. Along stream on Hentona-yama, Kunigani-son. Dwarf shrub; leaves to ¼ inch long; probably evergreen.

226766. LYCORIS AUREA (L'Her.) Herb. Amaryllidaceae.

Golden lycoris.

Col. No. 176. Growing in garden at Agricultural College of Ryukyu, Nago.

226767. LYCORIS RADIATA (L'Her.) Herb.

Shorttube lycoris.

Col. No. 177. Growing in garden at Agricultural College of Ryuku, Nago.

226768. MURRAYA PANICULATA (L.) Jack Rutaceae.

Common jasminorange.

Col. No. 156. 'Gikiji' Soshi-ugan, Nakazin-son. Evergreen shrub; leaves pinnate, shiny, dark green.

226769. PHOTINIA WRIGHTIANA Maxim. Malaceae.

Col. No. 171. 'Ununufa-akasa'. Hentona-yama, Kunigami. Very desirable shrub; leaves lanceolate, numerous spined serrations.

226770. RAPHIOLEPSIS UMBELLATA (Thunb.) Schneid. Malaceae.

Yeddo-hawthorn.

Col. No. 172. 'Tikachi'. Hentona-yama, Kunigami. Evergreen shrub; flowers white, fragrant, in panicles.

226771. SATUNTONIA HEXAPHYLLA Dcne. Lardizabalaceae.

Japanese stauntonvine.

Col. No. 165. 'Rotunda'. Shaded evergreen forest of Hentona-yama. Vine small; leaves simple; fruits oval, edible.

226753 to 226772—Continued

226772. TASHIROEA OKINAWENSIS Matsum. Melastomataceae.

Col. No. 170. Semishade along mountain path on Hentona-yama, Kunigami
Small shrub; flowers bright purple.

226773 to 226782.

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction
Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6,
1955.

Collected June 28, 1955.

226773. ALLIUM sp. Liliaceae.

Col. No. 15101. Near Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. Bulbs
eaten cooked.

226774. AGROPYRON sp. Poaceae.

Col. No. 15093. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000
feet. Closely browsed by sheep. (Roots.)

226775. AGROPYRON sp.

Col. No. 11506. Between Komehr and Kowkun Valleys. Elevation 8,000 feet.
Rather xerophytic, tough, bushy perennial; browsed by sheep and goats. (Roots.)

226776. AGROPYRON INTERMEDIUM (Host.) Beauv. **Intermediate wheatgrass.**

Col. No. 15107. Kowkun Valley, Fars. Elevation 7,000 feet. Tough, rhizo-
matous perennial, forming colonies. (roots.)

226777. ALOPECURUS sp. Poaceae.

Col. No. 15094. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000
feet. Closely grazed perennial on open rocky slope. (Roots.)

226778. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 15105. Between Komehr and Kowkun Valleys, Fars. Elevation 8,500
feet. Closely grazed, fine-leaved perennial. (Roots.)

226779. (Undetermined.) Fabaceae.

Col. No. 15098. Northern ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000
feet. Low spreading perennial, closely browsed by sheep. (Plants.)

226780. (Undetermined.) Poaceae.

Col. No. 15102. Near Komehr, Fars. Elevation 8,800 feet. Perennial, sod-
forming grass. (Plants.)

226781. (Undetermined.)

Col. No. 15100. Northern ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000
feet. Small perennial herb; liked by sheep and goats. (Plants.)

226782. (Undetermined.)

Col. No. 15104. Komehr Valley, Fars. Elevation 7,500 feet. Perennial, form-
ing sod in meadow and along ditches; closely grazed. (Roots.)

226783 to 226789.

From Okinawa. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Intro-
duction Section, Horticultural Crops Research Branch, Beltsville, Md. Received
July 6, 1955.

Collected June 27 to 29, 1955.

226783. ACER ITOANUM Hayata ex Koidz. Aceraceae:

Maple.

Col. No. 158. 'Mamiku'. Along roadside near Nakazin-san. Evergreen tree;
bark reddish-gray; leaves simple.

226783 to 226789—Continued**226784.** *BUXUS LIUKIUENSIS* Makino Buxaceae.**Box.**Col. No. 174. 'Koruguwa-gii'. Kunigami-son. Small evergreen shrub; similar in appearance to *B. koreana*.**226785.** *HYDRANGEA LIUKIUENSIS* Nakai Hydrangeaceae.

Col. No. 164. 'Riukiu-konterigi'. Along mountain stream of Hentona-yama. Small shrub; flowers white, in panicles; about ¼ inch across with 4 sterile bracts.

226786. *MALLOTUS PHILIPPINENSIS* (Lam.) Muell.-Arg. Euphorbiaceae.**Kamatree.**

Col. No. 154. 'Akamamiki-firajika'. Mountains of Kunigami. Small, evergreen tree; bark gray.

226787. *PONGAMI PINNAT* (L.) W. F. Wight Fabaceae. **Poonga oil pongamia.**

Col. No. 157. 'Okaha'. Mountain side, Nakazin-san, in northern Okinawa. Deciduous tree; bark gray-brown.

226788. *STYRAX KOTOENSIS* Hayata Styracaceae.**Snowbell.**

Col. No. 160. 'Samagi'. Mateira-gewa, Hentona district, Kunigami-son. Small tree; bark gray and black; fruits globose.

226789. *VIBURNUM AWABUKII* C. Koch Caprifoliaceae.

Col. No. 155. 'Sasagi'. Shoshi-ugan, Nakazin-san. Bushy, evergreen tree; young foliage reddish; fruits bright red, oval, in broad panicles.

226790. *GUIZOTIA ABYSSINICA* (L.f.) Cass. Asteraceae.

From Ethiopia. Seed collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6, 1955.

Col. No. 376. 'Morg'. Market, Addis Ababa. May 17, 1955.

226791. *MISCANTHIDIUM VIOLACEUM* (Schum.) Robyns Poaceae.

From the Union of South Africa. Seeds presented by the Experiment Station of the South African Sugar Association, Natal. Received July 7, 1955.

226792 to 226794.

From Australia. Seeds presented by H. G. Kershaw, "Glenview," Pymble, New South Wales. Received July 7, 1955.

226792. *CALLISTEMON ACUMINATUS* Cheel. Myrtaceae.**Bottlebrush.****226793.** *CLIANTHUS SPECIOSUS* Steud. Fabaceae.**Parrotbeak.****226794.** *MELALEUCA HYPERICIFOLIA* J. E. Sm. Myrtaceae.**226795.** *HIBISCUS CANNABINUS* L. Malvaceae.**Kenaf.**

From India. Seeds presented by V. G. Desai, Nadiad, Kavia, through the American Consulate General, Bombay. Received July 7, 1955.

226796 to 226804. *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

From the Netherlands. Seeds presented by the Ministry of Agriculture, Wageningen. Received July 7, 1955.

Originally from Canada.

226796. LOC—55.190.**226801.** Loc. 55.05 L.**226797.** 55.5f 001.**226802.** Loc. 55.152.**226798.** 55.5f 002.**226803.** Loc. 55.199.**226799.** Loc. 55.00 f.**226804.** Loc. 55.300.**226800.** Loc. 55.05 f.

226805 to 226836.

From Japan. Seeds presented by A. Moriya, Utsunomiya. Received July 8, 1955.
From the Island of Honshu.

226805. *AGROPYRON SEMICOSTATUM* (Steud.) Nees ex Boiss. Poaceae. **Droping wheatgrass.**

Utsunomiya.

226806 and 226807. *AGROSTIS CLAVATA* Trin. Poaceae. **Bentgrass.**

226806. Osawa Village.

226807. Sanpei-Pass, Gumma Prefecture.

226808. *AGROSTIS CLAVATA* var. *NUKABO* Ohwi **Bentgrass.**

Ninasuno-Machi.

226809. *AGROSTIS FLACCIDA* Hack. **Bentgrass.**

Mt. Kosin, Tochigi Prefecture.

226810. *AGROSTIS NIPPONENSIS* Honda **Bentgrass.**

Kurodawara.

226811. *ARUNDINELLA HIRTA* var. *CILIATA* (Thunb.) Koidz. Poaceae.

Ninasuno-Machi.

226812 to 226814. *BRACHYPODIUM JAPONICUM* Miq. Poaceae **Falsebrome.**

226812. Ninasuno-Machi.

226813. Mount Takahara, Tochigi Prefecture.

226814. Mount Koshin, Tochigi Prefecture.

226815 and 226816. *BROMUS SECALINUS* L. Poaceae. **Chess brome.**

226815. Mount Koshin.

226816. Osima-Village, Miyagi Prefecture.

226817. *BROMUS WILLDENOWII* Kunth **Rescuegrass.**

Mikuni-Bridge, Ibaragi Prefecture.

226818. *CALAMAGROSTIS ARUNDINACEA* var. *SCIUROIDES* (Franch. & Sav.) Hack.

Poaceae. **Reedgrass.**

Ninasuno-Machi.

226819. *CYMOPOGON GOERINGII* (Steud.) A. Camus Poaceae.

Ninasuno-Machi.

226820. *DIARRHENA JAPONICA* Franch. & Sav. Poaceae.

Mount Kosin, Tochigi Prefecture.

226821. *ERAGROSTIS FERRUGINEA* (Thunb.) Beauv. Poaceae. **Lovegrass.**

Ninasuno-Machi.

226822 and 226823. *ERIOCHLOA VILLOSA* (Thunb.) Kunth Poaceae.

Hairy cupgrass.

226822. Okamoto, suburb at Utsunomiya.

226823. Utsunomiya.

226824. *FESTUCA SUBULATA* var. *JAPONICA* Hack. Poaceae. **Fescue.**

Sanpei-Pass, Gumma Prefecture.

226825. *FESTUCA* sp.

Yumoto, Nikko, Utsunomiya.

226826. *GLYCERIA LITHUANICA* (Gorski) Lindm. Poaceae. **Mannagrass.**

Yamanohana, Oze, Gumma Prefecture.

226805 to 226836—Continued

226827. *GLYCERIA REMOTA* var. *JAPONICA* Hack. Mannagrass.
Mount Hiuti, Oze, Fukusima Prefecture.
226828. *GLYCERIA TONGLENSIS* C. B. Clarke Poaceae. Mannagrass.
Utsunomiya.
226829. *ISCHAEMUM CRASSIPES* (Steud.) Thell. Poaceae.
Yakusidi-Village.
226830. *MISCANTHUS MATSUMURAE* Hack. Poaceae. Silvergrass.
Mount Takahara.
226831. *MISCANTHUS SINENSIS* Anderss. Chinese silvergrass.
Nisinasuno-Machi.
226832. *POA* sp. Poaceae.
Nisinasuno-Machi. Received as *P. alopecuroides*; an apparently unpublished name.
226833. *POA NIPPONICA* Koidz. Bluegrass.
Utsunomiya.
226834. *SETARIA GLAUCA* (L.) Beauv. Poaceae. Millet.
Nisinasuno-Machi.
226835. *SPODIOPOGON COTULIFER* (Thunb.) Hack. Poaceae.
Nisinasuno-Machi.
226836. *TRisetum FLAVESCENS* var. *BIFIDUS* Makino Poaceae.
Utsunomiya.

226837 to 226851. SORGHUM VULGARE Pers. Poaceae.

From the United States. Seeds collected by F. M. Simoons, University of California, Berkeley, California. Received July 11, 1955.

Original sources indicated.

226837. Jos, Nigeria.
226838. 19. 'Bullay Mashilla'. Ethiopia.
226839. 32. 'Bullay Mashilla'. Begermdir Province, Ethiopia.
226840. M-4 'Bullay Mashilla'. Mariam Deber, Ethiopia.
226841. 'Dauwa Irigwe Nwiya Ke'. Miango, Nigeria.
226842. 'Dauwa Irigwe Nwiya Sho'. Miango, Nigeria.
226843. 'Dauwa Irigwe Ruan Kalay'. Miango, Nigeria.
226844. 'Dirkina'. Begermdir Province, Ethiopia.
226845. 'El Obeid'. Anglo-Egyptian Sudan.
226846. 'Kwontch'. Bengemdir Province, Ethiopia.
226847. S-9. 'Mayla'. Silaszi, Ethiopia.
226848. S-10. 'Mayla'. Silaszi, Ethiopia.
226849. 'Warayta Mashilla'. Wallaka Village, Ethiopia.
226850. 18-K. 'Warayta Mashilla'. Ethiopia.
226851. 'Zangada'. Northeast of Debre Tabor, Amus Wonz District, Ethiopia.

226852 to 226930. PHASEOLUS VULGARIS L. Fabaceae.**Common bean.**

From New York. Seeds at the Regional Plant Introduction Station, Geneva. Numbered July 11, 1955.

Presented by Dr. O. H. Pearson, Eastern States Exchange, West Springfield, Mass.; originally from Dr. A. S. Archimowitsch, Brooklyn, N. Y., who obtained seeds in countries listed.

- 226852. N13. 'Abigarrada Roja'. Ukraine.
- 226853. N17. 'Abigarrada Roja'. Ukraine.
- 226854. N75. 'Alubia Abigarrada'. Spain.
- 226855. N96. 'Alubia Abigarrada'. Ukraine.
- 226856. N118. 'Alubia Blanca de Asturias'. Spain.
- 226857. N68. 'Alubia Blanca de Longrono'. Spain.
- 226858. N116. 'Alubia Blanca Leonera'. Spain.
- 226859. N60. 'Alubia de Aranjuer'. Spain.
- 226860. N104. 'Alubia de Lima'. Spain.
- 226861. N117. 'Alubia Pinta'. Spain.
- 226862. N114. 'Alubia Pinta de Leon'. Spain.
- 226863. N74. 'Alubia Pinta Saldana'. Spain.
- 226864. N91. 'Alubia Verde'. Ukraine.
- 226865. N9. 'Amarilla Enana'. Ukraine.
- 226866. N106. 'Argelia'. Spain.
- 226867. N105. 'Banasa Oro'. Spain.
- 226868. N41. 'Beste von Allen'. Germany.
- 226869. N4. 'Blanca'. Ukraine.
- 226870. N67. 'Blanca Redonda de Saldana'. Spain.
- 226871. N2. 'Bomba'. Ukraine.
- 226872. N8. 'Bomba'. Ukraine.
- 226873. N86. 'Bomba Blanca'. Ukraine.
- 226874. N73. 'Bomba de Aceituna'. Spain.
- 226875. N102. 'Carnaval de Venecia'. Spain.
- 226876. N14. 'Chudo of Paris'. Ukraine.
- 226877. N16. 'Chudo of Paris' (early). Ukraine.
- 226878. N18. 'Chudo of Paris'. Ukraine.
- 226879. N84. 'Chudo of Paris'. Ukraine.
- 226880. N92. 'Chudo of Paris'. Ukraine.
- 226881. N36. 'Dopp. Holland Princes'. Germany.
- 226882. N70. 'Finea de la Rasa'. Spain.
- 226883. N34. 'Flageolet'. France.
- 226884. N55. 'Gellhorn'. Germany.
- 226885. N35. 'Genfor Markt'. Germany.
- 226886. N39. 'Goldhorn Gallhilsige'. Germany.
- 226887. N40. 'Grinstige'. Germany.
- 226888. N121. 'Judia Britle'. Spain.

226852 to 226930—Continued

226889. N56. 'Judia de Savilla'. Spain.
226890. N57. 'Judia de Valladolid'. Spain.
226891. N63. 'Judia Pintas'. Spain.
226892. N22. 'Lopata'. Ukraine.
226893. N21. 'Maculata'. Ukraine.
226894. N108. 'Mantecoza de Aragon'. Spain.
226895. N42a. 'Mont D'os'. France.
226896. N42b. 'Mont D'os'. France.
226897. N65. 'Morada'. Spain.
226898. N113. 'Pan de Libano'. Spain.
226899. N120. 'President Roosevelt'. Spain.
226900. N115. 'Prinzesa'. Spain.
226901. N119. 'Prinzesa Perfeccion'. Spain.
226902. N5. 'Rifion'. Ukraine.
226903. N6. 'Rifion'. Ukraine.
226904. N7. 'Rifion'. Ukraine.
226905. N72. 'Rifion Blanca'. Spain.
226906. N69. 'Rifion de Saldana'. Spain.
226907. N111. 'Sable Amarillo'. Spain.
226908. N61. 'Sable Verde'. Spain.
226909. N64. 'Sable Verde'. Spain.
226910. N66. 'Sable Verde'. Spain.
226911. N110. 'Sable Verde'. Spain.
226912. N83. 'Saltano'. France.
226913. N44a. 'San Fiacre'. Ukraine.
226914. N44b. 'San Fiacre'. Ukraine.
226915. N59. 'Sparchevaia Custovaia'. Ukraine.
226916. N100. 'Sparchevaia Custovaia' (early). Spain.
226917. N47a. 'Sparshchevaia'. Ukraine.
226918. N47b. 'Sparshchevaia'. Ukraine.
226919. N48. 'Sparshchevaia'. France.
226920. N49. 'Sparshchevia Voscovaia'. Ukraine.
226921. N50. 'Sparshchevia Voscovaia'. Ukraine.
226922. N51. 'Sparshchevia Voscovaia'. Ukraine.
226923. N52. 'Sparshchevia Voscovaia'. Ukraine.
226924. N93a. 'Triumfo' (very early). Ukraine.
226925. N93b. 'Triumfo' (very early). Ukraine.
226926. N87. 'Wilhelm'. Ukraine.
226927. N97. 'Zernovaia'. Ukraine.
226928. N11. 'Zernovaia Custovaia'. Ukraine.
226929. N25. 'Zernovaia Custovaia'. France.
226930. N27. 'Zernovaia Custovaia'. France.

226931 to 226939. PHASEOLUS VULGARIS L. Fabaceae.**Common bean.**

From Washington. Seeds held at the Regional Plant Introduction Station, Pullman. Numbered July 11, 1955.

From Prof. F. L. Smith, University of California, Davis, Calif.

Originally from Gaterslebon, Germany.

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|---------------------------------------|--|
| 226931. 'Heinrichs Reisen' | 226936. 'Wachs Digoin'. |
| 226932. 'Hundert Für Eine'. | 226937. 'Wachs Ideal'. |
| 226933. 'Illsenburger Bunt'. | 226938. 'Wachs Hundert Für Eine'. |
| 226934. 'Illsenburger Weisse'. | 226939. 'Weibulls Stella'. |
| 226935. 'Konserva'. | |

226940 to 226954.

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 11, 1955.

Collected March and May, 1955.

226940. AMMI COPTICUM L. Apiaceae.

Col. No. 378. 'Netch Azmood'. Market, Addis Ababa. A spice.

226941. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Poaceae. Turkestan bluestem.

Col. No. 362. Along roadside about 180 miles south of Addis Ababa. Bunch-grass about 4 feet high.

226942. BETA sp. Chenopodiaceae.

Col. No. 349. Along side of road at edge of Addis Ababa. About 2 feet high, sparsely branched.

226943 to 226945. CICER ARIETINUM L. Fabaceae. Chickpea.

226943. Col. No. 398. 'Grande Bico-Garbanzo'. Market, Addis Ababa. Small, popular variety.

226944. Col. No. 399. 'Grande Bico-Garbanzo'. Market, Addis Ababa.

226945. Col. No. 400. 'Grande Bico-Garbanzo'. Market, Addis Ababa.

226946. ERAGROSTIS TEF (Zucc.) Trotter Poaceae. Teff.

Col. No. 386. Market, Addis Ababa.

226947. HORDEUM sp. Poaceae.

Col. No. 408. Market, Addis Ababa.

226948. LATHYRUS SATIVUS L. Fabaceae. Grass peavine.

Col. No. 387. Market, Addis Ababa.

226949. MEDICAGO POLYMORPHA VAR. VULGARIS (Benth.) Shinnars Fabaceae. California burclover.

Col. No. 364. Vacant lot, Addis Ababa.

226950. RUMEX sp. Polygonaceae.

Col. No. 369. Along edge of streets, Jimma.

226951. SECALE CEREALE L. Poaceae. Rye.

Col. No. 404. Market, Addis Ababa.

226952. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.

Col. No. 363. Roadside, about 108 miles south of Addis Ababa.

226940 to 226954—Continued

- 226953.** *TRIFOLIUM REPENS* L. **Whiteclover.**
Col. No. 361. Roadside, about 160 miles south of Addis Ababa. Grows about 6 inches high.
- 226954.** *TRIFOLIUM UMBELLULATUM* A. Rich. **Clover.**
Col. No. 370. Jimma. Plants upright, grow well in black, wet soils.

226955 to 226966.

From Kenya. Seeds presented by the Grassland Research Station, Department of Agriculture, Kitale. Received July 12, 1955.

- 226955.** *ANDROPOGON CANALICULATUS* Schumach. Poaceae. **Bluestem.**
No. K53913.
- 226956.** *ANDROPOGON CHRYSOSTACHYUS* Steud. **Bluestem.**
No. K5278.
- 226957.** *ANDROPOGON DUMMERI* Stapf **Bluestem.**
- 226958.** *BOTHRIOCHLOA INSCULPTA* (Hochst.) A. Camus Poaceae.
No. K52299.
- 226959.** *BOTHRIOCHLOA PERTUSA* (L.) A. Camus
No. K53510.
- 226960.** *BOTHRIOCHLOA INSCULPTA* var. *VEGETIOR* (Hack.) C. E. Hubb.
No. K54116.
- 226961.** *BOTHRIOCHLOA RADICANS* (Lehm.) A. Camus
No. K52356.
- 226962.** *CHRYSOPOGON AUCHERI* var. *QUINQUEPLUMIS* Stapf Poaceae.
- 226963.** *CYMOPOGON AFRONARDUS* Stapf Poaceae.
No. K515x#.
- 226964.** *HACKELOCHLOA GRANULARIS* (L.) Kuntze Poaceae.
No. 3906.
- 226965.** *HETEROPOGON MELANOCARPUS* (Ell.) Benth. Poaceae. **Sweet tanglehead.**
No. AB3741.
- 226966.** *SACCHARUM SPONTANEUM* var. *AEGYPTIACUM* Hack. Poaceae. **Sugarcane.**

226967 to 226992.

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 12, 1955.

Collected July 5 to 7, 1955.

- 226967.** *ACER DISTYLUM* Sieb. & Zucc. Aceraceae. **Maple.**
Col. No. 188. 'Maroba Kaede'. Aokigahara Forest, foot of Mount Fuji.
- 226968.** *CLEMATIS OCHOTENSIS* Poir. Ranunculaceae.
Col. No. 203. At timberline, Mount Fuji. Small vine; flowers dark purple.
- 226969.** *CORNUS KOUSA* Hance Cornaceae. **Kousa dogwood.**
Col. No. 196. 'Yamaboshi'. Open meadow above Aokigahara Forest. Typical except for pink bracts and reddish leaves. (Cuttings).
- 226970.** *DIOSCOREA TENUIPEDES* Franch. & Sav. Dioscoreaceae. **Yam.**
Col. No. 192. 'Hime-dokoro'. Open meadow above Aokigahara Forest. Flowers of male plant orange; tubers roundish.

226967 to 226992—Continued

- 226971 and 226972.** *DIOSCOREA TOKORO* Makino Yam.
226971. Col. No. 190. Open meadow above Aokigahara Forest. Leaves cordate, margin purple; tubers horizontal, elongated.
226972. Col. No. 191. Open meadow above Aokigahara Forest. Leaves cordate, margin purple; tubers horizontal, elongated.
- 226973.** *FRAGARIA NIPPONICA* Makino Rosaceae. Strawberry.
 Col. No. 205. At timberline, Mount Fuji. Flowers small, white.
- 226974.** *HYDRANGEA SERRATA* f. *ACUMINATA* (Sieb. & Zucc.) Wils. Hydrangeaceae.
 Col. No. 186. 'Sawagaku'. Aokigahara Forest, foot of Mount Fuji. Pale-pink sterile florets.
- 226975.** *HYDRANGEA HIRTA* Siebold
 Col. No. 180. 'Shiba-ajisai'. Aokigahara Forest, foot of Mount Fuji. Small shrub with pale-blue flowers in umbels about 2 inches across.
- 226976.** *ILEX CRENATA* Thunb. Aquifoliaceae. Japanese holly.
 Col. No. 187. 'Intsuga'. Aokigahara Forest, foot of Mount Fuji. Plants with unusually long narrow leaves.
- 226977.** *ILEX SUGEROKII* Maxim. Sugeroki holly.
 Col. No. 181. 'Aka-tsuge'. Forest of Aokigahara, in dense shade, foot of Mount Fuji. Elevation 3,600 feet. Evergreen shrub; leaves ovate, very glossy; fruits red.
- 226978.** *LILIUM AURATUM* Lindl. Liliaceae. Goldband lily.
 Col. No. 199. 'Yama-yuri'. Aokigahara Forest, foot of Mount Fuji. Growing on rocks.
- 226979.** *MENZIESIA* sp. Ericaceae.
 Col. No. 182. 'Sairin Yoraku'. Aokigahara Forest, foot of Mount Fuji. Deciduous shrub.
- 226980.** *PAEONIA JAPONICA* Miyabe & Takeda Ranunculaceae.
 Col. No. 193. 'Yama-sho-kuyaku'. Semishade in Aokigahara Forest, foot of Mount Fuji. Flowers white, appearing in April.
- 226981.** *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. Japanese pieris.
 Col. No. 198. 'Asebi'. Aokigahara Forest, foot of Mount Fuji. Plant unusually dense; leaves dark green, broad-ovate to obovate.
- 226982.** *PYROLA ASARIFOLIA* var. *INCARNATA* (DC.) Fernald Pyrolaceae.
 Col. No. 202. At timberline, Mount Fuji. Ground covering plant with basal leaves in semi-shaded area; flowers pink, in spikes up to 4 inches long.
- 226983.** *PYROLA MEDIA* Sw.
 Col. No. 189. 'Marubano-ichiyakusa'; 'Nephrophylla'. Aokigahara Forest, foot of Mount Fuji. Plants prostrate; leaves rounded; flowers white, on scape about 6 inches long.
- 226984.** *RHODODENDRON FAUREI* Franch. Ericaceae.
 Col. No. 201. At timber line, Mount Fuji. Elevation 7,500 feet. Flowers yellowish with distinct blotch, ranging from almost white to pink-striped.
- 226985.** *RHODODENDRON KEISKEI* Miq.
 Col. No. 195. 'Hikage-tsutsuji'. Semi-shade in Aokigahara Forest, foot of Mount Fuji. Low-growing shrub; flowers yellow.
- 226986.** *ROSA ACICULARIS* var. *NIPPONENSIS* (Crip.) Koehne Rosaceae. Nippon prickly rose.
 Col. No. 200. Larix-Tsuga woods at timberline of Mount Fuji. Elevation 7,500 feet. An alpine species; flowers red, single; leaves pale green, ovate.

226967 to 226992—Continued

226987. *SKIMMIA REPENS* Nakai Rutaceae.

Col. No. 184. 'Tsuru-shikimi'. Aokigahara Forest, foot of Mount Fuji. Small evergreen shrub; leaves narrow, ovate, entire, whorled; fruits tiny, red, in terminal clusters.

226988. *SORBUS GRACILIS* (Sieb. & Zucc.) K. Koch Malaceae. **Mountainash.**

Col. No. 185. Aokigahara Forest, foot of Mount Fuji. Woody shrub; leaves glossy, compound; fruits reddish, in terminal clusters.

226989. *TRIPETALEIA PANICULATA* Sieb. & Zucc. Ericaceae.

Col. No. 183. 'Ha-tsutsutsi'. Aokigahara Forest, foot of Mount Fuji. Woody shrub; leaves alternate, ovate; flowers white, in terminal spikes.

226990 and 226991. *VACCINIUM VITIS-IDAEA* L. Vacciniaceae.

226990. Col. No. 194. 'Kokamomo'. Semi-shade in Aokigahara Forest, foot of Mount Fuji. Low ground-covering, evergreen plants.

226991. Col. No. 204. At timberline, Mount Fuji. A form with pure white flowers.

226992. *VIBURNUM FURCATUM* Blume Caprifoliaceae. **Forked viburnum.**

Col. No. 197. 'Okamenoki'. Aokigahara Forest. Elevation 3,000 feet. Large shrub; flowers white, in large terminal clusters; fruits red.

226993. *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

From Israel. Seeds presented by the United States Operations Mission to Israel, Tel Aviv. Received July 12, 1955.

226994. *ORMOSIA* sp. Fabaceae.

From the Canal Zone. Seeds presented by the Canal Zone Experiment Gardens, Summit. Received July 13, 1955.

226995 to 227000.

From Uruguay. Seeds presented by the Instituto Fitotecnico y Semillero Nacional 'La Estanzuela,' Colonia. Received July 13, 1955.

226995. *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**

226996. *TRIFOLIUM REPENS* L. **Whiteclover.**

64/65/51.

226997 to 227000. *TRIFOLIUM SUBTERRANEUM* L. **Subterranean clover.**

226997. 'Bass 19/48'.

226999. L.E. 68/31.

226998. 'KYBYBOLITE 56/50'. **227000.** 'Nangeela 18/48'.

227001. *MELILOTUS MESSANENSIS* (L.) All. Fabaceae. **Sweetclover.**

From Israel. Seeds presented by the Agricultural Experiment Station, Nve-Yaar. Received July 21, 1955.

No. 997-1.

227002. *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**

From the Anglo-Egyptian Sudan. Seeds presented by Dr. Dark, Khartoum, North Shambat. Received July 25, 1955.

BAR 12/10. B₂B_{6m} on a BP₅₂ stock).

227003 to 227006.

From Portugal. Seeds presented by Miguel Moutinho Abosia Lere, Lisbon. Received July 25, 1955.

227003. *MELILOTUS SULCATA* Desf. Fabaceae. **Sweetclover.**

From a farm near Lisbon.

227003 to 227006—Continued

227004 to 227006. MELILOTUS SEGETALIS (Brot.) Seringe. **Sweetclover.**

227004. I.S.A. 1955.

227005. I.S.A. 199.

227006. From a commercial source, Lisbon.

227007 to 227053.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 13, 1955.

Collected April and May, 1955.

227007. HYPARRHENIA HIRTA (L.) Stapf Poaceae.

Col. No. 14621. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Sandstone rocks. Bushy, spreading perennial to 2 feet high.

227008. ASTRAGALUS sp. Fabaceae.

Col. No. 14736. Thirty-three miles east of Kazerun. Elevation 4,200 feet. Erect annual; eaten by cattle.

227009. AVENA sp. Poaceae.

Col. No. 14650. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet.

227010. BETA VULGARIS L. Chenopodiaceae. **Common beet.**

Col. No. 14589. Irrigated field near Ahwaz.

227011. BRACHYPODIUM sp. Poaceae.

Col. No. 14603. Near Abe-e Gonji, halfway between Ahwaz and Shushtar. Annual grass, to 1 foot high.

227012. BRASSICA OLERACEA VAR. CAPITATA L. Brassicaceae. **Cabbage.**

Col. No. 14568. 'Kalam'. Market, Ahwaz.

227013. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

Col. No. 14566. Market, Ahwaz. A short yellowish-green variety.

227014. DAUCUS CAROTA L. Apiaceae. **Carrot.**

Col. No. 14573. 'Habitch'. Market, Ahwaz. Grown locally.

227015. ERAGROSTIS sp. Poaceae.

Col. No. 14617. Fifteen miles south of Shushtar. Elevation 800 feet. Weedy grass, to 2 feet high.

227016. SCANDIX PECTEN-VENERIS L. Apiaceae.

Col. No. 14655. Thirty miles north of Andimenshk along road to Khorramabad. Diffuse, erect annual.

227017. GERANIUM TRILOPHUM Boiss. Geraniaceae.

Col. No. 14616. Fifteen miles south of Shushtar. Elevation 800 feet. Tender, diffuse herb among rocks.

227018. HORDEUM VULGARE L. Poaceae. **Barley.**

Col. No. 14694. 'Joh'. Market, Kazerun. Elevation 3,000 feet.

227019. HORDEUM SPONTANEUM C. Koch Poaceae. **Barley.**

Col. No. 14620. Fifteen miles south of Shushtar. Elevation 800 feet. Wild, on rocky slope.

227020. LOLIUM sp. Poaceae.

Col. No. 14580. Cultivated fields near Ahwaz. Weedy grass, used for forage.

227007 to 227053—Continued

- 227021.** *MEDICAGO ARABICA* (L.) All. Fabaceae. **Spotted burclover.**
Col. No. 14629. Fifty miles north of Ahwaz along road to Dezful.
- 227022 to 227024.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinners
California burclover.
- 227022.** Col. No. 14658. Thirty miles north of Andimenshk along road to Korramabad. Elevation 1,700 feet. Erect annual.
- 227023.** Col. No. 14611. Fifteen miles south of Shushtar. Elevation 800 feet. Erect to spreading annual to 6 inches high.
- 227024.** Col. No. 14612. Fifteen miles south of Shushtar. Elevation 800 feet. Erect annual.
- 227025.** *MEDICAGO MUREX* Willd. **Medic.**
Col. No. 14633. Twenty miles north of Dezful along road to Kohrramabad. Elevation 1,200 feet. Stems about 1 foot long; flowers yellow.
- 227026 and 227027.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinners
California burclover.
- 227026.** Col. No. 14640. Twenty miles north of Dezful along road to Khorrabad. Elevation 1,200 feet. Drought-pauperized annual, to 3 inches high.
- 227027.** Col. No. 14648. Thirty miles north of Andimenshk along road to Khorrabad. Elevation 1,700 feet. Small, prostrate annual.
- 227028 to 227030.** *MEDICAGO ORBICULARIS* (L.) All. **Buttonclover.**
- 227028.** Col. No. 14662. Thirty miles north of Andimenshk along road to Khorrabad. Elevation 1,700 feet. Annual herb in moist swale.
- 227029.** Col. No. 14729. Six miles east of Kazerun. Elevation 3,000 feet.
- 227030.** Col. No. 14740. Twenty miles east of Kazerun. Elevation 4,200 feet. Spreading, prostrate, annual, in fallow field.
- 227031.** *MEDICAGO ARABICA* (L.) All. **Spotted burclover.**
Col. No. 14599. Twenty-five miles northeast of Ahwaz. Low spreading annual.
- 227032.** *MEDICAGO MINIMA* (L.) Grubb. **Little medic.**
Col. No. 14646. Twenty miles north of Dezful along road to Khorrabad. Elevation 1,200 feet. Drought-pauperized annual, to 3 inches high.
- 227033.** *MEDICAGO* sp.
Col. No. 14670. On 1,500 year old dam at Shushtar. Spreading annual.
- 227034.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinners
California burclover.
Col. No. 14741. Twenty miles east of Kazerun. Elevation 4,200 feet. Prostrate herb in fallow field; fruiting heavily.
- 227035.** *MELICA* sp. Poaceae.
Col. No. 14820. Fifty miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Brittle perennial growing in rock crevices.
- 227036.** *MELILOTUS INDICA* (L.) All. Fabaceae. **Annual yellow sweetclover.**
Col. No. 14584. Irrigated fields near Ahwaz. Erect and spreading annual; reportedly eaten by cattle.
- 227037.** *OMPHALODES* sp. Boraginaceae.
Col. No. 14817. Twenty miles southeast of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Small desert annual.
- 227038.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**
Col. No. 14753. 'Esperess'. Market, Shiraz. Elevation 5,200 feet.

227007 to 227053—Continued**227039.** *ONOBRYCHIS* sp.

Col. No. 14614. Fifteen miles south of Shushtar. Elevation 800 feet. Erect, widely scattered annual on arid slope.

227040. *ONOBRYCHIS* sp.

Col. No. 14644. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Ascending annual to 6 inches high.

227041. *PHASEOLUS AUREUS* Roxb. Fabaceae.**Mung bean.**

Col. No. 14564. Market, Ahwaz.

227042. *PHASEOLUS COCCINEUS* L.**Scarlet runner bean.**

Col. No. 14558. 'Lubia Esfahan'. Market, Ahwaz.

227043. *PLANTAGO* sp. Plantaginaceae.

Col. No. 14639. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Low, stooling annual.

227044. *RUMEX* sp. Polygonaceae.

Col. No. 14625. Fifteen miles south of Shushtar. Elevation 800 feet. Large herb eaten by cattle.

227045. *SPINACIA OLERACEA* L. Chenopodiaceae.**Common spinach.**

Col. No. 14723. Market, Kazerun. Elevation 3,000 feet. Growing in lime soil.

227046. *TRIFOLIUM* sp. Fabaceae.

Col. No. 14664. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Erect, single-stemmed annual.

227047. *TRIFOLIUM* sp.

Col. No. 14669. Twelve miles north of Andimenshk along road to Khorramabad. Elevation 800 feet. Colonial annual, to 5 inches high.

227048. *TRIGONELLA RIGIDA* Boiss. Fabaceae.

Col. No. 14592. Irrigated field near Ahwaz. Growing in hard, silty alluvium. Decumbent, spreading annual.

227049 and 227050. *TRIGONELLA NOEANA* Boiss.

227049. Col. No. 14631. Fifty miles north of Ahwaz along road to Dezful. Diffuse, low annual.

227050. Col. No. 14739. About 11 miles east of Kazerun. Elevation 4,200 feet. Spreading annual.

227051. *TRIGONELLA MONSPELIACA* L.

Col. No. 14743. About 11 miles east of Kazerun along road to Shiraz. Elevation 4,200 feet. Small, low annual with both prostrate and erect stems.

227052. *VICIA ERVILIA* (L.) Willd. Fabaceae.**Bitter vetch.**

Col. No. 14672. 'Qesen'. About 7 miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet.

227053. *VICIA SATIVA* L. Fabaceae.**Common vetch.**

Col. No. 14742. About 11 miles east of Kazerun. Elevation 4,200 feet.

227054 to 227061. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From the Union of South Africa. Seeds presented by the Winter Rainfall Area Station, Stellenbosch, Cape Province. Received July 14, 1955.

227054. 'Beltista'.**227058.** 'Vorentoe'.**227055.** 'Daeraad'.**227059.** 'Impala'.**227056.** 'Hoopvol'.**227060.** 'Sonop'.**227057.** 'Sterling'.**227061.** 'Spitskop R001'.

227062 to 227112.

From Japan. Cuttings collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 15, 1955.

- 227062 and 227063.** *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**
227062. 'Seihi'. Rokuji-Kai, Archi Prefecture.
227063. 'Bon-Shiro-tama'. Rokuji-Kai, Archi Prefecture.
- 227064.** *CAMELLIA SASANQUA* Thunb. **Sasanqua camellia.**
 'Kanjiro'. Rokuji-Kai, Archi Prefecture.
- 227065.** *CAMELLIA RETICULATA* Lindl. **Netvein camellia.**
 'Wabisuke'. Rokuji-Kai, Archi Prefecture.
- 227066 to 227112.** *RHODODENDRON* (hybrids). Ericaceae.
- | | |
|---|--|
| 227066. 'Ai-Koku'. | 227090. 'Kin-No-Sai'. |
| 227067. 'Ama-Gasa'. | 227091. 'Ko-Zan'. |
| 227068. 'Baiy-Ko'. | 227092. 'Kotubuki'. |
| 227069. 'Banga-Ku'. | 227093. 'Kozannishiki' (Rokuji-Kai). |
| 227070. 'Banga-Yu' (Rokuji Kai). | 227094. 'Kusu-Dama'. |
| 227071. 'Banjyo No Homare'. | 227095. 'Matu-Mami'. |
| 227072. 'Ban-Jo-No-Tuki'. | 227096. 'Rei-Getu'. |
| 227073. 'Ban-Ka'. | 227097. 'Sei-Dai' (Rokuji-Kai). |
| 227074. 'Ban-O'. | 227098. 'Sei-Ko-No-Tuki'. |
| 227075. 'Chi-Kyu-Nisiki'. | 227099. 'Shin-Ki-Gen'. |
| 227076. 'Cho-Ju-No-Iwai'. | 227100. 'Shoshi-No-Hana'. |
| 227077. 'Chukyo-No-Haru' (Rokuji Kai). | 227101. 'Sin-Nyo-No-Hikari'. |
| 227078. 'Dai-Shu-Kai'. | 227102. 'Sin-Nyo-No-Tuki'. |
| 227079. 'Eikan' (Roku Kai). | 227103. 'So-Ko'. |
| 227080. 'Getu-Toku'. | 227104. 'Tai-Fuku' (Rokuji-Kai). |
| 227081. 'Gyo-Ku-Shino' (Rokuji Kai). | 227105. 'Tai-Hei'. |
| 227082. 'Gyo-Ten'. | 227106. 'Tai-Kan' (Rokuji-Kai). |
| 227083. 'Hei-Wa'. | 227107. 'Tama-Hata'. |
| 227084. 'Hi-Gasa'. | 227108. 'Tanima-No-Yuki'. |
| 227085. 'Issho-No-Haru'. | 227109. 'Tatu-Mi-No-Hikari'. |
| 227086. 'Ka-Ho' (Rokuji-Kai). | 227110. 'Ten-Kai' (Rokuji-Kai). |
| 227087. 'K-Getu'. | 227111. 'Tochi-No-Hikari' (Rokuji-Kai). |
| 227088. 'Kan-Ki' (Rokuji-Kai). | 227112. 'Wa-Ko' (Rokuji-Kai). |
| 227089. 'Ki-Ko-Shi'. | |

227113 and 227114.

From Greece. Seeds presented by the Hellenic Agricultural Research Station, Larissa. Received July 15, 1955.

- 227113.** *MELILOTUS ITALICA* (L.) Lam. Fabaceae. **Sweetclover.**
227114. *MELILOTUS SULCATA* Desf. **Sweetclover.**
 Originally from Rabat, Morocco.

- 227115.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received July 15, 1955.
'Westralia'.
- 227116.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
From New Zealand. Seeds presented by the Department of Scientific and Industrial Research, Lincoln. Received July 15, 1955.
'Sweetcrop'.
- 227117 and 227118.** *LATHYRUS SYLVESTRIS* L. Fabaceae. **Flat peavine.**
From the Netherlands. Seeds presented by the Institute voor de Veredeling van Truinbouwgewassen, Wageningen. Received July 18, 1955.
227117. Originally from the Botanic Garden, Munich, Germany.
227118. Originally from the Botanic Garden, Cologne, Germany.
- 227119 to 227133.**
From Japan. Plants and tubers collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 18, 1955.
Collected July 11 and 12, 1955.
- 227119.** *PIERIS NANA* (Maxim.) Makino Ericaceae. **Kamchatka pieris.**
Col. No. 212. Mount Asama, Karuizawa. Elevation 1,400 meters. Prostrate shrub; flowers white, in short terminal racemes.
- 227120.** *CASSIOPE LYCOPODIOIDES* (Pall.) D. Don Ericaceae. **Alaska cassiope.**
Col. No. 217. Mount Asama, Karuizawa. Prostrate shrub growing in deep cleft in rocks.
- 227121 and 227122.** *DIOSCOREA NIPPONICA* Makino Dioscoreaceae. **Yam.**
227121. Col. No. 206. 'Uchiwa Dokoro'. Hoshino Karuizawa, Nagan Prefecture. Tuber horizontal, snakelike, up to 30 cm. long.
227122. Col. No. 209. 'Uchiwa Dokoro'. Hoshino, Karuizawa. Growing in semishade.
- 227123.** *DIOSCOREA TOKORO* Makino **Yam.**
Col. No. 220. Hochino, Karuizawa. Mountain trail in semishade.
- 227124.** *EMPETRUM NIGRUM* var. *JAPONICUM* K. Koch Empetraceae.
Col. No. 214. Mount Asama, Karuizawa. Elevation 1,400 meters; among lava-flow rocks.
- 227125.** *GAULTHERIA MIQUELIANA* Takeda Ericaceae. **Miquel wintergreen.**
Col. No. 215. Mount Asama, Karuizawa. Elevation 1,400 meters; among lava-flow rocks. Shrub low; flowers and fruits white.
- 227126.** *LATHYRUS DAVIDII* Hance Fabaceae. **Peavine.**
Col. No. 208. Scandent perennial vine; racemes orange-yellow; flowers in early July.
- 227127.** *LOISELEURIA PROCUMBENS* (L.) Desv. Ericaceae. **Alpine-azalea.**
Col. No. 213. Mount Asama, Karuizawa. Elevation 1,400 meters. Flowers deep pink.
- 227128.** *MENZIESIA CILICALYX* Maxim. Ericaceae.
Col. No. 221. Mount Asama, Karuizawa. Elevation 1,400 meters. Small deciduous shrub; flowers yellowish.

227119 to 227133—Continued

227129. *PHYLLODOCE NIPPONICA* Makino Ericaceae. **Nippon mountainheath.**

Col. No. 211. Mount Asama, Karuizawa. Elevation 1,400 meters. Small shrub; flowers white, campanulate.

227130. *RHODODENDRON TSCHONSKII* Maxim. Ericaceae. **Tschonoskii azalea.**

Col. No. 219. Mount Asama, Karuizawa. Elevation 1,400 meters. Growing in full sun. Prostrate, rock-covering species; flowers small, white.

227131. *SHORTIA SOLDANELLOIDES* (Sieb. & Zucc.) Makino Diapensiaceae.

Col. No. 210. Mount Asama Karuizawa. Elevation 1,400 meters; among lava-flow rocks. Plant small; flowers pink to red.

227132. *TRIPETALEIA BRACTEATA* Maxim. Ericaceae.

Col. No. 216. Mount Asama, Karuizawa. Elevation 1,400 meters. Deciduous shrub; flowers pink.

227133. *VACCINIUM ULIGINOSUM* L. Vacciniaceae. **Bog bilberry.**

Col. No. 218. 'Alpinum'. Mount Asama, Karuizawa. Elevation 1,400 meters. A dwarf form with leaves much smaller than normal; flowers pink.

227134 and 227135.

From Kenya. Seeds collected by J. L. Stephens, Agricultural Explorer. Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 18, 1955.

227134. *ERYTHRINA ABYSSINICA* Lam. Fabaceae. **Coraltree.**

Col. No. 347. Bell Nurseries, Nairobi. May 3, 1955. Native tree about 40 feet high.

227135. *VIGNA VEXILLATA* (L.) A. Rich. Fabaceae. **Cowpea.**

Col. No. 316. K52245. Kitale Station, Nairobi. April 29, 1955.

227136 to 227153.

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 19, 1955.

Unless otherwise noted, material collected consists of roots and bulbs.

227136 to 227148. Collected in limestone mountain south of Dastana, and Shahr Kord. July 10, 1955.

227136. *AGROPYRON* sp. Poaceae.

Col. No. 15218. Leafy perennial common on high slopes; culms to 2 feet high. Elevation 10,500 feet.

227137. *AGROPYRON* sp.

Col. No. 15219. Elevation 10,000 feet. Slender, leafy perennial.

227138. *AGROPYRON* sp.

Col. No. 15221. Elevation 9,500 feet. Tall coarse perennial; culms to 3 feet high.

227139. *AGROPYRON* sp.

Col. No. 15222. Elevation 10,000 feet. Widespread, browsed perennial.

227140. *AGROPYRON* sp.

Col. No. 15227. Elevation 9,500 feet. Perennial on steep slope.

227141. *FESTUCA* sp. Poaceae.

Col. No. 15230. Elevation 9,500 feet. Tufted perennial.

227136 to 227153—Continued**227136 to 227148—Continued****227142.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15223. Elevation 9,500 feet. Slender, tender, leafy perennial.

227143. *ORYZOPSIS* sp.

Col. No. 15225. Elevation 10,000 feet. Tender leafy perennial, about 1 foot high.

227144. *VICIA* sp. Fabaceae.

Col. No. 15224. 'Kharehcoreh'. Elevation 10,000 feet. Vigorous bushy perennial to 2 feet high, deep-rooted and apparently stoloniferous; flowers magenta.

227145. (Undetermined.) Poaceae.

Col. No. 15220. Thin-leaved perennial grass; eaten by sheep.

227146. (Undetermined.) Poaceae.

Col. No. 15226. Elevation 9,500 feet. Small, leafy perennial grass.

227147. (Undetermined.) Poaceae.

Col. No. 15228. Elevation 9,500 feet. Perennial grass.

227148. (Undetermined.) Poaceae.

Col. No. 15229. Elevation 9,500 feet. Steep rocky slope. Tufted perennial grass.

227149. (Undetermined.) Poaceae.

Col. No. 15245. Elevation 6,700 feet. Dastana. July 12, 1955. Succulent, leafy grass; adventive in garden.

227150. *CORYLUS* sp. Betulaceae.

Col. No. 14880. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. (Seeds.)

227151. *CROCUS SATIVUS* L. Iridaceae.**Saffron.**

Col. No. 15072. Estavanat, Fars. June 23, 1955. Elevation 5,900 feet. Cultivated by flood irrigation; bulbs multiply by twos; flowers harvested for condiment.

227152. *PRUNUS ARMENIACA* L. Amygdalaceae.**Apricot.**

Col. No. 14881. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. Fruits pale yellow, good size. (Seeds.)

227153. *PRUNUS PERSICA* (L.) Batsch**Peach.**

Col. No. 14879. 'Hulu'. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. Mixed local varieties; small seeds are from an early variety; large seeds are from a later variety. (Seeds.)

227154 to 227157.

From Panama. Seeds obtained by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 20, 1955.

227154. *ORMOSIA* sp. Fabaceae.

Col. No. 1. Collected by L. R. Holdridge, Bayano R., May 5, 1955.

227155. *ORMOSIA* sp.

Col. No. 2. Collected in Chiriqui Province.

227156. *ORMOSIA* sp.

Col. No. 4. Collected by Ciro de la Victoria, Panama City, May 5, 1955.

227154 to 227157—Continued

227157. *ORMOSIA* sp.

Col. No. 602. Collected north of old entrance to Corozal Cemetery, Canal Zone, May 19, 1955. Tree to 35 feet high.

227158 to 227161.

From Korea. Seeds presented by the Central Agricultural Experiment Station, Suwon. Received July 20, 1955.

227158 to 227160. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

227158. 'Changtan' (white).

227159. 'Chungbuk' (white).

227160. 'Kumgang' (large grain).

227161. *LESPEDEZA STRIATA* (Thunb.) Hook. & Arn. Fabaceae.

227162. (Undetermined).

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 20, 1955.

Col. No. 379. Market, Addis Ababa. May 17, 1955. Said to be a vermifuge.

227163. *CLITORIA TERNATEA* L. Fabaceae. **Asian pigeonwings.**

From the Anglo-Egyptian Sudan. Seeds presented by the Sudan Gezira Board, Barakat. Received July 20, 1955.

227164 to 227188.

From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 21, 1955.

Collected July 14 to 16, 1955.

227164. *AUCUBA JAPONICA* var. *BOREALIS* Miyabe & Kudo Cornaceae. **Japanese aucuba.**

Col. No. 222. 'Hime-aoki'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Evergreen shrub; leaves ovate, prominent teeth on margins.

227165. *CHIOGENES JAPONICA* A. Gray Ericaceae. **Pearlberry.**

Col. No. 239. 'Harigane Kazura'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Low prostrate plant with pale greenish-white flowers.

227166. *DIOSCOREA JAPONICA* Thunb. Dioscoreaceae. **Yam.**

Col. No. 247. 'Yamano-imo'. Near Nuruyu, Fukushima. Elevation 800 meters. Vine with cordate leaves which have purple edges. Tuber is vertical.

227167. *EMPETRUM NIGRUM* var. *JAPONICUM* K. Koch Empetraceae.

Col. No. 238. 'Gankoran'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Low prostrate shrub; leaves small, linear.

227168. *EPIGAEA ASIATICA* Maxim. Ericaceae. **Asiatic trailing-arbutus.**

Col. No. 232. 'Iwa-nashi'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Prostrate evergreen shrub; leaves larger than *E. repens*; flowers pink, tubular, May.

227169. *GAULTHERIA ADENOTHRIX* (Miq.) Maxim. Ericaceae.

Col. No. 240. 'Iwahaze'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Small evergreen shrub; stems red; leaves ovate; flowers white; calyx red.

227164 to 227188—Continued

227170. GAULTHERIA MIQUELIANA Takeda **Miquel wintergreen.**

Col. No. 235. 'Shiratamanoki'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Plant low; leaves crowded; flowers and fruits white.

227171. HYDRANGEA SERRATA f. ACUMINATA (Sieb. & Zucc.) Wils.
Hydrangeaceae.

Col. No. 248. 'Sawa-gaku'. Near Nuruyu, Fukushima. Form with blue sterile rim florets.

227172 and 227173. ILEX CRENATA Thunb. Aquifoliaceae. **Japanese holly.**

227172. Col. No. 227. 'Inu-tsuge'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Form with unusually large leaves, suggesting intermediate between *I. crenata* and *I. sugerokii*.

227173. Col. No. 228. 'Inu-tsuge'. Elevation 1,600 meters. Typical form.

227174. ILEX LEUCOCLADA Makino **Holly.**

Col. No. 231. 'Himemochi'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters.

227175. ILEX RUGOSA Fr. Schmidt **Holly.**

Col. No. 230. 'Tsuru-tsuge'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. A prostrate species; branches long; leaves trailing, very coriaceous.

227176 and 227177. ILEX SUGEROKII Maxim. **Sugeroki holly.**

From subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters.

227176. Col. No. 229. 'Akamitsuge'. Species similar to *I. crenata* but of taller and compact habit; leaves larger; fruits red.

227177. Col. No. 233. 'Akamino-Inutsuge'. Form with unusually narrow leaves.

227178. LEDUM PALUSTRE L. Ericaceae. **Crystaltea ledum.**

Col. No. 237. 'Iso-tsutsuji'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Growing in open meadow. Low, evergreen shrub; leaves narrow with white tomentum beneath; flowers pure white. Received as var. nipponicum, an apparently unpublished name.

227179. LILIUM AURATUM Lindl. Liliaceae. **Goldband lily.**

Col. No. 246. 'Yama-yuri'. Near Nuruyu, Fukushima. Elevation 800 meters. Growing to 1 meter high; flowers large, white with yellow band on each petal and red-spotted glands.

227180. LILIUM LEICHTLINII var. MAXIMOWICZII (Regel) Baker

Col. No. 225. 'Ko-oniyuri'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Small seedling growing on sunny slope, similar in flower to *L. tigrinum*, but smaller, red.

227181. MENZIESIA PETANDRA Maxim. Ericaceae.

Col. No. 241. 'Ko-yorakutsutsuji'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Deciduous shrubs; flowers urceolate, reddish-brown.

227182. VACCINIUM OXYCOCCOS L. Vacciniaceae. **Small cranberry.**

Col. No. 236. 'Tsuru-kokemomo'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Prostrate woody plant; flowers pale-pink.

227164 to 227188—Continued

227183. RHODODENDRON ALBRECHTII Maxim. Ericaceae. **Albrecht azalea.**

Col. No. 226. 'Murasaki Yashio Tsutsuji'. Tsuchiya-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Typical form.

227184. RHODODENDRON JAPONICUM (Gray) Schneid. **Japanese azalea.**

Col. No. 249. 'Renge-tsutsuji'. Near Nuruyu, Fukushima Prefecture. Elevation 800 meters. Deciduous shrub; yellowish-orange flowers in May.

227185 and 227186. RHODODENDRON OBTUSUM var. KAEMPFERI (Planch.) Wils. **Torch azalea.**

227185. Col. No. 223. 'Yama-tsutsuji'. Teuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Typical form.

227186. Col. No. 250. 'Yama-tsutsuji'. Near Nuruyu, Fukushima Prefecture. Elevation 800 meters. Growing in open sunny meadow.

227187. RHODODENDRON SEMIBARBATUM Maxim. **Autumn leaf azalea.**

Col. No. 224. 'Barkatusutsuji'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Deciduous shrub; flowers to 25 mm. across, solitary, white with purple spots.

227188. SPIRAEA BETULIFOLIA Pallas. Rosaceae. **Birchleaf spirea.**

Col. No. 234. 'Maruba-shimatsuke'. Subalpine zone between Makugawa Onsen and Torido-duira. Elevation 1,600 meters. Plant low, dense; flowers white, in umbels, July.

227189 to 227192.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 22, 1955.

227189. CITRUS (hybrid). Rutaceae.

Col. No. 66. 'Hyuga Natsudaidai'. Okitsu. June 6, 1955. A summer orange, possibly between *C. junos* and an unknown. Single-embryo type; skin thin; flavor good; matures in May and June; yield low.

227190. ILEX SUGEROKII Maxim. Aquifoliaceae. **Sugeroki holly.**

Col. No. 245. 'Akoemi-tsuge'. Open subalpine meadow of Adsuma Mountains. July 15, 1955. Elevation 1,600 meters. Evergreen species similar to *I. crenata* tall with larger leaves than *I. crenata*; fruits red.

227191. PRUNUS NIPPONICA Mats. Amygdalaceae. **Takana flowering cherry.**

Col. No. 242. 'Mime-zakura'. Subalpine zone between Makugawa Onsen and Toriko-duira. July 15, 1955. Dwarf alpine species; bark shiny black; fruits large, black.

227192. VACCINIUM OVALIFOLIUM Smith. Vacciniaceae. **Ovalleaf whortleberry.**

Col. No. 243. 'Kuro-usugo'. Subalpine zone between Makugawa Onsen and Toriko-duira. July 15, 1955. Elevation 1,600 meters.

227193. PASPALUM sp. Poaceae.

From Brazil. Seed presented by Paulo Nogueira Neto, Sao Paulo. Received July 22, 1955.

227194 to 227201. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From the Union of South Africa. Seed presented by the Director, Elsenbury, Agricultural College, Stellenbosch, Cape Province. Received July 22, 1955.

227194 to 227201—Continued

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|------------------------|---------------------|
| 227194. 'Drome Daris'. | 227198. 'Kruger'. |
| 227195. 'Duiker'. | 227199. 'Penkop'. |
| 227196. 'Farratron'. | 227200. 'Unie 52'. |
| 227197. 'Koalisie'. | 227201. 'Spitskop'. |

227202 to 227231.

From Japan. Seed collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 25, 1955.

Collected June 8 to 11, 1955.

227202 to 227206. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

227202. Col. No. 70. 'Shin-yamato No. 2'. Shizuoka. Fruit with black rind; matures 110–120 days from planting.
227203. Col. No. 71. 'Asahi-yamato'. Shizuoka. Fruit with green rind, of medium size; matures in 120–140 days.
227204. Col. No. 76. 'Otume'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits round, small, forcing type; 25 days from flower to maturity; rind rich green, not striped.
227205. Col. No. 77. 'Shin-yamato'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits with black striped rind; medium size.
227206. Col. No. 78. 'Asahi-yamato'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits large but otherwise similar to 'Otume'. Considered best quality.

227207 to 227210. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.

Purchased at market in Shizuoka.

227207. Col. No. 72. 'Suyo'. Late variety, matures in 75 days. Originally a Chinese variety.
227208. Col. No. 73. 'Yomaki-asahi Aonaga'. Similar to No. 72; said to have originated in China.
227209. Col. No. 74. 'Sagami-hangiro'. Forcing type; fruits spiny, of medium length.
227210. Col. No. 75. 'Aibai'. A vigorous creeping type, planted in June and matures in August.

227211. ELAEAGNUS MULTIFLORA Thunb. Elaeagnaceae.

Col. No. 140. Shrub to 4 feet high, leaves silvery beneath. Fruit red, oblong with unusually pleasant flavor.

227212 to 227225. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

227212. Col. No. 68. 'Fuji No. 4'. Shizuoka. Matures in October. Vegetable type.
227213. Col. No. 69. 'Sode-furi'. Shizuoka. Matures in early October. Vegetable type.
227214. Col. No. 87. 'Oku-name'. Nagoya local garden. Matures in October. Vegetable type.
- 227215 to 227225. Collected at the Prefecture Office Farm, Kyoto.
227215. Col. No. 91. 'Norin No. 1'.
227216. Col. No. 92. 'Norin No. 2'.
227217. Col. No. 93. 'Norin No. 3'.
227218. Col. No. 94. 'Natsudaizu No. 1'.

227202 to 227231—Continued**227212 to 227225—Continued****227215 to 227225—Continued**

227219. Col. No. 95. 'Kotane'.
 227220. Col. No. 96. 'Shirodaizu'.
 227221. Col. No. 97. 'I. Yodaizu'.
 227222. Col. No. 98. 'Ippon Suzunari'.
 227223. Col. No. 99. 'Akazaya'.
 227224. Col. No. 100. 'Ya Hazi'.
 227225. Col. No. 101. 'Tama Nishiki'.

227226. LONICERA sp. Caprifoliaceae.

Col. No. 207. Hoshina, Nagano. Shrub to 6 feet high; leaves opposite, ovate, appearing in July; fruits, red.

227227. MAHONIA JAPONICA (Thunb.) DC. Berberidaceae. Japanese mahonia.

Col. No. 80. Higashima Botanical Garden, Nagoya.

227228. LYONIA OVALIFOLIA VAR. ELLIPTICA (Sieb. & Zucc.) Hand.-Mazz.

Ericaceae.

Thinleaf lyonia.

Col. No. 89. Growing wild in evergreen forest near Kyoto. Deciduous tree to 15 feet high; flowers white, in pendent racemes.

227229. RHODODENDRON FAURIAE Franch. Ericaceae.

Col. No. 224. 'Hakusan-shakunage'. Tall-growing, in open meadow; flowers white to pink with yellow blotch.

227230. SPINACIA OLERACEA L. Chenopodiaceae.

Spinach.

Col. No. 79. 'Jiromaru'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. A hybrid Japanese-European type; leaves medium flat.

227231. VACCINIUM HIRTUM Thunb. Vacciniaceae.

Col. No. 88. Collected at Kyoto growing in temple garden. Shrub upright, probably evergreen; fruits large, bright red, oblong.

227232 to 227258.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 26, 1955.

Collected in May and June, 1955 unless otherwise noted.

227232. BRASSICA OLERACEA VAR. CAPITATA L. Brassicaceae.

Cabbage.

Col. No. 15069. Market, Estavanat, Fars. Elevation 5,900 feet. Leafy type.

227233. BRASSICA RAPA L.

Turnip.

Col. No. 14853. Market Esfahan. Elevation 5,300 feet.

227234. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

Col. No. 14851. Esfahan. Fruits large, oblong, famous.

227235 and 227236. CUCUMIS SATIVUS L.

Cucumber.

227235. Col. No. 14866. 'Khlar'. Market, Esfahan. Elevation 5,300 feet.

Small-fruited, mild-flavored variety; cultivated on saline soils by irrigation.

227236. Col. No. 14867. 'Khlar'. Market, Esfahan. Elevation 5,300 feet.

Large-fruited variety; cultivated on slightly saline soil.

227237. CUCURBITA PEPO L. Cucurbitaceae.

Pumpkin.

Col. No. 14868. Market, Esfahan. Elevation 5,300 feet. Color greenish; cooked as a vegetable.

227232 to 227258—Continued**227238.** EPHEDRA sp. Gnetaceae.

Col. No. 15053. About six miles east of Sarvestan, Fars. Elevation 5,000 feet. Bushy, ornamental, to 4 feet high; foliage green to purple; berries red.

227239. HORDEUM BULBOSUM L. Poaceae.**Barley.**

Col. No. 14687. Eight miles northwest of Kazerun. Elevation 3,000 feet. Tall, caespitose annual; to 4 feet high.

227240 and 227241. HORDEUM VULGARE L.**Barley.****227240.** Col. No. 14915 'Jo'. Chadegan, Faridan District. Elevation 7,200 feet. Short spring type; irrigated.**227241.** Col. No. 14919. Fields of Esfahan. Elevation 5,300 feet. Irrigated type; stems strong, to 3 feet high; freely stooling.**227242.** HORDEUM sp.

Col. No. 14951. Badgka, about 8 miles northeast of Shiraz. Elevation 5,000 feet. Bushy annual, to 10 inches high.

227243. IMPERATA sp. Poaceae.

Col. No. 14579. Cultivated near Ahwaz. Apr. 25, 1955. Eaten by cattle.

227244. ONOBRYCHIS sp. Fabaceae.

Col. No. 14939. Badgka. About 8 miles northeast of Shiraz. Elevation 5,000 feet. Spreading perennial

227245. PANICUM MILIACEUM L. Poaceae.**Proso millet.**

Col. No. 14927. 'Arzan'. Market, Esfahan. Cultivated for bird seed and stock feed.

227246. PAPAVER SOMNIFERUM L. Papaveraceae.**Opium poppy.**

Col. No. 14862. 'Khash-Khash'. Market, Esfahan. Elevation 5,300 feet.

227247 and 227248. PHASEOLUS AUREUS Roxb. Fabaceae.**Mung bean.****227247.** Col. No. 14929. 'Mush'. Market, Esfahan. Elevation 5,300 feet.**227248.** Col. No. 15954. 'Mush'. Fasa, Fars. Elevation 4,700 feet.**227249.** PRUNUS AVIUM L. Amygdalaceae.**Sweet cherry.**

Col. No. 14878. 'Gilas'. Market, Esfahan. Elevation 5,300 feet. Soil slightly saline, alluvial.

227250 and 227251. RAPHANUS SATIVUS L. Brassicaceae.**Radish.****227250.** Col. No. 14854. Market, Esfahan. Elevation 5,300 feet.**227251.** Col. No. 14855. 'Turoptcheh'. Market, Esfahan. Elevation 5,300 feet. Small red type.**227252.** RHEUM OFFICINALE Bail. Polygonaceae.**Rhubarb.**

Col. No. 14873. 'Rivas'. Market, Esfahan. Elevation 5,300 feet. Poor quality type; locally cultivated.

227253. SESAMUM INDICUM L. Pedaliaceae.**Sesame.**

Col. No. 14876. 'Konjet'. Market, Esfahan. Elevation 5,300 feet.

227254. SOLANUM MELONGENA L. Solanaceae.**Eggplant.**

Col. No. 14858. 'Badenjan'. Market, Esfahan. Elevation 5,300 feet. Long purple-fruited type.

227255. TRIFOLIUM REPENS L. Fabaceae.**Whiteclover.**

Col. No. 14921. 'Shabdar'. Fields of Esfahan. Elevation 5,300 feet.

227256. TRIFOLIUM RESUPINATUM L.**Persian clover.**

Col. No. 14875. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet.

227232 to 227258—Continued

227257. *ASTRAGALUS CORRUGATUS* Bert. Fabaceae. **Milkvetch.**

Col. No. 14917. Fields of Esfahan. Elevation 5,300 feet. Procumbent annual, reported acceptable to sheep.

227258. *PISUM ELATIUS* Stev. Fabaceae. **Mediterranean pea.**

Col. No. 14918. Fields of Esfahan. Elevation 5,300 feet.

227259. *ZOYSIA JAPONICA* Steud. Poaceae. **Japanese lawngrass.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 25, 1955.

Col. No. 251. 'Shiba'. Near Nuruyu, Fukushima. July 16, 1955. Elevation 800 meters.

227260 to 227286.

From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 27, 1955.

Collected at Tengu-dake, Yatsugutake Range, Japan. July 20, 1955. Elevation 2,200 meters.

227260. *ABIES MARIESII* Masters Pinaceae. **Maries fir.**

Col. No. 258. Tree to 50 meters high; bark ashy-white with purplish tinge; branchlets dense dark-brown hairs; leaves linear, curved outwards; cones dark purple.

227261. *ABIES VEITCHII* Lindl. **Veitch fir.**

Col. No. 257. 'Shira Bisu'. Bark yellowish white; branchlets with pale-brown hairs; cones greenish.

227262 and 227263. *ACER TSCHONOSKII* Maxim. Aceraceae. **Maple.**

227262. Col. No. 265. 'Mine-kaede'. Small tree, leaf stalks red. Flowers greenish yellow, few, in racemes.

227263. Col. No. 266. Similar to No. 265, but leaves with white margins.

227264. *ACER CAUDATUM* var. *UKURUNDENSE* (Trautv. & Mey.) Rehder **Maple.**

Col. No. 267. 'Ogara-bana'. Small subalpine tree; flowers numerous, dioecious, in racemes.

227265. *ARCTOSTAPHYLOS ALPINA* var. *JAPONICA* Hultén. Ericaceae.

Col. No. 273. 'Urashima-tsutsuji'. Prostrate deciduous shrub; leaves spiny, turning deep red in fall; flowers appear before leaves, pale yellow, urceolate; fruits black.

227266. *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 277. Between Shibu Noyu and Chino. Elevation 1,500 meters. Tubers snakelike, horizontal.

227267. *EUONYMUS TRICARPA* Koidz. Celastraceae.

Col. No. 268. 'Murasaki-tsuribana'. Large deciduous shrub; flowers dark purple.

227268. *HYDRANGEA PANICULATA* Sieb. Hydrangeaceae. **Panicle hydrangea.**

Col. No. 275. Between Shibu Noyu and Chino. Elevation 1,500 meters. A good pink form.

227269. *ILEX RUGOSA* Fr. Schmidt. Aquifoliaceae. **Holly.**

Col. No. 260. Growing in conifer forest. Prostrate evergreen; fruit red.

227270. *LILIUM MEDEOLOIDES* Gray. Liliaceae. **Wheel lily.**

Col. No. 274. Subalpine meadow. Small species, usually with one or two red flowers.

227260 to 227286—Continued

- 227271.** LONICERA CHAMISSOI Bunge Caprifoliaceae. **Honeysuckle.**
Col. No. 254. 'Kuro Bana Hyotanboku'. Above Shibu Noyu and Chino. Elevation 1,900 meters. Alpine species; flowers deep purple; fruits red.
- 227272.** LONICERA sp.
Col. No. 256. Above Shibu Noyu and Chino. Elevation 1,900 meters. Dwarf, about 25 cm. high; leaves small.
- 227273.** PRUNUS NIPPONICA Mats. Amygdalaceae. **Takana flowering cherry.**
Col. No. 263. 'Mime-zakura'. Small shrubby tree; bark shiny black, flowers 3 to a bud; fruits black. Similar to *P. incisa*, but larger.
- 227274.** PYROLA ALPINA H. Andres. Pyrolaceae.
Col. No. 272. 'Kobano-ichiyakuso'. Small species with broad, oval leaves; flowers greenish white.
- 227275.** PYROLA RENIFOLIA Maxim. **Kidneyleaf pyrola.**
Col. No. 271. 'Jinyo-ichiyakuso'. Large species; leaves kidney shaped with pale-white markings on veins; flowers white.
- 227276.** PYROLA SECUNDA L. **Sidebells pyrola.**
Col. No. 270. 'Ko-ichiyakuso'. Small species; leaves ovate; flowers greenish white; petals almost tubular.
- 227277 and 227278** RHODODENDRON JAPONICUM (Gray) Schneid. Ericaceae. **Japanese azalea.**
227277. Col. No. 252. 'Renge-tsutsuji'. Above Shibu Noyu, Nagano Prefecture. Elevation 1,800 meters. Flowers brick red with orange blotch.
227278. Col. No. 253. 'Range-tsutsuji'. Above Shibu Noyu, Nagano Prefecture. Elevation 1,800 meters. Flowers bright red without blotch.
- 227279.** RHODODENDRON OBTUSUM var. KAEMPFERI (Planch.). Wils. **Torch azalea.**
Col. No. 276. Between Shibu Noyu and Chino. Elevation 1,500 meters.
- 227280.** RUBUS IKANOENSIS Levl. & Vant. Rosaceae.
Col. No. 262. 'Goyo-ichigo'. Plant prostrate; flowers white.
- 227281.** RUBUS PEDATUS Sm.
Col. No. 261. 'Kogane-ichigo'. Shrub prostrate; flowers white.
- 227282.** SORBUS SAMBUCIFOLIA (Cham. & Schl.) Roem. Malaceae. **Siberian mountain-ash.**
Col. No. 269. 'Takane-nanakamodo'. Alpine region. Small shrub; leaflets shiny, subcoriaceous; fruits reddish yellow when ripe.
- 227283.** VACCINIUM YATABEI Makino. Vacciniaceae. **Blueberry.**
Col. No. 259. 'Aojiko-sunoki'. Deciduous shrub about 30 cm. high; flowers in early June; berries dark red, flavorless.
- 227284 and 227285.** VIBURNUM URCEOLATUM Sieb. & Zucc. Caprifoliaceae. **Vaseflower viburnum.**
227284. Col. No. 255. 'Miyama Shibure'. Above Shibu Noyu, Nagano Prefecture. Prostrate species; buds pink; flowers white, in late July.
227285. Col. No. 264. Similar to No. 255, but with much larger leaves.
- 227286.** PRUNUS NIPPONICA Mats. Amygdalaceae. **Takana flowering cherry.**
Col. No. 263. Tengu-dake, Yatsugutake Range. Elevation 2,200 meters.

227287 to 227289.

From the Union of South Africa. Seeds presented by the National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received July 23, 1955.

227287 to 227289—Continued

227287. *EKEBERGIA CAPENSIS* Sparrm. Meliaceae.

Col. No. 247.

227288. *LACHNOPYLIS FLORIBUNDA* (Benth.) C. A. Smith Loganiaceae.

Col. No. 251.

227289. *VIRGILIA OROBOIDES* (Berg.) Salter Fabaceae.

Col. No. 258.

227290 to 227310.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 28, 1955.

Collected April and May, 1955

227290. *AEGILOPS TRIARISTATA* Willd. Poaceae. **Goatgrass.**

Col. No. 14600. Twenty-five miles northeast of Ahwaz. Small, desert annual.

227291. *AEGILOPS TRUNCIALIS* L. **Barb goatgrass.**

Col. No. 14604 Abe-e-Gonji, halfway between Ahwaz and Shushtar.

227292. *AEGILOPS TRIARISTATA* Willd. **Goatgrass.**

Col. No. 14628. Fifty miles north of Ahwaz. Low stooling annual, to 6 inches high.

227293. *ALLIUM CEPA* L. Liliaceae. **Onion.**

Col. No. 14666. Thirty miles north of Andimenshk, along the road to Khorramabad. Elevation 1,700 feet.

227294. *AVENA* sp. Poaceae.

Col. No. 14668. Twelve miles north of Andimenshk, along the road to Khorramabad. Elevation 800 feet. Small, drought-resistant spontaneous grass.

227295. *AVENA* sp.

Col. No. 14831. About 71 miles south of Sirjan, along the road to Bandar-Abbas. Elevation 5,300 feet. Annual to 2 feet high; early seeding.

227296. *BRASSICA RAPA* L. Brassicaceae. **Turnip.**

Col. No. 14567. 'Shelgham'. Market, Ahwaz. Cultivated locally.

227297. *BROMUS TECTORUM* L. Poaceae. **Cheatgrass.**

Col. No. 14676. About 25 miles south of Shiraz, along road to Firuzabad. Elevation 5,000 feet. Early-seeding spring annual.

227298 and 227299. *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**

227298. Col. No. 14699. Market, Kazerun. Elevation 3,000 feet.

227299. Col. No. 14781. Market, Kerman. Elevation 5,800 feet.

227300. *HORDEUM* sp. Poaceae.

Col. No. 14581. Irrigated fields near Ahwaz. Annual pasture grass.

227301. *HORDEUM SPONTANEUM* C. Koch. **Barley.**

Col. No. 14622. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Plant to 3 feet high.

227302. *HORDEUM* sp.

Col. No. 14636. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Annual with long head and heavy awns.

227303. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

Col. No. 14691. 'Bazrak'. Market, Kazerun. Elevation 3,000 feet. Grown locally for oil.

227290 to 227310—Continued

227304. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

Col. No. 14692. Market, Kazerun. Elevation 3,000 feet. Fruit small, round.

227305. *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

Col. No. 11750. Market, Shiraz. Elevation 5,200 feet. Cultivated locally, seed round, red flecked.

227306 and 227307. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**

227306. Col. No. 14565. Market, Ahwaz. Local, red type.

227307. Col. No. 14795. Market, Kerman. Elevation 5,800 feet.

227308. *VICIA ERVILLA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 14654. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Annual, stems to 2 feet long, in moist bottomland.

227309. *VICIA MONANTHA* Retz. **Bard vetch.**

Col. No. 14582. Irrigated fields near Ahwaz. Scandent annual.

227310. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 14552. Ahwaz.

227311 to 227313.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 1 1955.

Collected June 30, 1955.

227311. *CITRUS* sp. Rutaceae.

Col. No. 15149. 'Portajal'. Market, Shiraz. Elevation 5,200 feet. Sour orange.

227312. *CITRUS* sp.

Col. No. 15150. 'Narange'. Market, Shiraz. Elevation 5,200 feet. Sour orange used for juice.

227313. *CITRUS* sp.

Col. No. 15151. 'Limetosh'. Market, Shiraz. Elevation 5,200 feet. Small-fruited lemon.

227314. *PISTACIA MUTICA* Fisch. & Mey. Anacardiaceae.

Terebinth.

From Iran. Seeds obtained by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 1, 1955.

Collected by W. Bembower, south of Kerman. Tree said to be 500 years old. (Wild.)

227315 to 227319. *LOTUS CORNICULATUS* L. Fabaceae.

Birdsfoot trefoil.

From France. Seeds presented by the Station Centrale d'Amelioration des Plantes, Versailles (Seine-et-Oise). Received Aug. 2, 1955.

227315. No. 6-10. 'Haute-Vienne'. **227318.** No. 3445. 'Gers'.

227316. No. 26-30. 'Ile-de-France'. **227319.** No. 3647. 'Indra'.

227317. No. 3159. 'Loir-et-Cher'.

227320 to 227334. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds obtained by John L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 3, 1955.

From the Agricultural Experiment Station, Kotoni, Sapporo, Hokkaido.

227320 to 227334—Continued

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|---------------------------|-------------------------------|
| 227320. 'Daiichihienuki'. | 227328. 'Manchikin'. |
| 227321. 'Fukuzyu'. | 227329. 'Mansokin'. |
| 227322. 'Genpokin'. | 227330. 'Murasakibana No. 1'. |
| 227323. 'Kairyo No. 1'. | 227331. 'Murasakibana No. 4'. |
| 227324. 'Kingen No. 1'. | 227332. 'Oba-tsurumame'. |
| 227325. 'Kingen No. 2'. | 227333. 'Ohozyu'. |
| 227326. 'Kokuiku No. 44'. | 227334. 'Syokino No. 1'. |
| 227327. 'Kokuso'. | |

227335. AMORPHOPHALLUS ONCOPHYLLUS Prain. Araceae.

From Indonesia. Tubers and seeds presented by International Cooperation Administration, General Agricultural Research Station, Bogor. Received Aug. 3, 1955.

227336 and 227337. GOSSYPIUM (hybrids). Malvaceae. Cotton.

From Guam. Seeds presented by the Director of Agriculture, Agara. Received Aug. 4, 1955.

227336. C. B. 3003. Collected on the Island of Guam.

227337. C. B. 3004. Collected on the Island of Saipan.

227338 to 227400.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 4, 1955.

Collected April, May, and June, 1955.

227338. HETERANTHELIUM PILIFERUM (Russ.) Jaub. & Spach. Poaceae

Col. No. 14941. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Very short-tufted annual.

227339. AEGILOPS OVATA L. Poaceae. Goatgrass.

Col. No. 14944. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual; eaten by sheep.

227340. AEGILOPS HELDRICHII (Boiss.) Holzm. Goatgrass.

Col. No. 14945. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual; culms erect to 8 inches high.

227341. HETERANTHELIUM PILIFERUM (Russ.) Jaub. & Spach. Poaceae.

Col. No. 14946. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low spreading, bushy annual, to 6 inches high.

227342. AEGILOPS CRASSA Boiss. Goatgrass.

Col. No. 14948. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Leafy bunch perennial.

227343. AGROPYRON sp. Poaceae.

Col. No. 14883. Two miles south of Esfahan on open desert. Elevation 5,500 feet. Xerophytic annual; growing with less than 1 inch of spring rain..

227344 and 227345. AGROPYRON BUONAPARTIS (Spreng.) Dur. & Schinz Wheatgrass.

227344. Col. No. 14940. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low, spreading annual.

227345. Col. No. 15003. Fifteen miles east of Sa'adatabad, Fars. Elevation 6,000 feet. Annual herb.

227346. ALLIUM CEPA L. Liliaceae. Onion.

Col. No. 14857. 'Piaz'. Market, Esfahan. Elevation 5,300 feet.

227338 to 227400—Continued

227347. ALLIUM PORRUM L. **Leek.**

Col. No. 14856. 'Tareh'. Market, Esfahan. Elevation 5,300 feet.

227348. ANDROPOGON sp. Poaceae.

Col. No. 14999. Forty-six miles west of Abadeh in Goshkyee country. Elevation 7,800 feet. Perennial.

227349. ANDROPOGON sp.

Col. No. 15051. Eight miles west of Shiraz, Fars. Elevation 6,000 feet. Cespiteous perennial to 12 inches high.

227350. ASTRAGALUS sp. Fabaceae.

Col. No. 14947. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low, thorny, bushy perennial; rather ornamental.

227351. ASTRAGALUS HAMOSUS L.

Col. No. 14950. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Prostrate desert annual on newly irrigated land. Eaten by cattle.

227352. ASTRAGALUS sp.

Col. No. 15033-A. About twenty miles east of Kazerun, Fars. Elevation 3,500 feet. Annual herb growing on dry slope.

227353. AVENA sp. Poaceae.

Col. No. 14920. Fields of Esfahan. Elevation 5,300 feet.

227354. BRASSICA RAPA L. Brassicaceae.

Turnip.

Col. No. 14852. Market, Esfahan. Elevation 5,300 feet.

227355. BROMUS DANTHONIAE Trin. Poaceae.

Brome.

Col. No. 14938. Badgka 8 miles northeast of Shiraz. Elevation 5,000 feet. Spreading but erect annual, to 8 inches high; eaten by sheep.

227356. BROMUS TECTORUM L.

Cheatgrass.

Col. No. 14949. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Annual, to 10 inches high.

227357. BROMUS TOMENTELLUS Boiss.

Brome.

Col. No. 15004. Thirteen miles east of Sa'adatabad, Fars. Elevation 6,000 feet. Xerophytic perennial with leafy crown to 6 inches high. Regarded as good feed for all animals.

227358. CANNABIS SATIVA L. Moraceae.

Hemp.

Col. No. 14934. 'Shadaneh'. Market, Esfahan. Elevation 5,300 feet.

227359. CICER ARIETINUM L. Fabaceae.

Chickpea.

From Esfahan. No field note.

227360. CICHORIUM ENDIVIA L. Cichoriaceae.

Endive.

Col. No. 14872. Market, Esfahan. Elevation 5,300 feet. Both leaves and roots used medicinally.

227361. CUCURBITA MAXIMA Duchesne Cucurbitaceae.

Squash.

Col. No. 14869. Market, Esfahan. Elevation 5,300 feet.

227362. FESTUCA sp. Poaceae.

Col. No. 15037. Mountain pass above Dasht Arjan, Fars. Elevation 7,000 feet. Short-leaved perennial, browsed by sheep and goats.

227363. HIPPOCREPIS UNISILIQUOSA L. Fabaceae.

Col. No. 14615. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Delicate annual herb.

227338 to 227400—Continued

- 227364.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
Col. No. 15065. Market, Estavanat, Fars. Elevation 5,900 feet. Cultivated locally by irrigation.
- 227365.** *IPOMOEA NIL* (L.) Roth. Convolvulaceae.
Col. No. 14712. 'Nulufa'. Market, Kazerun. Elevation 3,000 feet. Seeds used in local medicine.
- 227366.** *LACTUCA SATIVA* L. Cichoriaceae. **Garden lettuce.**
Col. No. 14861. 'Kahoo'. Market, Esfahan. Elevation 5,300 feet. Leafy type; flood irrigated.
- 227367 to 227369.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinners Fabaceae. **California burclover.**
- 227367.** Col. No. 14660. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet.
- 227368.** Col. No. 14663. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet. Erect colonial annual.
- 227369.** Col. No. 14683. Cultivated field near Kazerun. Elevation 3,000 feet. Annual.
- 227370.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
Col. No. 14928. 'Yunje'. Market, Esfahan. Elevation 5,300 feet.
- 227371.** *MEDICAGO* sp.
Col. No. 14632. Fifty miles north of Ahwaz along road to Dezful. A diffuse, erect, drought-inhibited annual; to 5 inches high.
- 227372.** *MEDICAGO ARABICA* (L.) All. **Spotted burclover.**
Col. No. 14731. Twelve miles east of Kazerun. Elevation 3,800 feet. Small erect colonial annual.
- 227373.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**
Col. No. 14912. 'Medifuruhi'. Chadegan, Faridan District. Elevation 7,200 feet.
- 227374.** *ONOBRYCHIS* sp.
Col. No. 14607. Abe-e-Gonji, halfway between Ahwaz and Shushtar. Small decumbent annual.
- 227375.** *ONOBRYCHIS* sp.
Col. No. 14619. Fifteen to 20 miles south of Shushtar. Elevation 500 feet. Drought-inhibited annual.
- 227376.** *ONOBRYCHIS* sp.
Col. No. 14649. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant erect but spreading.
- 227377.** *ONOBRYCHIS* sp.
Col. No. 14884. Two miles south of Esfahan. Small procumbent herb.
- 227378.** *PHALARIS MINOR* Retz. Poaceae. **Littleseed canarygrass.**
Col. No. 14887. Esfahan. Elevation 5,300 feet. Tall, leafy grass.
- 227379.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
Col. No. 14930. 'Lubia'. Market, Esfahan. Elevation 5,300 feet. A stringless stringbean cultivated on somewhat saline alluvial soils; good quality.
- 227380.** *PLANTAGO* sp. Plantaginaceae.
Col. No. 14587. Irrigated fields near Ahwaz.

227338 to 227400—Continued

227381. *POA* sp. Poaceae.

Col. No. 14923. Fields of Esfahan. Elevation 5,300 feet. Hydrophytic grass along irrigation ditch.

227382. *RAPHANUS SATIVUS* L. Brassicaceae.

Radish.

Col. No. 15060. 'Torop'. Market, Estavanat, Fars. Elevation 5,900 feet. Locally cultivated.

227383. *SPINACIA OLERACEA* L. Chenopodiaceae.

Spinach.

Col. No. 14860. 'Espinacia'. Market, Esfahan. Elevation 5,300 feet.

227384. *STIPA* sp. Poaceae.

Col. No. 14983. Seventeen miles northwest of Abadeh, Fars. Elevation 7,400 feet. Low turf-forming xerophytic perennial; good desert forage.

227385. *STIPA* sp.

Col. No. 15007. Twenty-two miles south of Dehbid, along road from Abadeh to Shiraz. Elevation 7,000 feet. Widespread, xerophytic perennial; much relished by cattle.

227386 to 227388. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

227386. Col. No. 14596. Irrigated fields near Ahwaz. Diffuse annual.

227387. Col. No. 14914. Chadegan, Faridan District. Elevation 7,200 feet. Erect annual to 2 feet high.

227388. Col. No. 14925. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet.

227389. *TRIFOLIUM* sp.

Col. No. 14598. Irrigated fields near Ahwaz. Small erect annual.

227390. *TRIFOLIUM ANGUSTIFOLIUM* L.

Clover.

Col. No. 14637. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Erect, single-stemmed annual to 8 inches high.

227391. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

Col. No. 14913. Chadegan, Faridan District. Elevation 7,200 feet. Irrigated perennial; for pasture and hay.

227392. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.

Fenugreek.

Col. No. 14874. 'Shanbileh'. Market, Esfahan. Elevation 5,300 feet. Used as a table green and to feed cattle.

227393. *TRIGONELLA MONSPELIACA* L.

Col. No. 14657. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Low spreading annual; browsed.

227394. *TRIGONELLA ANGUINA* Del.

Col. No. 14671. Between Ahwaz and Abadan. Prostrate annual browsed by livestock.

227395. *TRIGONELLA POLYCRATA* L.

Col. No. 14937. Badgka, about 8 miles northeast of Shiraz. Elevation 5,000 feet. Small, erect, and spreading annual; browsed by sheep.

227396 and 227397. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

227396. Col. No. 14931. 'Lubia'. Market, Esfahan. Elevation 5,300 feet.

227397. Col. No. 15055. 'Lubia'. Market, Fasa, Fars. Elevation 4,700 feet.

227398. *ZEA MAYS* L. Poaceae.

Corn.

Col. No. 14932. 'Zorat'. Market, Esfahan. Elevation 5,300 feet.

227338 to 227400—Continued**227399.** (Undetermined.) Fabaceae.

Col. No. 14804. Khor'. Silt flats around Kerman. Elevation 5,800 feet. Short-lived perennial; fed dry to sheep and goats.

227400. (Undetermined.) Menthaceae.

Col. No. 14863. Market, Esfahan. Elevation 5,300 feet. Cultivated by irrigation.

227401 and 227402. PRUNUS PERSICA (L.) Batsch Amygdalaceae.**Peach.**

From the Union of South Africa. Plants presented by Herholdt's Nurseries, Johannesburg, Transvaal. Received Aug. 5, 1955.

227401. 'Herholdt's Unicum' (15).**227402.** 'Kakamas'.**227403.** CITRUS HYSTRIX DC. Rutaceae.**Cabuyas.**

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Aug. 5, 1955.

227404. AECHMEA MARIAE-REGINAE Wendl. Bromeliaceae.

From Costa Rica. Seeds presented by C. H. Lankester, Cartago. Received Aug. 9, 1955.

227405. STYLOSANTHES FRUTICOSA (Retz.) Mohlenb. Fabaceae.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 5, 1955.

Originally from Tanganyika, British East Africa.

227406 to 227417.

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 8, 1955.

Plants collected July 30 and 31, 1955, unless otherwise noted.

227406. ABIES SACHALINENSIS (Schmidt) Masters Pinaceae.**Sakhalin fir.**

Col. No. 298 'Todo-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

227407. BETULA PLATPHYLLA Sukaczew. Betulaceae.**Asian white birch.**

Col. No. 292. 'Shira-kaba'. Foot of Mount Iwo, Kushiro Province, Hokkaido.

227408. HYDRANGEA PANICULATA var. INTERMEDIA H. Bois ex Nakai Hydrangeaceae.**Panicle hydrangea.**

Col. No. 289. 'Agisai-nori-utsugi'. Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters.

227409. ILEX RUGOSA Fr. Schmidt Aquifoliaceae.**Holly.**

Col. No. 295. 'Tauru-tsuge'. Kawayu, Kushiro Province, Hokkaido.

227410. LEDUM PALUSTRE var. YESOENSE Nakai Ericaceae.**Yesonense.**

Col. No. 291. 'Yezu-isu-tsutsuji'. Foot of Mount Iwo, Kushiro Province, Hokkaido. Variety characterized by brownish and white hairs on underside of leaves.

227411. PICEA GLEHNII (Schmidt) Masters Pinaceae.**Sakhalin spruce.**

Col. No. 297. 'Aka-yedzu-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

227406 to 227417—Continued

227412. *PICEA JEZOENSIS* (Sieb. & Zucc.) Carr. **Yeddo Spruce.**

Col. No. 296. 'Yedzu-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

227413. *PINUS PUMILA* Regel Pinaceae. **Japanese stone pine.**

Col. No. 293. 'Hai-matsu'. At foot of Mount Iwo, Kushiro Province, Hokkaido. Shrubby species, 5-needle type.

227414. *RUBUS PSEUDO-JAPONICUS* Koidz. Rosaceae.

Col. No. 299. 'Hime-goyo-ichingo'. On mountain near Lake Mashu, Kushiro Province. A prostrate species, 5-leaved; fruits small, very sweet, ripening in late July.

227415. *SPIRAEA BETULIFOLIA* var. *AEMILIANA* Koidz. Rosaceae. **Birchleaf spirea.**

Col. No. 288. 'Yezo-maruba Shimotsuke'. Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters. Small shrub; leaves small, ovate to round-cuneate; flowers white.

227416. *CLINTONIA UDENSIS* Trautv. & Mey. Convallariaceae.

Col. No. 290. 'Tsubame-omoto'. In dense shade, Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters. Leaves basal; flowers white, early June; fruits blue.

227417. *EMPETRUM NIGRUM* L. Empetraceae. **Black crowberry.**

Col. No. 294. 'Gankoran'. Foot of Mount Iwo, Kushiro Province, Hokkaido.

227418. *MELILOTUS MESSANENSIS* (L.) All. Fabaceae. **Sweetclover.**

From Portugal. Seeds presented by the Direcção Geral, dos Servicos Agriculas, Lisbon. Received Aug. 8, 1955.

227419 to 227422.

From France. Budwood presented by Llugany Jacque & Fils, Elne. Received Aug. 8, 1955.

227419 and 227420. *PRUNUS ARMENIACA* L. Amygdalaceae. **Apricot.**

227419. 'Bulida'.

227420. 'Tardif'.

227421. *PRUNUS PERSICA* (L.) Batsch. **Peach.**

'Madeleine Pouijet'.

227422. *PYRUS COMMUNIS* L. Malaceae. **Pear.**

'Docteur Guyot'.

227423 to 227433.

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 9, 1955.

Collected July 29 and 30, 1955.

227423. *ACHILLEA PULCHRA* Koidz. Asteraceae.

Col. No. 281. 'Hingashi Mokota'. Along seacoast, Hamakoshi, Kitami, Hokkaido. Deep-pink flowers. (Plants.)

227424. *HYPERICUM ASCYRON* L. Hypericiaceae.

Col. No. 279. 'Tomoe-so'. Masu-ura, Abashiri City, Kitami Province, Hokkaido. (Plants.)

227423 to 227433—Continued

227425. *LILIUM DAURICUM* Ker. Liliaceae. **Candlestick lily.**

Col. No. 283. 'Yezo-sukashiyuri'. Hamakoshi-mizu, Kitami Province. In sand dunes. (Bulbs.)

227426. *LILIUM LEICHTLINII* var. *MAXIMOWICZII* (Regel) Baker **Lily.**

Col. No. 284. 'Ko-oni-yuri'. Abashiri City, Kitami, Hokkaido. Plants to 4 feet high, with large orange pendent flowers. (Bulblets.)

227427. *LILIUM MEDEOLOIDES* var. *KURILENSE* Nakai **Wheel lily.**

Col. No. 278. 'Hosoba-kurumauri'. Masu-ura, Abashiri City, Kitami Province, Hokkaido. Form with narrow leaves and flower segments. (Bulbs.)

227428. *MALUS BACCATA* (L.) Moench. Malaceae. **Siberian crabapple.**

Col. No. 282. 'Edzono koringo'. Forest of Aokigahara. Typical form, growing in dense shade of mixed trees. (Cuttings.)

227429. *PRUNUS MAXIMOWICZII* Rupr. Amygdalaceae. **Miyama cherry.**

Col. No. 286. 'Shiro-zakura'. Onneyu, near Rubeshibe, Kitami Province. Tree to 25 feet high. Flowers white, small, in corymbs. (Seeds.)

227430. *RHODODENDRON DAURICUM* L. Ericaceae.

Col. No. 285. 'Yezo-murasaki-tsutsuji'. Onneyu, near Rubeshibe, Kitami Province. Typical form. (Plants.)

227431 and 227432. *ROSA RUGOSA* Thunb. Rosaceae. **Rose.**

Col. No. 280. 'Hamanasu'. Along ocean front, Hamakoshi, Kitami, Hokkaido.

227431. Seeds.

227432. Plants.

227433. *SCHISANDRA CHINENSIS* (Turcz.) Baill. Magnoliaceae. **Chinese magnoliavine.**

Col. No. 287. 'Cho-sen-gomishi'. Onneyu, near Rubeshibe, Kitami Province. Creeping vine; flowers white; fruits red. Medicinal use. (Plants.)

227434 to 227474.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 9, 1955.

Collected in June, 1955.

227434. *AEGILOPS CRASSA* Boiss. Poaceae. **Goatgrass.**

Col. No. 14952. Takht-e Jamshid. Elevation 5,500 feet. Stems leafy, to 12 inches high.

227435. *AEGILOPS TRIARISTATA* Willd. **Goatgrass**

Col. No. 14953. Takht-e Jamshid. Elevation 5,500 feet. Annual, stooling.

227436. *AEGILOPS OVATA* L.

Col. No. 15016. Thirteen miles west of Shiraz. Elevation 6,000 feet. Common annual.

227437. *AEGILOPS TRIUNCIALIS* L.

Col. No. 15038. Mountain pass above Dasht Arjan, Fars. Elevation 7,000 feet. Slender annual, 1.5 feet high.

227434 to 227474—Continued

- 227438.** *ALLIUM CEPA* L. Liliaceae. **Onion.**
Col. No. 15064. 'Pios'. Market, Estavanat, Fars. Elevation 6,900 feet. Strong-flavored; common in the state of Fars.
- 227439.** *ASTRAGALUS* sp. Fabaceae.
Col. No. 14956. Fields of Takht-e Jamshid. Elevation 5,500 feet. Annual leafy herb.
- 227440.** *ASTRAGALUS HAMOSUS* L. **Milkvetch.**
Col. No. 14958. 'Kelemaleck'. Fields of Takht-e Jamshid. Elevation 5,500 feet. Small, spreading annual; used as a physic.
- 227441.** *ASTRAGALUS CORRUGATUS* Bert. **Milkvetch.**
Col. No. 15011. Fields of Takht-e Jamshid. Elevation 5,000 feet. Prostrate, annual herb; eaten by sheep.
- 227442.** *ASTRAGALUS* sp.
Col. No. 15081. Nine miles west of Shiraz. Elevation 6,000 feet. Annual lotuslike herb.
- 227443.** *ASTRAGALUS* sp.
Col. No. 15083. Fifteen miles west of Shiraz. Elevation 6,000 feet. An erect unarmed perennial; stems rather succulent; browsed by animals.
- 227444.** *ASTRAGALUS* sp.
Col. No. 15108. Kowkun Valley, Fars. Elevation 7,500 feet. Annual herb; browsed by animals.
- 227445.** *AVENA* sp. Poaceae.
Col. No. 15023. Dasht Arjan, Fars. Elevation 6,600 feet.
- 227446.** *FESTUCA ARUNDINACEA* Schreb. Poaceae. **Tall fescue.**
Col. No. 15089. Homaijan near Ardakan, Fars. Elevation 7,000 feet. Rank, rather tough-leaved perennial grass.
- 227447.** *CICORIUM ENDIVIA* L. Cichoriaceae. **Endive.**
Col. No. 15068. 'Kasni'. Market, Estavanat, Fars. Elevation 5,900 feet.
- 227448 and 227449.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
227448. Col. No. 14955. 'Jo'. Fields of Takht-e Jamshid. Elevation 5,500 feet. Two-rowed; to 20 inches high.
227449. Col. No. 14961. 'Jo'. Fields near Sa-adatabad, Shiraz. Elevation 6,000 feet. Short, two-rowed.
- 227450.** *LATHYRUS SATIVUS* L. Fabaceae. **Flatpod peavine.**
Col. No. 14974. 'Gavdaneh'. Bavanat Valley, Fars. Elevation 7,000 feet. Foliage dried for hay; seeds fed to cattle in winter.
- 227451 and 227452.** *MEDICAGO LUPULINA* L. Fabaceae. **Black medic.**
227451. Col. No. 15041. Dasht Arjan, Fars. Elevation 6,600 feet.
227452. Col. No. 15123. Kowkun Valley, Fars. Elevation 7,500 feet.
- 227453.** *ORYZOPSIS* sp. Poaceae.
Col. No. 14989. Thirteen to 16 miles northwest of Abadeh, Fars. Elevation 7,400 feet. Black-seeded perennial grass; well liked by animals.
- 227454.** *ORYZOPSIS* sp.
Col. No. 14997. Seventeen miles southwest of Abadeh, Fars. Elevation 8,500 feet. Perennial grass, to 3 feet high; good xerophytic forage.
- 227455.** *ORYZOPSIS* sp.
Col. No. 15057. Estavanat, Fars. Elevation 7,000 feet. Perennial grass to 4 feet high.

227434 to 227474—Continued

227456. *ORYZOPSIS* sp.

Col. No. 15134. Between Ardakan and Komehr, Fars. Elevation 9,000 feet. Xerophytic perennial grass.

227457. *PISUM SATIVUM* L. Fabaceae.

Garden pea.

Col. No. 15114. 'Sangakh'. Kowkun Valley, Fars. Elevation 7,500 feet.

227458. *PLANTAGO* sp. Plantaginaceae.

Col. No. 15088. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Perennial herb.

227459 and 227460. *POA BULBOSA* L. Poaceae.

Bulbous bluegrass.

227459. Col. No. 15005. Sar Paniran Valley, Fars. Elevation 6,500 feet. Perennial tufted grass.

227460. Col. No. 15133. Komehr Valley, Fars. Elevation 7,500 feet. Leafy, tufted perennial.

227461. *POA PRATENSIS* L.

Kentucky bluegrass.

Col. No. 14967. Eleven miles east of Dehbid, Fars. Elevation 8,000 feet. Perennial forming a low turf.

227462. *POA* sp.

Col. No. 14978. Limestone slope by Bavanat Valley, Fars. Elevation 7,500 feet. Perennial herb.

227463. *POA PRATENSIS* L.

Kentucky bluegrass.

Col. No. 15026. Dasht Arjan, Fars. Elevation 6,600 feet. Perennial; heavily grazed.

227464. *PRUNUS* sp. Amygdalaceae.

Col. No. 15077. 'Arjan'. Five miles east of Sarvestan, Fars. Elevation 6,000 feet. Upright shrub.

227465. *STIPA* sp. Poaceae.

Col. No. 15014. Thirteen miles west of Shiraz. Elevation 6,000 feet. Perennial, grows to 4 feet high.

227466. *STIPA* sp.

Col. No. 15015. Thirteen miles west of Shiraz. Elevation 6,000 feet. Xerophytic perennial forming leafy tufts; browsed by sheep.

227467. *STIPA* sp.

Col. No. 15024. Dasht Arjan, Fars. Elevation 6,600 feet. Tufted perennial, on limestone cliff.

227468. *STIPA* sp.

Col. No. 15058. Estavanat, Fars. Xerophytic perennial; browsed by burros.

227469. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

Col. No. 14975. Bavanat Valley, Fars. Elevation 7,500 feet.

227470. *TRITICUM* sp. Poaceae.

Col. No. 14954. Fields of Takht-e Jamshid. Elevation 5,500 feet.

227471. *VICIA ERVILLA* (L.) Willd. Fabaceae.

Bitter vetch.

Col. No. 15118. 'Pilehmushi'. Kowkun Valley, Fars. Elevation 7,500 feet.

227472. *VICIA SATIVA* L.

Common vetch.

Col. No. 15012. Ten miles west of Shiraz. Elevation 6,000 feet.

227473. *VICIA ANGSTIFOLIA* var. *SEGETALIS* (Thuill.) Koch

Vetch.

Col. No. 15040. Dasht Arjan, Fars. Elevation 6,600 feet. Annual spreading herb.

227434 to 227474—Continued

227474. *LATHYRUS INCONSPICUUS* L. Fabaceae. **Peavine.**

Col. No. 15113. Kowkun Valley, Fars. Elevation 7,500 feet. Erect annual, growing to 10 inches high.

227475 to 227479.

From Costa Rica. Seeds presented by Gordon B. Killinger, Servicio Tecnico Inter-Americano de Cooperacion Agricola, San Jose. Received Aug. 10, 1955.

227475. *CALOPOGONIUM MUCUNOIDES* Desv. Fabaceae.

227476. *DESMODIUM BARBATUM* (L.) Benth. Fabaceae. **Tickclover.**

227477. *DESMODIUM OVALIFOLIUM* Guill. & Perr. **Tickclover.**

227478. *STIZOLOBIUM PRURIENS* (Stickm.) Medic. Fabaceae. **Cowage velvetbean.**

227479. *STIZOLOBIUM* sp.

227480 to 227490.

From Japan. Plants and seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 10, 1955.

227480. *ACTINIDIA KOLOMIKTA* (Max.) Rupr. Dilleniaceae. **Kolomikta**

Col. No. 301. Akan-ko, Kuchiro Province. Scandant vine, frequently with red or white variegated leaves. (Plants.)

227481. *CHAMAEDAPHNE CALYCVLATA* (L.) Moench Eriaceae.

Col. No. 307. Near Nemuro. Subshrub with narrow obovate leaves. (Plants.)

227482. *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 300. Akan-ko, Kuchiro Province, growing in mixed conifer-deciduous forest. Very small vine; leaves somewhat lanceolate, cordate; tubers small, either round or elongate. (Plants.)

227483. *HOSTA RECTIFOLIA* Nakai Liliaceae.

Col. No. 310. 'Tachigiboshi'. Near Nemuro. Flowers uniformly purple, on scape to 30 inches high. (Plants.)

227484. *ILEX RUGOSA* Fr. SCHMIDT. Aquifoliaceae. **Holly.**

Col. No. 306. Near Nemuro. Prostrate species with narrow ovate leaves. (Plants.)

227485. *IRIS KAEMPFERI* Sieb. Iridaceae. **Japanese iris.**

Col. No. 309. 'Nohanashobi'. Near Nemuro. Flowers dark purple (Plants.)

227486. *PINUS PUMILA* Regel. Pinaceae. **Japanese stone pine.**

Col. No. 303. Forestry Bureau Nursery, Akan, Kushiro Province, Hokkaido. Shrubby 5-needle species. (Plants.)

227487. *RHODODENDRON PARVIFOLIUM* Adams Ericaceae. **Tundra rhododendron.**

Col. No. 304. Sphagnum bog near Nemuro. A low-growing straggly species with small lanceolate to obovate leaves. (Plants.)

227488. *SASA AMPHITRICHA* Koidz. Poaceae. **Bamboo.**

Col. No. 308. 'Ainu-miako Sasa'. Near Nemuro. Characterized by pilose upper surface of leaves. (Plants.)

227489. *SPIRAEA BETULIFOLIA* var. *AEMILIANA* Koidz. Rosaceae. **Birchleaf spirea.**

Col. No. 305. Sphagnum bog near Nemuro. (Plants.)

227490. *SAMBUCUS BUERGERIANA* Blume Caprifoliaceae. **Elder.**

Col. No. 302. Along roadside at Akan, Kushiro Province, Hokkaido. Shrub to 6 feet high; fruits bright red in corymb, August. (Seeds.)

227491. (Undetermined.) Poaceae.

From Japan. Plants presented by Dr. H. Kondo, Institute of Breeding Research, Tokyo Agricultural University, Tokyo. Received Aug. 11, 1955. Dwarf bamboo.

227492 to 227494.

From Costa Rica. Rhizomes collected by B. G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 15, 1955.

227492. *DIOSCOREA CONVOLVULACEA* Cham. & Schlecht. Dioscoreaceae. **Yam.**

Col. No. 923. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1955.

227493. *DIOSCOREA* sp.

Col. No. 921. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1925.

227494. *DIOSCOREA CYANISTICTA* Donn.—Sm. **Yam.**

Col. No. 922. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1955.

227495 to 227497.

From Venezuela. Seeds presented by the Ministry of Agriculture, Caracas. Received Aug. 15, 1955.

227495. *ORMOSIA AVILENSIS* Pittier. Fabaceae.

227496. *ORMOSIA MACROPHYLLA* Benth.

227497. *ORMOSIA TOVARENSIS* Pittier.

227498 to 227521.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 16, 1955.

Collected April, May and June, 1955.

227498. *ALLIUM* sp. Liliaceae.

Col. No. 15067. 'Tarey'. Market, Estavanat, Fars. Elevation 5,900 feet. Wild and cultivated.

227499. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

Col. No. 15027. Dasht Arjan, Fars. Elevation 6,600 feet. Aquatic or hydrophytic perennial; eaten sparingly by cattle.

227500. *MELICA ELIGULATA* Boiss. Poaceae.

Col. No. 14977. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Cespitose, hairy perennial about 1 foot high.

227501. *BROMUS TOMENTELLUS* Boiss. Poaceae. **Brome.**

Col. No. 15017. About 13 miles west of Shiraz. Elevation 6,000 feet. Perennial about 2 feet high forming patches of turf; leaves to 6 inches long; much browsed by sheep and cattle.

227502. *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

Col. No. 14864. 'Kofsheh'. Market, Esfahan. Elevation 5,300 feet. Locally cultivated; seeds eaten or used for oil.

227503. *CEPHALARIA* sp. Dipsacaceae.

Col. No. 15136. 'Kangar'. Mountain pass 27 miles northwest of Shiraz. Elevation 7,500 feet. Coarse, spiny, annual herb; widely grown for hay.

227504. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

Col. No. 15063. Market, Estavanat, Fars. Elevation 6,900 feet. Fruits slender, about 1 foot long.

227498 to 227521—Continued

227505. *FESTUCA ARUNDINACEA* Schreb. Poaceae. **Tall fescue.**

Col. No. 15035. Seven miles west of Dasht Arjan, Fars. Elevation 6,000 feet. Perennial.

227506. *FESTUCA* sp.

Col. No. 15127. Komehr Valley, Fars. Elevation 7,500 feet. Fine, bluish-leaved perennial; dry, rocky ground.

227507. *FESTUCA* sp.

Col. No. 15129. Komehr Valley, Fars. Rocky field. Elevation 7,500 feet. Slender-leaved perennial; culms up to 2 feet long.

227508. *GLADIOLUS SEGETUM* Ker. Iridaceae. **Saunders gladiolus.**

Col. No. 14593. Irrigated fields near Ahwaz. Browsed by cattle.

227509 and **227510.** *HORDEUM BULBOSUM* L. Poaceae. **Barley.**

227509. Col. No. 14959. Near Sa-adatabad along road from Shiraz to Abadeh. Elevation 6,000 feet. Tall perennial grass on rocky slope.

227510. Col. No. 14960. Near Sa-adatabad, Shiraz Province. Elevation 6,000 feet. Annual weed in barley field.

227511. *LATHYRUS CICERA* L. Fabaceae. **Flatpod peavine.**

Col. No. 15086. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

227512. *LOTUS CORNICULATUS* L. Fabaceae. **Birdsfoot trefoil.**

Col. No. 15125. Kowkun Valley, Fars. Elevation 7,500 feet. Eaten by animals.

227513. *POA* sp. Poaceae.

Col. No. 15132. Above Komehr Valley, Fars. Elevation 8,500 feet. Annual grass; no forage value.

227514. *PRUNUS CERASUS* L. Amygdalaceae. **Sour cherry.**

Col. No. 14877. 'Albani'. Market, Esfahan. Elevation 5,300 feet. Cultivated.

227515. *PRUNUS* sp.

Col. No. 15095. 'Yemeshan'. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. Fruits edible.

227516. *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

Col. No. 14924. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet. Cultivated as forage.

227517. *TRIGONELLA MONANTHA* C. A. Mey. Fabaceae.

Col. No. 14936. 'Badgka'. Ten miles northeast of Shiraz. Elevation 5,000 feet. Decumbent, annual herb with yellow flowers; browsed by sheep.

227518. *LATHYRUS APHACA* L. Fabaceae. **Peavine.**

Col. No. 15085. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

227519. *VICIA ANGSTIFOLIA* L. Fabaceae. **Narrowleaf vetch.**

Col. No. 15087. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

227520. *LATHYRUS APHACA* L. **Peavine.**

Col. No. 15110. Kowkun Valley, Fars. Elevation 7,500 feet. Yellow-flowered annual in wheat field.

227521. (Undetermined.) Menthaceae.

Col. No. 15006. Sar Paniran Valley, Fars. Elevation 6,500 feet. Small annual; seeds used locally in medicine.

227522 to 227548.

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 16, 1955.

227522. *ARCTOSTAPHYLOS ALPINUS* var. *JAPONICA* Hulten. Ericaceae.

Col. No. 328. 'Urachima-tsutsutsi'. Mount Kurodake, Ishikari, Hokkaido. Prostrate shrub; flowers small, white, tinged with pink.

227523. *CAREX FLAVOCUSPIS* Franch & Sav. Cyperaceae. **Sedge.**

Col. No. 323. 'Miamo-kuro-surge.' Mount Kurodake, Ishikari, Hokkaido.

227524. *CEPHALOTAXUS HARRINGTONIA* var. *NANA* (Nakai) Rehder Taxaceae.

Col. No. 337. 'Yezp-inu-gaya'. Among forest trees, Mopporo National Forest, Hokkaido. Procumbent, rooting readily from the stems.

227525. *DAPHNIPHYLLUM HUMBLE* Maxim. Euphorbiaceae.

Col. No. 335. 'Yezo-yuzuriha'. Mopporo National Forest, Hokkaido. Dwarf evergreen.

227526. *DIAPENSIA OBOVATA* Nakai & Koidz. Diapensiaceae.

Col. No. 313. 'Iwa-une'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Dwarf shrub; leaves small, in rosettes. Flowers white.

227527. *EMPETRUM NIGRUM* L. Empetraceae. **Black crowberry.**

Col. No. 331. 'Gankoran'. Mount Kurodake, Ishikari, Hokkaido. Dwarf; flowers white, tinged with pink. Received as var. *asiaticum*, an apparently unpublished name.

227528. *FRITILLARIA CAMSCHATCENSIS* (L.) Ker. Liliaceae.

Col. No. 338. University of Hokkaido, Hokkaido.

227529. *GEUM PENTAPETALUM* (L.) Makino Rosaceae.

Col. No. 318. 'Chin-guruma'. Mount Kurodake, Ishikari, Hokkaido. Flowers white.

227530. *HYDRANGEA SERRATA* f. *ACUMINATA* (Sieb. & Zucc.) Wils. Hydrangeaceae.

Col. No. 333. 'Beni-gaku'. Botanical Garden, University of Hokkaido, Sapporo, Hokkaido. Garden form with sterile pink ray florets and reddish petioles. Originally from Manchuria.

227531. *ILEX CRENATA* var. *RADICANS* (Nakai) Tatewaki Aquifoliaceae.

Japanese holly.

Col. No. 336. 'Hai-inutsuge'. Mopporo National Forest, Hokkaido. Creeper, rooting easily from stems.

227532. *LEDUM PALUSTRE* L. Ericaceae. **Crystaltea ledum.**

Col. No. 329. 'Hosoba-yezo-isu-tsutsui'. Mount Kurodake, Ishikari, Hokkaido. Leaves small, narrow; hairs dense, brown.

227533. *LILIUM MEDEOLOIDES* A. Gray Liliaceae. **Wheel lily.**

Col. No. 339. 'Kuruma-yuri'. Mount Teine, Province Ishikari. Presented by J. Samejima, Hokkaido University.

227534. *PATRINIA SIBIRICA* Juss. Valerianaceae.

Col. No. 324. 'Takane-ominaeshi'. Mount Kurodake, Ishikari, Hokkaido. Perennial; leaves thick, pinnate; flowers bright yellow.

227535. *PEDICULARIS CHAMISSONIS* Stev. Scrophulariaceae.

Col. No. 319. 'Yezo-yotsuba-shiogama'. Mount Kurodake, Ishikari, Hokkaido. Perennial; flowers pink-purple, in racemes, August.

227522 to 227548—Continued

227536. *PENSTEMON FRUTESCENS* Lamb. Scrophulariaceae.

Col. No. 325. 'Tarumae-so'. Sandy places, Mount Kurodake, Ishikari, Hokkaido. Plant prostrate; flowers purple.

227537 and 227538. *PHYLLODOCE ALEUTICA* (Spreng.) Heller Ericaceae.

Aleutian mountainheath.

227537. Col. No. 315. 'Ao-nutsuga zakura'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Prostrate shrub; flowers yellow.

227538. Col. No. 316. Mount Kurodake, Ishikari, Hokkaido. Elevation, 1,600 meters. Flowers white.

227539. *PHYLLODOCE CAERTULEA* (L.) Bab.

Blue mountainheath.

Col. No. 314. 'Eso-tsuga zakura'. Mount Kuradake, Ishikari, Hokkaido. Elevation 1,600 meters. Prostrate shrub; flowers bell shaped, pink.

227540. *RHODODENDRON CAMTSCHATICUM* Pall. Ericaceae.

Col. No. 312. 'Yezp-tgutsuji'. Kurodake, Ishikari, Hoddiaido. Elevation 1,900 meters. Dwarf; flowers purple.

227541. *RHODODENDRON CHRYSANTHUM* Pall.

Goldmat rhododendron.

Col. No. 326. 'Kibana-shakunage'. Mount Kurodake, Ishikari, Hokkaido. Flowers pale lemon-yellow.

227542. *SALIX PAUCIFLORA* Koidz. Salicaceae.

Willow.

Col. No. 320. 'Yezo-no-mame-uanagi'. Mount Kurodake, Ishikari, Hokkaido. Dwarf.

227543. *SASA KURILENSIS* (Rupr.) Makino & Shibata Poaceae.

Bamboo.

Col. No. 330. 'Chishima-zasa'. Mount Kurōdake, Ishikari, Hokkaido.

227544. *SAXIFRAGA LACINIATA* Nakai & Takeda Saxifragaceae.

Col. No. 321. 'Hime-yama-hanaso'. Gravelly places, Mount Kurodake, Ishikari, Hokkaido. Small perennial; leaves lacineate; flowers white, tinged pink.

227545. *SYRINGA* sp. Oleaceae.

Col. No. 332. Botanical Garden, University of Hokkaido, Sapporo, Hokkaido. Originally from Manchuria. Plant to 2 meters; flowers purple.

227546. *VACCINIUM ULIGINOSUM* L. Vacciniaceae.

Bog bilberry.

Col. No. 317. 'Kuro-mame-no-ki'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Small shrub; fruits black.

227547. *CAREX* sp. Cyperaceae.

Col. No. 322. 'Daisetsu-iwa-suge'. Mount Kurodake, Ishikari, Hokkaido.

227548. *POA* sp. Poaceae.

Col. No. 327. 'Mambu-somo-somo'. Mount Kurodake, Ishikari, Hokkaido.

227549 and 227550.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

227549. *CARPINUS CORDATA* Blume Betulaceae.

Heartleaf hornbeam.

Col. No. 334. 'Sawa Shiba'. Mopporo National Forest, Hokkaido. Aug. 9, 1955.

227550. *VACCINIUM AXILLARE* Nakai Vacciniaceae.

Col. No. 311. 'Kuro-usugo'. Mount Kurodake, Ishikari, Hokkaido. Aug. 5, 1955. Elevation 1,600 meters.

227551 to 227554.

From Costa Rica. Seeds collected by B. G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 17, 1955.

227551. *BEGONIA CARPINIFOLIA* Liebm. Begoniaceae.

Col. No. 629. Along ravine, off main road to left of Pulperia Las Nubes, Las Nubes. June 2, 1955. Stout spreading herb or shrub on overhanging bank along stream.

227552. *BEGONIA INVOLUCRATA* Liebm.

Col. No. 633. Along ravine, off main road to left of Pulperia Las Nubes, Las Nubes. June 2, 1955. Stout shrub, in fruit.

227553. *INGA VERA* Willd. Mimosaceae.

Guaba inga.

Col. No. 905. Farm outside Barranca. July 22, 1955. Spreading tree, in fruit.

227554. (Undetermined.) Araceae.

Col. No. 619. Along trail near river, Alajuelita, south of San Jose. May 28, 1955. Araceous plant in fruit; berries bright red.

227555 to 227567. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

227555 to 227566. From the Obihiro Experiment Station, Hokkaido.

227555. 'Akazaya No. 1'.

227561. 'Ooyachi No. 2'.

227556. 'Chuseihikariguro'.

227562. 'Rankoshi No. 1'.

227557. 'Geden-shirazu'.

227563. 'Shizunai Daizu'.

227558. 'Jockachihadaka'.

227564. 'Tokachi-nagaba'.

227559. 'Kitami-nagaba'.

227565. 'Wasehadaka'.

227560. 'Nukanai Daizu'.

227566. 'Yoshioka Tairiu'.

227567. 'Nanguntakedate'. From Aomori Prefecture.

227568 to 227578.

From Japan. Plant material collected by J. J. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

Collected Aug., 1955.

227568. *CAMELLIA JAPONICA* L. Theaceae.

Common camellia.

Col. No. 341. 'Taubake'. Kominato, Aomori Prefecture. Northern limit where this is native. (Plants.)

227569. *ILEX CRENATA* var. *RADICANS* (Nakai) Tatewaki Aquilifoliaceae.

Japanese holly.

Col. No. 345. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Prostrate; leaves small; fruits black. (Plants.)

227570. *ILEX LEUCOLADA* Makino

Holly.

Col. No. 342. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Semi-prostrate; young growth and stems reddish. (Plants.)

227571. *ILEX SUGEROKII* Maxim.

Sugeroki holly.

Col. No. 344. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Upright, evergreen; fruits red, solitary, axillary. (Plants.)

227568 to 227578—Continued

227572. RHODODENDRON JAPONICUM (Gray) Schneid. Ericaceae. **Japanese azalea.**

Col. No. 346. 'Penge-tsulsutsi'. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Plants.)

227573. RHODODENDRON OBTUSUM var. KAEMPFERI (Planch.) Wilson **Torch azalea.**

Col. No. 340. 'Yama-tsutsuji'. Hakodate-yama, Oshima Province, Hokkaido. (Plants.)

227574. VACCINIUM AXILLARE Naki Vacciniaceae. **Blueberry.**

Col. No. 347. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Plants.)

227575. LILIUM LEICHTLINII var. TIGRINUM (Regel) Nichols. Liliaceae.

Included with *Ilex surgerokii*, (Field Note No. 344.) (Bulbs.)

227576. ILEX CRENATA var. RADICANS (Nakai) Tatewaki **Japanese holly.**

Col. No. 345. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Seeds.)

227577. ILEX SUGEROKII Maxim. Aquifoliaceae. **Sugeroki holly.**

Col. No. 344. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Seeds.)

227578. VACCINIUM SMALLII A. Gray Vacciniaceae.

Col. No. 343. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Plant low; foliage reddish; fruits large, black with bitter flavor. (Seeds.)

227579 to 227583. LITCHI CHINENSIS Sonner. Sapindaceae. **Lychee.**

From India. Air layers presented by the Fruit and Research Station, Saharanpur, United Province. Received Aug. 18, 1955.

227579. Calcuttia'. **227582.** 'Late Seedless'.

227580. 'Early Large Red'. **227583.** 'Rose-scented'.

227581. 'Late Large Red'.

227584 to 227590.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 19, 1955. Collected June and July, 1955.

227584. LYCHNIS sp. Silenaceae.

Col. No. 15252. Canyon above Dastana, south of Shahr-Kord. Elevation 7,500 feet. Spreading perennial to 16 inches.

227585 and 227586. PRUNUS BOKHARIENSIS Royle Amygdalaceae.

227585. Col. No. 15000. Abadeh, Fars. Fruits small, tart; color yellowish to red.

227586. Col. No. 15256. 'Shaftchi'. Dastana, south of Shahr-Kord. Elevation 7,000 feet. Grafted tree with small nectarine type of fruits of good flavor.

227587. PRUNUS CERASIFERA Ehrh. Amygdalaceae. **Myrobalan plum.**

Col. No. 15206. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Cultivated; fruits small, light colored; flesh sweet.

227588. PRUNUS sp.

Col. No. 15075. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Stout, erect shrub.

227589. TULIPA sp. Liliaceae.

Col. No. 15195. Eight miles west of Shahr-Kord, Bakhtiarian County. Elevation 7,000 feet.

227590. VICIA sp. Fabaceae.

Col. No. 15435. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Dense polypodial perennial to 2 feet high.

227591. *MICROBERLINIA BISULCATA* A. Chev. *Caesalpiniaceae*.

From French Cameroons. Seed presented by the Service des Eaux et Forêts, Yaounde.
Received Aug. 22, 1955.

From Yabassi.

227592 to 227595.

From Tunisia. Seeds presented by the Ecole Coloniale d'Agriculture de Tunis, Tunis.
Received Aug. 22, 1955.

227592. *MELILOTUS MESSANENSIS* (L.) All. *Fabaceae*. Sweetclover.

227593. *MELILOTUS ITALICA* (L.) Lam. Sweetclover.

227594. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.

227595. *MELILOTUS SEGETALIS* (Brot.) Seringe Sweetclover.

227596 to 227619

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 22, 1955. Collected Aug. 15, 1955.

227596. *CITRUS* sp. *Rutaceae*.

Col. No. 376. 'Hyuga-natsu-mikara'. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227597 and 227598. *CITRUS INTERMEDIA* Tanaka

227597. Col. No. 350. Summer Citrus Experiment Station, Kumamoto, Kyushu.

227598. Col. No. 355. Horticultural Division, National Tokai-kenki, Agriculture Experiment Station, Okitsu, Shizuoka.

227599 and 227600. *CITRUS JUNOS* Sieb.

227599. Col. No. 351. Summer Citrus Experiment Station, Kumamoto, Kyushu.

227600. Col. No. 357. Horticultural Division National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

227601 to 227607. *CITRUS NATSUDAIDAI* Hayata

227601. Col. No. 349. Summer Citrus Experiment Station, Kumamoto, Kyushu.

227602. Col. No. 354. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

227603. Col. No. 364. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227604. Col. No. 366. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227605. Col. No. 368. (No. 167) Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227606. Col. No. 368. B. 1. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227607. Col. No. 372. Prefecture Citrus Experiment Station, Hagi City, Kamaguchi.

227608 and 227609. *CITRUS TACHIBANA* (Makino) Tanaka Japanese orange.

227608. Col. No. 353. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka.

227609. Col. No. 374. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227610. *CITRUS TAIWANICA* Tanaka & Shimada

Col. No. 356. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

227596 to 227619—Continued**227611.** CITRUS sp.

Col. No. 375. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

227612. PONCIRUS TRIFOLIATA (L.) Raf. Rutaceae. **Trifoliolate-orange.**

Col. No. 352. Summer Citrus Experiment Station, Kumamoto, Kyushu.

227613. PONCIRUS TRIFOLIATA var. MONSTROSA (T. Ito) Swingle

Col. No. 358. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

227614 to 227617. PONCIRUS TRIFOLIATA (L.) Raf.**227614.** Col. No. 359. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.**227615.** Col. No. 360. Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.**227616.** Col. No. 361. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka-ken.**227617.** Col. No. 362. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.**227618.** VITIS AMURENSIS Rupr. Vitaceae. **Amur grape.**

Col. No. 83. Botanical Garden, Kyoto University, Kyoto. Staminate and pistillate plants. Originally collected in China.

227619. VITIS COIGNETIAE Pulliat **Gloryvine grape.**

Col. No. 84. Botanical Garden, Kyoto.

Originally from China.

227620. BETA sp. Chenopodiaceae.

From Iran. Roots collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 22, 1955.

Col. No. 15550. Villate near Namin, Azerbaijan. Aug. 11, 1955. Elevation 6,500 feet. Perennial with long, deep roots; growing in alfalfa field.

227621 to 227655.

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 23, 1955.

Collected Aug., 1955.

227621. VITIS DAVIDII (Carr.) Foëx. Vitaceae. **Brier grape.**

Col. No. 82. Cuttings from the Botanical Garden Kyoto University, Kyoto. Originally from China.

227622 to 227626. CAMELLIA SASANQUA Thunb. Theaceae. **Sasanqua camellia.**

Plants from Yamoto Nursery, Yamamoto, Hyogo Prefecture.

227622. Col. No. 125. 'Shishi gashira'. Flowers double, red.**227623.** Col. No. 129. 'Fuji no-mine'. Flowers double, white, October.**227624.** Col. No. 130. 'Kokinran'. Flowers single, red and white striped, October.**227625.** Col. No. 131. 'Hiodoshi'. Flowers semidouble, red with white stripes, November.**227626.** Col. No. 133. 'Hiri-yu'.**227627.** CAREX MORROWII Boott Cyperaceae. **Morrow sedge.**

Col. No. 116. Osaka City Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Leaves variegated. (Plants.)

227621 to 227655—Continued

227628 and 227629. CITRUS INTERMEDIA Tanaka Rutaceae.

227628. Col. No. 387. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227629. Col. No. 393. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

227630 to 227632. CITRUS JUNOS Sieb.

227630. Col. No. 389. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227631. Col. No. 394. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

227632. Col. No. 396. Ehime Experiment Station, Higashino, Matsuyama City, Ehime Prefecture. (Budwood.)

227633 to 227635. CITRUS NATSUDAIDAI Hayata

227633. Col. No. 386. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227634. Col. No. 392. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

227635. Col. No. 395. Rhime Experiment Station, Higashino, Matsuyama City, Rhime Prefecture. (Budwood.)

227636 and 227637. CITRUS TACHIBANA Tanaka

Japanese orange.

227636. Col. No. 385. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227637. Col. No. 391. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

227638. CITRUS TAIWANICA Tanaka & Shimada.

Col. No. 388. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227639. COTONEASTER sp. Malaceae.

Col. No. 122. Ikeda Nursery, Osaka Prefecture. (Plants.)

227640. QUERCUS MYRSINAEFOLIA Blume Fagaceae.

Oak.

Col. No. 119. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Evergreen tree; leaves small, ovate, coarsely serrate. (Plants.)

227641. GARDENIA AUGUSTA (L.) Merr. Rubiaceae.

Col. No. 127. Yamamoto Nursery, Yamamoto City, Hyogo Prefecture. Dwarf, to 1 foot high; flowers in July. (Plants.)

227642. HOSTA ALBOMARGINATA (Hook.) Ohwi Liliaceae.

Col. No. 115. Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Various forms ranging from dwarf to tall, also variegated. (Plants.)

227643. HOUTTUYNIA sp. Saururaceae.

Col. No. 117. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Leaves variegated. (Plants.)

227644. LYCORIS SANGUINEA Maxim. Amaryllidaceae.

Orange lycoris.

Col. No. 498. Obtained from H. Nogouri, Tokyo. (Plants.)

227645 and 227646. NANDINA DOMESTICA Thunb. Berberidaceae.

227645. Col. No. 123. 'Shiro-nanten'. Ikeda Nursery, Osaka Prefecture. Fruit white. (Plants.)

227621 to 227655—Continued**227645 to 227646—Continued**

227646. Col. No. 124. 'Nanter'. Ikeda Nursery, Osaka Prefecture. Fruits unusually dark red. (Plants.)

227647. *OSMANTHUS* sp. Oleaceae.

Col. No. 121. Ikeda Nursery, Osaka Prefecture. Leaves obovate, entire. (Plants.)

227648. *PITTOSPORUM TOBIRA* (Willd.) Ait. Pittosporaceae.

Col. No. 132. Yamamoto Nursery, Yamamoto City. Hyogo Prefecture.

227649. *PONCIRUS TRIFOLIATA* var. *MONSTROSA* (T. Ito) Swingle Rutaceae.
Trifoliolate-orange.

Col. No. 390. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

227650. *PONCIRUS TRIFOLIATA* (L.) Raf. **Trifoliolate-orange.**

Col. No. 397. Ehime Experiment Station, Hyashino, Matsuyama City, Ehime Prefecture. (Budwood.)

227651. *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. **Japanese pieris.**

Col. No. 128. 'Beni-bana-asebi'. Yamamoto Nursery, Yamamoto City, Hyogo Prefecture. Flowers red. (Plants.)

227652. *RAPHIOLEPIS UMBELLATA* (Thunb.) C. Schneid. Malaceae.
Yeddo-hawthorn.

Col. No. 106. Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Handsome, dwarf shrub; leaves obovate; flowers white. (Plants.)

227653. *SINOMENIUM DIVERSIFOLIUM* Diels Menispermaceae.

Col. No. 90. On wooded slopes, Kanikamo Forest, Kyoto. Scandent vine.

227654. *VACCINIUM JAPONICUM* Miq. Vacciniaceae. **Japanese blueberry.**

Col. No. 118. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Dwarf; branches angular; leaves small. (Plants.)

227655. *VITEX ROTUNDIFOLIA* L. f. Verbenaceae.

Col. No. 67. On seawall, Okitsu, Ihara District, Shizuoka Prefecture. Vine succulent; stems squarish; leaves round.

227656. *PRUNUS DOMESTICA* L. Amygdalaceae. **Common plum.**

From New Zealand. Budwood presented by A. H. Swarbrick, Hamilton. Received Aug. 23, 1955.

'Sage McVerna'.

227657 to 227679.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

Collected June and July, 1955.

227657. *AGROSTIS SEMIVERTICILLATA* (Forsk.) C. Chr. Poaceae. **Bentgrass.**

Col. No. 15135. Near Homaijan, Fars. Elevation 6,500 feet.

227658. *AVENA* sp. Poaceae.

Col. No. 15115. Kowkun Valley, Fars. Elevation 7,500 feet. On stony land. Perennial to 1 foot high.

227657 to 227679—Continued

227659 and 227660. *BOISSIERA BROMOIDES* Hochst. & Steud. Poaceae.

227659. Col. No. 14942. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Common spring annual grass; browsed by sheep.

227660. Col. No. 14943. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Common tufted annual grass.

227661. *BROMUS STERILIS* L. Poaceae.

Poverty brome.

Col. No. 15021. Chelcheshmi, about 30 miles west of Shiraz. Elevation 6,500 feet.

227662 and 227663. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

227662. Col. No. 14851. 'Harbusa'. Market, Esfahan. Elevation 5,300 feet. Fruits oblong; yellow and green; excellent flavor.

227663. Col. No. 15070. 'Harbusa'. Market, Estavanat, Fars. Elevation 5,900 feet. Fruits large, oblong; cultivated by irrigation.

227664. *CUCUMIS SATIVUS* L.

Cucumber.

Col. No. 15062. Market, Estavanat, Fars. Elevation 5,900 feet. Small, mild-flavored variety.

227665 and 227666. *ELYMUS CRINITUS* Schreb. Poaceae.

Wildrye.

227665. Col. No. 15935. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual.

227666. Col. No. 15013. About 13 miles west of Shiraz. Elevation 6,000 feet. Abundant, colonial annual to 1 foot high.

227667. *HENRARDIA PERSICA* (Boiss.) C. E. Hubb. Poaceae.

Col. No. 15018. About 13 miles west of Shiraz. Elevation 6,000 feet. Small, rare annual.

227668. *HORDEUM* sp. Poaceae.

Col. No. 14981. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Tough xerophytic perennial.

227669. *HORDEUM* sp.

Col. No. 15031. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Stooling annual; distinct, but much like cultivated barley.

227670. *PHALARIS ARUNDINACEA* L. Poaceae.

Reed canarygrass.

Col. No. 15128. 'Negila'. Komehr Valley, Fars. Elevation 7,500 feet. Hydrophytic, along ditches.

227671. *PISUM SATIVUM* L. Fabaceae.

Garden pea.

Col. No. 15116. Kowkun Valley, Fars. Elevation 7,500 feet. Small, leafy, perennial; along irrigation ditch.

227672. *POA TRIVIALIS* L. Poaceae.

Roughstalk bluegrass.

Col. No. 15130. Komehr Valley, Fars. Elevation 7,500 feet. Small, leafy perennial; along irrigation ditch.

227673. *POA* sp.

Col. No. 15131. Komehr Valley, Fars. Elevation 7,500 feet. Perennial with single culm.

227674. *PRUNUS* sp. Amygdalaceae.

Col. No. 15034. 'Boharach'. Mountain slope between Dasht Arjan and Kazerun, Fars. Elevation 5,000 feet. Spreading tree; branchlets green. Used as grafting stock for cultivated almonds.

227675. *PRUNUS* sp.

Col. No. 15076. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Vigorous, erect spreading shrub.

227657 to 227679—Continued

227676. *STIPA* sp. Poaceae.

Col. No. 14966. Fifteen miles east of Dehbid, Fars. Elevation 8,000 feet. Perennial, forming low clumps; eaten by gazelles and sheep.

227677. *TRIGONELLA MONANTHA* C. A. Mey. Fabaceae.

Col. No. 14957. Fields of Takht-e Jamshid. Elevation 5,500 feet. Spreading annual, along ditch.

227678. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

Col. No. 15242. 'Gandum kakuli'. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Irrigated spring type.

227679. *ZEA MAYS* L. Poaceae.

Corn.

Col. No. 15142. 'Durat'. Market, Shiraz. Elevation 5,200 feet.

227680. *SOLANUM TUBEROSUM* L. Solanaceae.

Potato.

From Australia. Tubers presented by N. S. Shirlow, Department of Agriculture, Sydney, New South Wales. Received Aug. 26, 1955.

Selection 11-79 (Walanga).

227681 to 227683.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

227681. *ABIES SACHALINENSIS* (Schmidt) Masters Pinaceae.

Sakhalin fir.

Col. No. 383. Kushiro, Teshikaga Forestry Station, Hokkaido. Aug. 17, 1955.

227682. *PICEA JEZOENSIS* (Sieb. & Zucc.) Carr. Pinaceae.

Yeddo spruce.

Col. No. 384. Kushiro, Teshikaga Forestry Station, Hokkaido. Aug. 17, 1955.

227683. *ZOYSIA JAPONICA* Steud. Poaceae.

Japanese lawngrass.

Col. No. 348. Mount Hokkaido, near Jigokunuma, Aomori Prefecture. Aug. 13, 1955.

227684 to 227689.

From Okinawa. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

From the Agricultural Experiment Station, Naha. Aug. 17, 1955.

227684 to 227686. *GLYCINE MAX* (L.) Merr. Fabaceae.

Soybean.

227684. Col. No. 377. 'Aiohigu'.

227685. Col. No. 378. 'Shiko-anola'. Vegetable type.

227686. Col. No. 379.

227687 to 227689. *GLYCINE TOMENTOSA* Benth.

227687. Col. No. 380. No. 1. 'Miyako white'.

227688. Col. No. 381. No. 2.

227689. Col. No. 382. No. 30. White.

227690. *CALLISTEMON SHIRESSII* Blakely Myrtaceae.

Bottlebrush.

From Australia. Seeds presented by Hazlewood Bros., Proprietary Limited, Epping, New South Wales. Received Aug. 29, 1955.

227691 *MALUS* sp. Malaceae.

From India. Seeds presented by the Division of Mycology, Indian Agricultural Research Institute, New Delhi. Received Aug. 29, 1955.

Collected in Kashmir.

227692 to 227698.

From Sicily. Budwood presented by the Stazione Agromicoltura, Acireale. Received Aug. 30, 1955.

227692. CITRUS LIMON (L.) Burm. f. Rutaceae. **Lemon.**

'Santa Theresa'. No. 1. Clone selected from a tree of 'Feminello' at Santa Theresa in Messina which survived "mal secco." Aug. 22, 1955.

227693. CITRUS RETICULATA Blanco **Mandarin orange.**

'Avana'. No. 7. A variety from Acireale, West Sicily. Budwood from one tree. Aug. 22, 1955.

Originally from Palermo.

227694 to 227698. CITRUS SINENSIS (L.) Osbeck **Sweet orange.**

Collected Aug. 22, 1955.

227694. 'Bella Donna'. No. 4. An old Sicilian variety.

227695. 'Ovale'. No. 2. An old Sicilian variety.

227696. 'Ovale'. No. 3.

227697. 'Noro'. No. 5.

227698. 'Sangra Doble Fina'. No. 6. Originally from Spain.

227699 to 227718.

From Brazil. Seeds presented by Instituto Agronomico do Estado de Sao Paulo, Campinas, Sao Paulo. Received Aug. 30, 1955.

227699 to 227706. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

227699. 'Angustifolia' (C-15-2). **227703.** 'Bourbon' (red).

227700. 'Anomala' (C-19). **227704.** 'Caturra' (yellow).

227701. 'Anormalis'. **227705.** 'Caturra' (red).

227702. 'Bourbon' (yellow). **227705.** 'Cera'.

227707. COFFEA ARABICA VAR. ERECTA Cramer **Coffee.**

227708. COFFEA ARABICA VAR. GOIABA Taschdjian **Coffee.**
G-30.

227709. COFFEA ARABICA VAR. LAURINA Cramer **Coffee.**

22710 and 227711. COFFEA ARABICA VAR. MARAGOGIPE Froehn **Coffee.**

227710. Yellow.

227711. Red.

227712. COFFEA ARABICA VAR. MOKKA Cramer **Coffee.**

227713. COFFEA ARABICA L. **Arabian coffee.**

'Murta'.

227714. COFFEA ARABICA VAR. POLYSPERMA Cramer **Coffee.**

227715. COFFEA ARABICA VAR. PURPURASCENS Cramer **Coffee.**

227716 to 22718. COFFEA ARABICA L. **Arabian coffee.**

227716. 'Semperflorens'.

227717. Typical form. (C10).

227718. 'Xanthocarpa'.

227719. CLAUSENA INDICA Oliver Rutaceae.

From Australia. Seeds presented by Edward Pollock, Parkes, New South Wales. Received Aug. 31, 1955.

227720. SCHINOPSIS LORENTZII (Griseb.) Engl. Anacardiaceae.

Quebracho.

From Argentina. Seeds presented by the Divisio de Exploraciones y Introduction de Plantas, Buenos Aires. Received Aug. 31, 1955.

SD 55-170.

227721. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

From Germany. Budsticks presented by the Christian Fey Nursery, Meckenheim bei Bonn. Received Aug. 31, 1955.

'Schöner aus Boskoop'.

227722 to 227747. FRAGARIA (hybrids). Rosaceae.

Strawberry.

From Germany. Plants presented by Dr. H. Muller, Institut für Gartenbau, Dresden-Pillnitz. Received Sept. 1, 1955.

227722. 'Aprikose'.

227735. 'Laxton's Noble'.

227723. 'Bavaria'.

227736. 'Lucida Perfecta'.

227724. 'Deutch Evern'.

227737. 'McMahon'.

227725. 'Eva Macpherauch'.

227738. 'Mieze Schindler'.

227726. 'Ernst Preuss'.

227739. 'Roter Elefant'.

227727. 'Flandern'.

227740. 'Rotkappchen'.

227728. 'Franken'.

227741. 'Sharpless'.

227729. 'Georg Soltwedel'.

227742. 'Sieger'.

227730. 'Hansa'.

227743. 'Triumph'.

227731. 'Johannes Muller'.

227744. 'Lucida Perfecta Improved'.

227732. 'Jucunda'.

227745. 'Weisse Ananas'.

227733. 'Kaiser's Samling'.

227746. 'Wunder von Kothen'.

227734. 'Latest of All'.

227747. 'Zarathustra'.

227748. SEDUM sp. Crassulaceae.

From Iran. Plant collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 1, 1955.

Col. No. 15533. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Small, perennial; among rocks.

227749 to 227753.

From Turkey. Seeds presented by the Seed Improvement Station, Eskisehir. Received Sept. 2, 1955.

227749 to 227751. LOTUS CORNICULATUS L. Fabaceae.

Birdsfoot trefoil.

227749. No. 1-155. Yesilkoy.

227750. No. 1-203. Eskisehir.

227751. No. 1-340. Ankara.

227752. TETRAGONLOBUS PURPUREUS Moench Fabaceae.

Reg. No. 1-99. Originally from Cyprus.

227753. LOTUS sp. Fabaceae.

Reg. No. 1-96. Originally from Cyprus.

227754 to 227831.

From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guatemala City. Received Sept. 2, 1955.

227754 to 227831—Continued

227754 and 227755. PHASEOLUS AUREUS Roxb. Fabaceae.		Mung bean.
227754. No. 6175.		
227755. No. 6176.		
227756. PHASEOLUS CALCARATUS Roxb. Fabaceae.		Rice bean.
No. 6232.		
227757 to 227762. PHASEOLUS LUNATUS L. Fabaceae.		Lima bean.
227757. No. 6190.	227760. No. 6229.	
227758. No. 6218.	227761. No. 6230.	
227759. No. 6221.	227762. No. 6257.	
227763. PHASEOLUS MUNGO L. Fabaceae.		Urd.
No. 6178.		
227764. PHASEOLUS POLYANTHUS Greenm. Fabaceae.		Bean.
No. 6231.		
227765 to 227825. PHASEOLUS VULGARIS L. Fabaceae.		Common bean.
227765. No. 6173.	227793. No. 6210.	
227766. No. 6174.	227794. No. 6211.	
227767. No. 6177.	227795. No. 6212.	
227768. No. 6179.	227796. No. 6213.	
227769. No. 6180.	227797. No. 6214.	
227770. No. 6181.	227798. No. 6215.	
227771. No. 6182.	227799. No. 6216.	
227772. No. 6183.	227800. No. 6220.	
227773. No. 6184.	227801. No. 6222.	
227774. No. 6185.	227802. No. 6224.	
227775. No. 6186.	227803. No. 6225.	
227776. No. 6187.	227804. No. 6226.	
227777. No. 6189.	227805. No. 6227.	
227778. No. 6191.	227806. No. 6228.	
227779. No. 6193.	227807. No. 6233.	
227780. No. 6194.	227808. No. 6234.	
227781. No. 6195.	227809. No. 6235.	
227782. No. 6197.	227810. No. 6237.	
227783. No. 6198.	227811. No. 6238.	
227784. No. 6201.	227812. No. 6239.	
227785. No. 6202.	227813. No. 6240.	
227786. No. 6203.	227814. No. 6241.	
227787. No. 6204.	227815. No. 6242.	
227788. No. 6205.	227816. No. 6243.	
227789. No. 6206.	227817. No. 6244.	
227790. No. 6207.	227818. No. 6245.	
227791. No. 6208.	227819. No. 6246.	
227792. No. 6209.	227820. No. 6247.	

227754 to 227831—Continued**227765 to 227825—Continued**

227821. No. 6248.	227824. No. 6251.
227822. No. 6249.	227825. No. 6252.
227823. No. 6250.	

227826 to 227831. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

227826. No. 6196.	227829. No. 6253.
227827. No. 6199.	227830. No. 6254.
227828. No. 6200.	227831. No. 6255.

227832 to 227880.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 30, 1955.

Collected in June and July, 1955.

227832. *AEGILOPS CRASSA* Boiss. Poaceae. **Goatgrass.**

Col. No. 15210. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Low spring annual; about 8 inches high; head very large.

227833. *ASTRAGALUS PTYCHOPHYLLUS* Boiss. Fabaceae. **Milkvetch.**

Col. No. 15170. 'Titack'. Kullykush, between Dehbid and Abadeh, Fars. Elevation 8,000 feet. Low, spreading perennial; about 8 inches high; heads long pedunculate; roots with small gum cylinder.

227834. *ASTRAGALUS* sp.

Col. No. 15173. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Bush small, erect; spiny; roots with gum cylinder.

227835. *ASTRAGALUS* sp.

Col. No. 15193. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. Perennial bush; browsed by livestock.

227836. *ASTRAGALUS* sp.

Col. No. 15202. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Low, spreading, prostrate perennial; browsed by sheep.

227837. *ASTRAGALUS* sp.

Col. No. 15231. Limestone mountain southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Low, spreading, perennial about 9 inches broad; with gum cylinder.

227838. *AVENA* sp. Poaceae.

Col. No. 15248. Canyon above Dastana, south of Shahr-Kord. Elevation 7,000 feet. Perennial with bulbs on roots; scattered on rocky slope; palatable.

227839 and 227840. *BROMUS TOMENTELLUS* Boiss. Poaceae. **Brome.**

227839. Col. No. 14963. Twenty miles south of Dehbid along road to Shiraz. Elevation 7,000 feet. Perennial to 4 feet high; good xerophytic forage plant.

227840. Col. No. 15020. Near Chelchesmi, 30 miles west of Shiraz. Elevation 6,500 feet. Perennial; heads small, on slender culms; palatable.

227841. *CACHRYS* sp. Apiaceae.

Col. No. 15151-A. 'Sweet Jashir'. Mountain southwest of Bajgah Valley, east of Shiraz. Elevation 7,500 feet. Bushy, spreading, perennial herb; leaves abscising at ground level. Leaf stems eaten pickled; hay fed to cattle to increase milk production.

227842. *EREMURUS* sp. Liliaceae.

Col. No. 15178. Twenty miles northwest of Abadeh, Fars. Elevation 7,000 feet. Herb with several peduncles; flowers lined pale-red.

227832 to 227880—Continued

227843. *FERULA* sp. Apiaceae.

Col. No. 15152. 'Koma'. Mountain southwest of Bajgah Valley, east of Shiraz. Elevation 7,500 feet. Bushy coarse herb; leaves dissected; used as hay for winter feeding.

227844. *HORDEUM* sp. Poaceae.

Col. No. 15162. Kuhe Bavanat, Fars. Elevation 8,000 feet. Arid rocky slope. Stongly rooted, tufted perennial; eaten by sheep and goats.

227845 and 227846. *HORDEUM VULGARE* L.

Barley.

227845. Col. No. 15187. 'Jul'. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Cultivated by irrigation for stock feed.

227486. Col. No. 15198. Eight miles west of Shahr-Kord, Bakhtiari Country. Elevation 7,000 feet. Plant short, multiple stooling, about 16 inches high.

227847. *LATHYRUS CICERA* L. Fabaceae.

Flatpod peavine.

Col. No. 15159. 'Gaydanch Horoo'. Didigone, Fars. Bushy, annual herb, to 1 foot high; flowers blue; cultivated by irrigation for cattle feed.

227848. *LINUM* sp. Linaceae.

Col. No. 15208. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Spring annual; flowers large, yellow.

227849. *LOTUS CORNICULATUS* L. Fabaceae.

Birdsfoot trefoil.

Col. No. 15119. Kowkun Valley, Fars. Elevation 7,500 feet. Procumbent, perennial herb; well liked by livestock.

227850. *MEDICAGO POLYMRPHA* var. *VULGARIS* (Benth.) Shinnars Fabaceae.

California burclover.

Col. No. 15155. Bajgah, about 10 miles east of Shiraz. Elevation 5,500 feet.

227851. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

Col. No. 15209. Dastana, south of Shahr-Kord. Elevation 6,800 feet.

227852. *MORUS ALBA* L. Moraceae.

White mulberry.

Col. No. 15141. 'Tut shehfit'. Market, Shiraz. Elevation 5,200 feet. Large spreading tree; valued for shade and fruit.

227853. *ONOBRYCHIS* sp. Fabaceae.

Col. No. 15200. About 12 miles west of Shahr-Kord, Bakhtiarian Country. Elevation 6,800 feet. Eaten by sheep.

227854. *ONOBRYCHIS* sp.

Col. No. 15241. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Spring annual; ungrazed area near wheat field.

227855. *ORYZOPSIS HOLCIFORMIS* (M. Breb.) Hack. Poaceae.

Ricegrass.

Col. No. 14980. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Perennial herb; leaves to 6 inches long; much liked by gazelles and sheep.

227856. *ORYZOPSIS* sp. Poaceae.

Col. No. 15028. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Tall vigorous perennial.

227857. *ORYZOPSIS* sp.

Col. No. 15232. Limestone mountain southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Perennial; much liked by sheep.

227858. *POA ATTICA* Boiss & Heldr. Poaceae.

Bluegrass.

Col. No. 15025. Dasht Arjan, Fars. Elevation 6,600 feet. Perennial growing along stream.

227859 to 227862. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

227859. Col. No. 14144. 'Zadoluh Tarh'. Market, Shiraz. Elevation 5,200 feet. Variety with bitter pits.

227832 to 227880—Continued**227859 to 227862—Continued**

227860. Col. No. 15143. 'Katanie'. Market, Shiraz. Elevation 5,200 feet. Medium-sized trees; fruits large, sweet.

227861. Col. No. 15244. 'Sardoluh'. Dastana, south of Shahr-Kord. Elevation 6,700 feet. Seeds of two varieties.

227862. Col. No. 15066. Market, Estavanat, Fars. Elevation 5,900 feet. Variety with small fruits.

227863 and 227864. *PRUNUS AVIUM* L. **Sweet cherry.**

227863. Col. No. 15138. 'Albalu'. Market, Shiraz. Elevation 5,200 feet.

227864. Col. No. 15148. 'Gilas'. Market, Shiraz. Elevation 5,200 feet. Fruits medium size.

227865. *PRUNUS PERSICA* (L.) Batsch **Peach.**

Col. No. 15146. 'Shaftalu and Holuh'. Market, Shiraz. Elevation 5,200 feet. Mixture of 2 varieties; one large and sweet; the other small and sour.

227866. *PRUNUS* sp.

Col. No. 15163. Kuhe Bavanat, Fars. Elevation 8,500 feet. Low spreading shrub on rocks; fruits black.

227867. *PRUNUS* sp.

Col. No. 15180. Market, Estavanat, Fars.

227868. *RHEUM* sp. Polygonaceae.

Col. No. 15096. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. A wild, edible rhubarb.

227869. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

Col. No. 15139. 'Karchakh'. Market, Shiraz. Elevation 5,200 feet. Cultivated for oil.

227870. *SECALE CEREALE* L. Poaceae. **Rye.**

Col. No. 15188. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. An escape in wheatfields.

227871. *SEDUM* sp. Crassulaceae.

Col. No. 15533. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Small perennial among rocks.

227872. *STIPA* sp. Poaceae.

Col. No. 15001. Twenty-two miles south of Dehbid along road from Abadeh to Shiraz. Elevation 7,000 feet. Tall perennial bunchgrass.

227873 and 227874. *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**

227873. Col. No. 15044. Dasht Arjan, Fars. Elevation 6,600 feet.

227874. Col. No. 15090. Homaijan near Ardakan, Fars. Elevation 7,000 feet.

227875. *TRIFOLIUM RESUPINATUM* L. **Persian clover.**

Col. No. 15137. Market, Shiraz. Elevation 5,200 feet.

227876. *TRIFOLIUM REPENS* L. **Whiteclover.**

Col. No. 15215. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Stoliferous, spreading perennial; flowers white.

227877. *TRITICUM* (hybrid). Poaceae.

Col. No. 15203. (*Triticum* × *Aegilops*). Dastana, south of Shahr-Kord. Elevation 6,800 feet. Small spring annual to 10 inches high; stems multiple.

227878. *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 15204. 'Kesen'. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Small spring annual; cultivated for cattle feed.

227832 to 227880—Continued

227879 and 227880. *VICIA ANGUSTIFOLIA* L. **Narrowleaf vetch.**

227879. Col. No. 15112. Kowkun Valley, Fars. Elevation 7,500 feet.

227880. Col. No. 15122. Kowkun Valley, Fars. Elevation 7,500 feet. Spreading herb, branching near base.

227881. *SAPINDUS MUKOROSI* Gaertn. Sapindaceae.

Chinese soapberry.

From Japan. Plants growing at the United States Plant Introduction Station, Glenn Dale, Md. Received Sept. 6, 1955.

227882 to 227917. *PERSEA AMERICANA* Mill. Lauraceae. **Avocado.**

From Texas. Scions held at the Department of Genetics, Agricultural and Mechanical College of Texas, College Station. Received Sept. 6, 1955.

227882 to 227900. Collected by J. B. Chambers, Harlingen, Texas.

227882 to 227886. Selections from Victoria, Mexico.

227882. 'Castro No. 2'. Fruit purple, to 6 ounces; matures in late May and June. Parentage probably a Mexican type.

227883. 'Castro No. 3'. Fruit black, to 8 ounces; season September to October in Victoria but matures in July in the Rio Grande Valley. Parentage probably Mexican and Guatemalan types.

227884. 'Rogelio Diaz'. Fruit purple, to 14 ounces; season August in the Lower Rio Grande Valley. Parentage probably Mexican and West Indian types.

227885. 'Santa Engracia'. Fruit purple, pyriform, to 14 ounces; season July to August in Victoria. Parentage probably Mexican and West Indian types.

227886. 'Alanis No. 3'. Fruit deep purple, to 6 ounces; small neck; no anthracnose; matures in late May and June. Parentage probably is a Mexican type.

227887 to 227900. Selections from Llera, Mexico.

227887. 'Paz No. 3'. Fruit purple, to 10 ounces; medium to small seed; matures in November and December. Parentage probably Mexican and West Indian types.

227888. 'Paz No. 4'. Fruit purple, pyriform, to 10 ounces; medium to small seed; matures in November and December. Parentage probably Mexican and West Indian types.

227889. 1-16. Fruit green, to 10 ounces; matures in July. Parentage probably Mexican and West Indian types.

227890. 1-18. Fruit green, to 10 ounces; skin thin; matures in July. Parentage probably a Mexican and West Indian hybrid.

227891. 5-2. Parentage probably Mexican and West Indian types.

227892. 7-2. 'Llera'. Fruit black, to 1 ounce; seedless; matures in July and August. Parentage probably Mexican.

227893. 10-2. Fruit purple, to 9 ounces; skin thin; matures in August. Parentage probably Mexican and West Indian types.

227894. 12-5. Fruit black, to 1.5 ounces; a little anthracnose on a few fruits; matures in July. Parentage probably a Mexican type.

227895. 14-8. Fruit black, to 8 ounces; matures in July. Parentage probably Mexican and West Indian types.

227896. 17-1. Tree erect with small dark-green leaves; fruit black, to 6 ounces; matures in July. Parentage probably a Mexican type.

227897. 17-3. Tree very vigorous; fruit black, to 6 ounces; matures in July. Parentage probably Mexican and West Indian types.

227882 to 227917—Continued**227882 to 227900—Continued****227887 to 227900—Continued**

227898. 18-19. Fruit green, to 8.5 ounces; matures in July. Parentage probably Mexican and West Indian types.

227899. 29-9. Fruit black, to 10 ounces; seed medium; matures in July. Parentage probably Mexican and West Indian types.

227900. 31-11. Fruit purple, to 8 ounces; matures in August and September. Parentage probably Mexican and West Indian types.

227901 to 227907. From the Exploration Committees of the Texas and California Avocado Societies.

227901 to 227904. From the Rodiles Plantation near Atlixco, Mexico.

227901. No. 13516. Fruit stalk 6 inches long, slender; fruit pale yellowish-green with conspicuous lenticels; flesh pale-cream colored, greenish near skin.

227902. No. 14366. 'Fuerte'-like hybrid; seeds rather large; little anise odor in leaves; no fiber apparent in flesh. Parentage probably Guatemalan and Mexican types.

227903. No. 14369. Fruit smooth with lenticels about as in 'Fuerte'; skin thin. Parentage probably Guatemalan and Mexican types.

227904. No. 14375. Fruit smooth and glossy; light green; season October in Atlixco. Parentage probably Guatemalan and Mexican types.

227905 to 227907. From Villa Guerrero, Mexico.

227905. No. 14382. Fruit black, no anthracnose; matures in April in Mexico. Parentage is probably a Mexican type.

227906. No. 14383. Fruit color green when mature; matures April to August in Mexico. Parentage probably a Mexican type.

227907. No. 14384. Fruit small, dark purple; seed fairly large; matures in April. Parentage a Mexican type.

227908 to 227916. Collected by N. P. Maxwell in Texas.

227908. Allen Selection. Mercedes. Cold hardy, salt resistant; fruit black; excellent flavor; to 5 ounces.

227909. 'Amidon'. Harlingen. Fruit green, almost spherical, to 12 ounces; skin thin, green.

227910. 'Hannam'. East of Donna. Fruit purple, elongate, to 6 ounces.

227911. 'Karr'. Harlingen. Fruit green, pyriform, to 14 ounces.

227912. 'McRill'. McAllen. Fruit light green, to 16 ounces.

227913. 'Pryor'. Uvalde. From a seedling tree.

227914. 'W. J. Selection'. San Juan. Salt resistant, very cold hardy; fruit black, pyriform, to 6 ounces.

227915. R No. 1. Raymondvillo. Vigorous, cold hardy, salt tolerant; fruit black, to 8 ounces; shy producer. A Mexican type.

227916. Y-6. Harlingen. Fruit green, smooth, to 6 ounces. A Mexican type.

227917. 'Haven'. Rio Grande Valley.

227918 to 227926.

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 7, 1955.

Collected in Kyuosumi-yama, Province Awa, Chiba. Aug. 31, 1955.

227918 to 227926—Continued

227918. *CARDIANDRA ALTERNIFOLIA* Sieb. & Zucc. Hydrangeaceae.

Col. No. 405. 'Kusa-azisai'. Herbaceous plant; flowers pink with sterile rim florets; appearing from July to September.

227919. *CONANDRON RAMONDIODES* Sieb. & Zucc. Gesneriaceae.

Col. No. 408. 'Iwa-tabako'. Herbaceous perennial; flowers purple; flowering in May.

227920. *DAMNACANTHUS INDICUS* Gaertn. f. Rubiaceae.

Col. No. 406. 'Aridoshi'. Small evergreen shrub; branches spreading at right angles. From northern limit of natural distribution.

227921. *EUCHRESTA JAPONICA* Benth. Fabaceae.

Col. No. 407. 'Miyama tobira'. Small evergreen shrub; leaves round, trifoliate, shiny; rootstock rhizomatous.

227922. *HYDRANGAEA INVOLUCRATA* Sieb. Hydrangeaceae.

Col. No. 404. 'Tama-azisai'.

227923. *PRUNUS SPINULOSA* Sieb. & Zucc. Amygdalaceae.

Col. No. 400. 'Rinboku'. Evergreen tree to 15 meters high; leaves coarse; serrations sharp.

227924. *RHODODENDRON KIYOSUMENSE* Makino Ericaceae.

Col. No. 401. Flowers purple.

227925. *SYMPLOCOS PRUNIFOLIA* Sieb. & Zucc. Symplocaceae. **Sweetleaf**

Col. No. 402. 'Kurobai'. Evergreen tree, to 7 meters high; flowers white, appearing in May.

227926. *VACCINIUM BRACTEATUM* Thunb. Vacciniaceae. **Oriental blueberry**

Col. No. 403. 'Shashanbo'. Evergreen shrub, to 5 meters high.

227927. *LEPTOCHLOA DUBIA* (H. B. K.) Nees Poaceae.

Green sprangletop.

From Libya. Seeds presented by the United States Operations Mission to Libya, Tripoli. Received Sept. 7, 1955.

227928. *DIOSCOREA* sp. Dioscoreaceae.

From Costa Rica. Collected by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 23, 1955.

Col. No. 939. Pan American Highway. Aug. 9, 1955. Elevation 9,000 feet. Vine with large horizontal tubers, to 8 inches below ground surface.

227929 to 227936. *CITRUS SINENSIS* (L.) Osbeck Rutaceae.

Sweet orange.

From Israel. Budwood presented by the Division of Plant Protection, Tel Aviv. Received Sept. 8, 1955.

'Shamouti'. Collected by the Rehovot Agricultural Research Station, Rehovot.

227929. No. 1. Tree 22 years old. **227933.** No. 1595.

227930. No. 2. Tree 22 years old. **227934.** No. 1517.

227931. No. 1426. **227935.** No. 1519.

227932. No. 1437. **227936.** No. 1520.

227937 and 227938. *ZEA MAYS* L. Poaceae.

Corn.

From the Canary Islands. Seed presented by the Servicio Agrícola Seragri, Las Palmas. Received Sept. 8, 1955

227937 and 227938—Continued

227937. 'Lanzarote'.

227938. 'Sur de Gran Canaria'.

227939 to 227944. ORYZA SATIVA L. Poaceae.

Rice.

From India. Seed presented by the Rice Specialist, Bihar, Sabour. Received Sept. 9, 1955.

227939. 16 BK (BR 5). 'Motisal'. Local variety, Shahabad District.

227940. 36 BK (BR 7). 'Kessore'. Local variety, Bhagalpur District.

227941. 88 BK (BR 6). 'Dahia'. Resembles 16 BK except the awns show slight development.

227942. 115 BK (BR 3). 'Dahia'. An early-ripening type. Aman paddy.

227943. 141 BK (BR 4). 'Jhulansar'. Local variety, Mohghyr District.

227944. 498-2A (BR 8). 'Kessore'. Bhagalpur District.

227945 and 227946. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Israel. Seeds presented to the Agricultural Experiment Station, Neve-Yaar. Received Sept. 9, 1955.

227945. No. 51.J.

227946. No. 150.J.

227947 to 227963. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Egypt. Seed presented by the Ministry of Agriculture, Giza. Received Sept. 12, 1955.

227947. Line 1289-2196.

227956. Line 1303-2483.

227948. Line 1290-2256.

227957. Line 1304-2536.

227949. Line 1290-2258.

227958. Line 1304-2581.

227950. Line 1290-2268.

227959. Line 1323-2618.

227951. Line 1291-2321.

227960. Line 1323-2621.

227952. Line 1291-2341.

227961. Line 1331-2636.

227953. Line 1291-2343.

227962. Line 1331-2638.

227954. Line 1293-2391.

227963. Line 1342-2651.

227955. Line 1293-2403.

227964. (Undetermined.)

From Iran. Bulbs collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 12, 1955.

Col. No. 15629. Five miles south of Khonsu, Ostan. Aug. 28, 1955. Elevation 9,000 feet. Ornamental perennial; flowers beautiful, red, spring; leaves black tipped.

227965. MUSSAENDA PHILIPPICA A. Rich. Rubiaceae.

From the Philippines. Plants presented by the Bureau of Plant Industry, Manila. Received Sept. 14, 1955.

227966. BETA LOMATOGONA Fisch. & Mey. Chenopodiaceae. Beet.

From Iran. Seed presented by K. G. Khadivi, Sugar Beet Seeds Institute, Tehran. Received Sept. 14, 1955.

Growing in the province of Azerbaijan.

- 227967.** *RAUVOLFIA HETEROPHYLLA* Willd. Apocynaceae **Devilpepper.**
 From Costa Rica. Seeds collected by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 15, 1955.
 Col. No. 903. Experiment farm near Barranca. July 22, 1955.
- 227968 to 227971.** *THEOBROMA CACAO* L. Sterculiaceae. **Cacao.**
 From Ecuador. Budwood presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guayaquil. Received Sept. 15, 1955.
227968. 'Cacao Nacional'. **227970.** EET-11-SIA-6.
227969. EET Clon 274-ICS-1. **227971.** S.C.A.-12 EET 110.
- 227972.** *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**
 From England. Seed presented by Deltapine, Limited, Liverpool. Received Sept. 16, 1955.
 Grown in Rarotonga and the Cook Islands.
- 227973.** *PHILADELPHUS* sp. Hydrangeaceae.
 From France. Plants and cuttings presented by S. L. Emsweller, Ornamental Crops Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 16, 1955.
- 227974 to 228008.**
 From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 16, 1955.
- 227974.** *ABIES SIKOKIANA* Nakai Pinaceae. **Fir.**
 Col. No. 431. 'Shikoku-shirabe'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Tree to 15 meters high; leaves glaucous, white underneath; cones short, purple.
- 227975.** *BETULA SIKOKIANA* Nakai Betulaceae. **Birch.**
 Col. No. 435. 'Shikoku-shirabe'. Foot of Mount Ishidzuchi. Elevation 800 meters. Tree to 8 meters high; bark exfoliating.
- 227976.** *DENDROPANAX* sp. Araliaceae.
 Col. No. 412. 'Kakure-miro'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Evergreen tree, to 6 meters high; leaves trifid on sterile branches, entire on fertile branches.
- 227977.** *DIOSCORIA QUINQUELOBA* Thunb. Dioscoreaceae. **Yam.**
 Col. No. 411. 'Mimiji Tokoro'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Leaves with 7 lobes; flowers bright orange; tubers large, horizontal.
- 227978.** *HYDRANGEA PANICULATA* Siebold Hydrangeaceae. **Panicle hydrangea.**
 Col. No. 428. 'Nori-utrugui'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Shrubby tree, to 3 meters high; sterile bracts, white to rose-colored.
- 227979.** *ILEX CRENATA* Thunb. Aquifoliaceae. **Japanese holly.**
 Col. No. 420. 'Inu-tsugi'. Foot of Mount Ishidzuchi. Elevation 800 meters. small narrow leaves.
- 227980.** *ILEX PEDUNCULOSA* Miq. **Longstack holly.**
 Col. No. 421. 'Soyogo'. Foot of Mount Ishidzuchi. Elevation 800 meters. Shrubby tree; leaves large, wavy margins; fruit red, on long stalks.
- 227981 to 227994.** *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. **Sweetpotato.**
227981. 'Korushirazu'.
227982. 'Norin No. 1'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station, Medium-maturing variety; for human consumption.

227974 to 228008—Continued

227981 to 227994—Continued

227983. 'Norin No. 2'. Kagoshima Farm, National Kyushu Agricultural Experiment Station. Medium to late-maturing variety; used for industrial and food purposes.

227984. 'Norin No. 3'. Kagoshima Farm, National Kyushu Agricultural Experiment Station. Medium-late variety; grown for food, industrial and fodder uses.

227985. 'Norin No. 4'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-maturing variety; used as food.

227986. 'Norin No. 5'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Early-maturing variety; used as food.

227987. 'Norin No. 6'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early maturing variety; used for food and fodder.

227988. 'Norin No. 8'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-maturing variety; used for fodder.

227989. 'Norin No. 10'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-late variety; used as food.

227990. 'Norin No. 11'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-late maturing variety; used as food; high resistance to black rot.

227991. 'Norin No. 13'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early ripening variety; used for fodder.

227992. 'Norin No. 14'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early maturing; for food and industrial uses.

227993. 'Okinasari'.

227994. 'Shirosengan'.

227995. *LYCORIS RADIATA* (L'Her.) Herbert Amaryllidaceae. **Shorttube lycoris.**

Col. No. 417. 'Higan-bana'. Igahu near Matsuyama, Ehime Prefecture, Shikoku. Flowers in umbels, dark red; scape 30 cm. high.

227996. *MAGNOLIA VERECUNDA* Koidz. Magnoliaceae.

Col. No. 436. 'O-yama-renge'. Foot of Mount Ishidzuchi. Tree small; leaves ovate; flowers white, pendent.

227997. *PHILADELPHUS SHIKOKIANUS* Nakai Hydrangeaceae. **Mockorange.**

Col. No. 418. 'Khikoku Utsugi'. Foot of Mount Ishidzuchi. Elevation 800 meters. Deciduous shrub; flowers white, early to mid-May.

227998. *RAPANEA NERIIFOLIA* Mez. Myrsinaceae.

Col. No. 414. 'Taimintachibana'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Tall evergreen shrub; leaves lanceolate; flowers inconspicuous.

227999. *RHODODENDRON PENTAPHYLLUM* Maxim. Ericaceae. **Fiveleaf azalea.**

Col. No. 429. 'Akibono Trutsuji'. Foot of Mount Ishidzuchi. Elevation 800 meters. Shrub to 3 meters high; flowers pale pink.

228000. *RHODODENDRON QUINQUEFOLIUM* Biss. & Moore **Cork azalea.**

Col. No. 422. 'Shiro-yashio'. Foot of Mount Ishidzuchi. Elevation 1,500 meters. Deciduous shrub to 3 meters high; flowers pure white.

228001. *RHODODENDRON TSCHONOSKII* Maxim. **Tschonoskii azalea.**

Col. No. 430. 'Kome-tsutsuji'. Foot of Mount Ishidzuchi. Elevation 800 meters. Spreading shrub; leaves small, hairy, broad-lanceolate; flowers small, white.

228002 and 228003. *RHODODENDRON WEYRICHII* Maxim. **Weyrichii azalea.**

228002. Col. No. 441. 'Ontsutuji'. Foot of Mount Ishidzuchi.

227974 to 228008—Continued**228002 and 228003—Continued**

228003. Col. No. 423. 'Ontsutsuji'. Foot of Mount Ishidzuchi. Elevation 1,600 meters. Shrub to 3 meters high; flowers brick-red.

228004. RHODODENDRON sp.

Col. No. 440. 'Kome-tsutsuji'. Foot of Mount Ishidzuchi. Small prostrate shrub; leaves ovate; flowers white, small.

228005. ROSA ONOEI Makino Rosaceae. **Rose.**

Col. No. 415. 'Yabu-ibara'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Flowers white, to 4 centimeters across.

228006. RUBUS sp. Rosaceae.

Col. No. 433. Foot of Mount Ishidzuchi. Elevation 800 meters. Subalpine, low-growing, prostrate plant; fruits small, red.

228007. SARCANDRA GLABRA (Makino) Nakai Chloranthaceae.

Col. No. 416. 'Senryo'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Shrub small, to 1 meter high; leaves opposite, coarsely serrate; flowers in spikes. inconspicuous; berries bright red.

228008. VIBURNUM FUCATUM Blume Caprifoliaceae. **Forked viburnum.**

Col. No. 425. 'Okame-noki'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Deciduous, shrubby tree, to 3 meters high; leaves almost orbicular; flowers white; fruits first red, then black.

228009 to 228011.

From Japan. Budwood presented by the Demonstration Garden of Trees and Shrubs. Angyo, Saitama Prefecture. Received Sept. 16, 1955.

228009. PRUNUS SUBHIRTELLA Miq. Amygdalaceae. **Higan cherry.**
'Sendai-Shidare'.**228010 and 228011.** PRUNUS SERRULATA Lindl. **Oriental flowering cherry.**

228010. 'Fukenzo-shidare'.

228011. 'Kiku-shidare'.

228012 to 228021. PYRUS COMMUNIS L. Malaceae. **Pear.**

From Japan. Propagating wood presented by the National Agricultural Research Institute, Hiratsuka, Kanagawa. Received Sept. 19, 1955.

228012 to 228014. Highly resistant to black rot.

228012. 'Doetsu'. ('Nijiseiki' × 'Doetsu').

228013. 'Ishiwase'. ('Nijiseiki' × 'Doetsu').

228014. 'Kikusue'.

228015. 'Kumoe'. ('Ishiwase' × 'Yagumo').

Russet-skin.

228016. 'Nijiseiki'.

228017. 'Seigyoku'.

228018. 'Shinko'. ('Nijiseiki').

Seedling.

228019. 'Shinseiki'. ('Nijiseiki' × 'Cho-ju-ro').

228020. 'Suesee'. ('Kikusui' × 'Yakumo').

Early, green skin.

228021. 'Yagumo'. ('Nijiseiki' × 'Akapo').

- 228022.** *COFFEA ARABICA* L. Rubiaceae. **Arabian coffee.**
 From Nyasaland. Seeds presented by the Department of Agriculture, Bvumbwe
 Tung Agricultural Experiment Station, Limbe.
 Received Sept. 20, 1955.
 Local selection.
- 228023 to 228043.**
 From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction
 Section, Horticultural Crops Research Branch, Beltsville, Md. Received
 Sept. 20, 1955.
 Collected in Sept. 1955.
- 228023.** *AESCULUS TURBINATA* Blume Aesculaceae. **Japanese horsechestnut.**
 Col. No. 419. 'Tochi'. Foot of Mount Ishidzuchi. Elevation 2,600 feet.
 Tree to 4 feet high; flower panicles upright; color whitish; prefers damp situation.
- 228024.** *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**
 Col. No. 447. 'Tsubake'. Korakuen Garden, Okayama-shi.
- 228025 and 228026.** *CAMELLIA SASANQUA* Thunb. **Sasanqua camellia.**
228025. Col. No. 438. 'Sazanka'. Kotohira-cho, Kagawa Prefecture.
228026. Col. No. 448. 'Sazanka'. Korakuen Garden, Okayama-shi.
- 228027.** *CATALPA OVATA* Don Bignoniaceae. **Chinese catalpa.**
 Col. No. 410. 'Kisasage'. Matsuyama Castle, Matsuyama. Tree to 25 feet
 high; leaves cordate; pods slender.
- 228028.** *DIOSCOREA TOKORO* Makino Dioscoreaceae. **Yam.**
 Col. No. 413. Igahi, near Matsuyama, Ehime Prefecture, Shikoku.
- 228029.** *EURYA JAPONICA* Thunb. Theaceae.
 Col. No. 443. 'Hisakaki'. Foot of Mount Ishidzuchi. Elevation 2,600 feet.
 Small evergreen tree; leaves ovate; flowers pale yellow, small; fruits black.
- 228030.** *FAGUS CRENATA* Blume Fagaceae. **Beech.**
 Col. No. 424. 'Buna'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Tree
 to 65 feet high; trunk smooth, bark gray; leaves ovate; fruits edible.
- 228031.** *ILEX GENICULATA* Maxim. Aquifoliaceae. **Droophead holly.**
 Col. No. 426. 'Furin-umenodoki'. Foot of Mount Ishidzuchi. Elevation
 2,600 feet. Deciduous tree; branches pendant; fruits red.
- 228032.** *ILEX ROTUNDA* Thunb. **Holly.**
 Col. No. 445. 'Kuroganemochi'. Korakuen Garden, Okayama-shi. Ever-
 green tree to 8 feet high; leaves ovate, thick, entire; fruits red.
- 228033.** *NANDINA DOMESTICA* Thunb. Berberidaceae.
 Col. No. 439. 'Nanten'. Kotochira-cho, Kagawa Prefecture.
- 228034.** *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. **Japanese pieris.**
 Col. No. 446. 'Asebi'. Korakuen Garden, Okayama-shi.
- 228035.** *QUERCUS GLANDULIFERA* Blume Fagaceae. **Glandbearing oak.**
 Col. No. 437. 'Konara'. Foot of Mount Ishidzuchi. Elevation 2,600 feet.
 Tree to 65 feet high.
- 228036.** *QUERCUS GLAUCA* Thunb. **Blue Japanese oak.**
 Col. No. 449. 'Arakashi'. Korakuen Garden, Okayama-shi. Evergreen tree
 to 48 feet high; leaves coarsely serrate; acorns small.
- 228037.** *RHODODENDRON OBTUSUM* var. *KAEMPFERI* (Planch.) Wilson Ericaceae.
Torch azalea.
 Col. No. 442. 'Yama-tsutsuji'. Foot of Mount Ishidzuchi.

228023 to 228043—Continued

228038. *RHODODENDRON WEYRICHII* Max. **Weyrichii azalea.**

Col. No. 441. Foot of Mount Ishidzuchi.

228039. *SASA ISHIZUCHIANA* Makino Poaceae. **Bamboo.**

Col. No. 427. 'Ishizuchi sasa'. Top of Mount Ishidzuchi. Elevation 6,400 feet. Plant to 4 feet high; leaves dark green, shiny.

228040. *SORBUS COMMIXTA* Hedl. Malaceae. **Korean mountain-ash.**

Col. No. 434. 'Nana Kanado'. Top of Mount Ishidzuchi. Elevation 6,400 feet. Tree to 13 feet high; fruits in umbels, red.

228041. *VACCINIUM CILIATUM* Thunb. Vacciniaceae. **Blueberry.**

Col. No. 444. 'Arage-na-tsu haze'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Small shrub; fruits medium size, black.

228042. *VACCINIUM* sp.

Col. No. 432. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Shrub to 8 inches high; fruit on small peduncle.

228043. *VIBURNUM FURCATUM* Blume Caprifoliaceae. **Forked viburnum.**

Col. No. 425. Foot of Mount Ishidzuchi. Elevation 2,600 feet.

228044 to 228065. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 21, 1955.

228044 to 228063. From K. Matsuoka, Shikoku Agricultural Experiment Station

228044. 'Aka-nita'. **228054.** 'Natsu Daizu'.

228045. 'Ao-ki-mame'. **228055.** 'No-ki No. 1'.

228046. 'Awashima Zairai'. **228056.** 'Oita Akidaizu'.

228047. 'Hana Shirazu'. **228057.** 'O-no Daizu'.

228048. 'Hirochima Kuro-daizu'. **228058.** 'O-ura'.

228049. 'Ka-cho-tuba'. **228059.** 'Shimatsu-ura'.

228050. 'Kino-shita'. **228060.** 'Shiro Dai-hachilin'.

228051. 'Ko-mungo Daizu'. **228061.** 'Shiro-daizu No. 3'.

228052. 'Kochi Akidaizu'. **228062.** 'Shiro-hanasaki No. 1'.

228053. Manchurian native. **228063.** 'Tamana Zairai'.

228064. 'Meguro No. 1'. Nematode resistant.

From Aomori Prefecture Agricultural Experiment Station, Aomori.

228065. 'Yamaguchi-white No. 1'. 'Yamaguchi-shiro'.

From Daizu-Ichigo.

228066 and 228067. *GOSSYPIUM* (hybrids). Malvaceae. **Cotton.**

From Argentina. Seeds presented by the Estacion Experimental, Puerto Peron, Pena Province. Received Sept. 22, 1955.

228066. 'Saenz Pena No. 61'.

228067. 'Saenz Pena No. 85'.

228068 to 228071. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Thailand. Seeds presented by the United States Operations Mission to Thailand, Bangkok. Received Sept. 22, 1955.

Originally collected at Taichung, Taiwan.

228068. 'Taichung No. 2'. **228070.** 'Taichung No. 31'.

228069. 'Taichung No. 29'. **228071.** 'Taichung No. 32'.

228072 and 228073. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From Brazil. Seeds presented by the United States Operations Mission to Brazil, Rio de Janeiro. Received Sept. 22, 1955.

228072. 'Caturra Amarelo'.

228073. 'Mundo Novo'.

228074 and 228075.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 22, 1955.

228074. *QUERCUS* sp. Fagaceae.

Col. No. 15709. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Second growth from cut trees.

228075. *QUERCUS* sp.

Col. No. 15799. Fifty-four miles east of Gorgan. Sept. 15, 1955. Spreading tree to 30 feet high.

228076 to 228148.

From Japan. Obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 22, 1955.

Unless otherwise noted, material received as plants.

228076 to 228081. *FRAGARIA* (hybrids). Rosaceae. **Strawberry.**

From the Ministry of Agriculture and Forestry Research Branch, Special Products Section, Tokyo.

228076. 'Derby'.

228079. 'Marshall'.

228077. 'Fukuba'.

228080. 'Oshima'.

228078. 'Haikaro'.

228081. 'Victoria'.

228082. *CITRUS NIPPOKOREANA* T. Tanaka Rutaceae.

From the Summer Citrus Experiment Station, Hagi City, Yamaguchi. Sept. 12, 1955.

228083 to 228088. From Chiba University, Chiba Prefecture. Sept. 13, 1955.

228083. *PINUS DENSIFLORA* Sieb. & Zucc. Pinaceae. **Japanese red pine.**
'Janome'. Needles white striped.

228084. *PINUS THUNBERGII* Parl. **Japanese black pine.**
'Torafu'. Needles yellow tipped.

228085. *CRYPTOMERIA JAPONICA* var. *ARAUCARIOIDES* Sieb. Pinaceae.

228086 and 228087. *CRYPTOMERIA JAPONICA* (L. f.) D. Don **Common cryptomeria.**

228086. 'Mejilo-sugi'.

228087. 'Ongon-sugi'.

228088. *THUJOPSIS DOLABRATA* (L. f.) Sieb. & Zucc. Pinaceae. **False-arborvitae.**

228089. *RHODODENDRON METTERNICHII* Sieb. & Zucc. Ericaceae. **Leatherleaf rhododendron.**

From H. Yagi, Matsuyama, Eichi Prefecture, Shikoku. Sept. 12, 1955.

228090. *PUNICA GRANATUM* L. Punicaceae. **Pomegranate.**

From K. Nagao, Niitsu, Niigata. Sept. 12, 1955. Dwarf; flowers double, orange.

228091 to 228093. From the Ministry of Agriculture and Forestry, Tokyo. Received Sept. 13, 1955.

228091. *LIGUSTRUM JAPONICUM* var. *ROTUNDFOLIUM* Blume Oleaceae. **Roundleaf Japanese privet.**

228076 to 228148—Continued

228091 to 228093—Continued

228092. *LILIUM HENRYI* Baker Liliaceae. **Henry lily.**
(Bulbs.)

228093. *LYCORIS RADIATA* (L'Her.) Herb. Amaryllidaceae. **Shorttube lycoris.**
'Alba'.

228094. *CRYPTOMERIA JAPONICA* (L. f.) D. Don Pinaceae. **Common cryptomeria.**

From the Demonstration Garden of Trees and Shrubs, Angyo, Saitama Prefecture. Sept. 13, 1955. Holds its green color well during winter. (Plants and cuttings.)

228095 to 228102. *CHRYSANTHEMUM* sp. Asteraceae.

From the Takii Seed Company, Kyoto. Sept. 12, 1955.

228095. 'Fukukumo'. Pink. 228099. 'Shin-mi-sono'. Purple.

228096. 'Hino-maru'. Pink. 228100. 'Shu-o-kan'.

228097. 'Kin-byo-bu'. Yellow. 228101. 'Tai-go-kuden'.

228098. 'Kin-kazan'. Bronze. 228102. 'Tsukasa'.

228103 to 228118. *RHODODENDRON* sp. Ericaceae.

From Toshigi Ken Satsuki Kai, Sumiyashi-cho, Utsunomiya. Received Sept. 12, 1955.

228103. 'Ban-ka'. 228111. 'Kusu-dame'.

228104. 'Ban-ko'. 228112. 'Matsuname'.

228105. 'Hei-ua' (4X). 228113. 'Rei-getsu'.

228106. 'Homare-no-hana' (4X). 228114. 'Seiko-no-tsuki'.

228107. 'Ka-getsu'. 228115. 'Shin-nyo-no-hikare'.

228108. 'Ki-ko-shi'. 228116. 'Shin-nyo-no-tsuki'.

228109. 'Kin-zai'. 228117. 'Soho'.

228110. 'Kotobuki'. 228118. 'Tai-hei'.

228119. *MENTHA ARVENSIS* var. *PIPERASCENS* Makino Menthaceae **Japanese mint.**

'Manyo'. From the Hokkaido Agricultural Experiment Station, Kitami, Hokkaido.

228120. *DIOSPYROS KAKI* L. Diospyraceae. **Oriental persimmon.**

Col. No. 86. From Saiko University, Kyoto. June 9, 1955. Dense-growing, ornamental; pistillate.

228121. *EPIMEDIUM SAGITTATUM* Baker Berberidaceae.

Col. No. 138. From Kobe Experimental Forest, Kobe. June 14, 1955. Low prostrate shrub; ground-cover.

228122. *LAGERSTROEMIA INDICIA* L. Lythraceae. **Crapemyrtle.**

Col. No. 409. 'Shirabana-no-hyaku-jikko'. From a garden at Matsuyama, Shikoku, Sept. 6, 1955. Flowers white.

228123. *MAACKIA AMURENSIS* Rupr. Fabaceae. **Amur maackia.**

Col. No. 81. 'Shidare-enju'. From Saiko University, Kyoto. June, 1955. Weeping.

228124. *TRIPETALEIA PANICULATA* Sieb. & Zucc. Ericaceae.

Col. No. 136. From Rokko-zan, near Kobe. June 14, 1955. Woody shrub.

228076 to 228148—Continued

228125 to 228128. From the Horticultural Field Station, Miimachi, Kurume. Sept. 12, 1955.

228125. *OSMANTHUS HETEROPHYLLUS* (D. Don) P. S. Green Oleaceae. Variegated.

228126. *OSMANTHUS FORTUNEI* Carr.
Variegated.

228127 and 228128 *CRYPTOMERIA JAPONICA* (L. f.) D. Don Pinaceae.
Common cryptomeria.

228127. 'Okino-sugi'. Dwarf; branch tips white.

228128. 'Mejiro-sugi'.

228129 to 228148 From Chinka Garden, Angyo, Saitama Prefecture. Sept. 13, 1955.

228129 to 228138. *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

228129. 'Ara-jishi'. Pink with white blotch; very early.

228130. 'Bokuhan'. Pink with white center; anemone type.

228131. 'Hatsu-arashi'. White, early.

228132. 'Karaito'. Pink, semi-double; cold hardy.

228133. 'Komyo'. Deep pink, single; midseason.

228134. 'Kuro-tsubaki'. Dark red.

228135. 'Shibori-otome'. White, pink striped; full double.

228136. 'Some-kawa'. White with pink stripes; full double.

228137. 'Tagoto-no-tsuki'. White, single; midseason.

228138. 'Tobiri-otome'. White, with pink stripes; full double.

228139 to 228148. *CAMELLIA SASANQUA* Thunb. **Sasanqua camellia.**

228139. 'Beni-suzume'. Pink, small; midseason.

228140. 'Ginryu'. White with blush pink; double.

228141. 'Hana-daijin'.

228142. 'Kan-tsubaki'.

228143. 'Kara-koromo'. Red, double, early.

228144. 'Kinka-zan'. Light pink, irregular and fluted petals.

228145. 'Kyo-nishiki'. White, with pink stripes, single, midseason.

228146. 'Niarumi-gata'. Pink, single, irregular, center large.

228147. 'Sanga-no-tsu'. Pink, with white spots, single, early.

228148. 'Yae-gasumi'. Blush pink, large double.

228149. *JUGLANS REGIA* L. Juglandaceae. **Persian walnut.**

From California. Plants growing at the United States Plant Introduction Station, Chico. Numbered Sept. 26, 1955.

From P. I. 125195. Tree escapes spring frost; bears heavily; nuts mature early; valuable as a parent.

228150 to 228183.

From Iowa. Seeds received by the United States Regional Plant Introduction Station, Ames.

Presented by the Union of Soviet Socialist Republics' farm delegation of 1955. Numbered Sept. 27, 1955.

228150 to 228183—Continued

- 228150 and 228151. *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.
 228150. No. 27113. 'Moscow 287'.
 228151. No. 27149. 'Kubanian 44'.
228152. *MEDICAGO FALCATA* L. Fabaceae. Yellow-flowered alfalfa.
 No. 22506. 'Yellow Kuban'.
228153. *MEDICAGO SATIVA* L. Alfalfa.
 No. 22603. 'Slavonic 31'.
228154. *ONOBRYCHIS TRANSCAUCASICA* Grossh. Fabaceae.
 No. 16616. Received as *O. antasiatica*.
228155. *ONOBRYCHIS ARENARIA* DC. Sandy esparcet.
 No. 19220.
228156. *ONOBRYCHIS VICIAEFOLIA* Scop. Sainfoin.
 No. 16566.
228157. *TRIFOLIUM HYBRIDUM* L. Fabaceae. Alsike clover.
 No. 27245. 'Belyarsk'.
- 228158 to 228162. *TRIFOLIUM PRATENSE* L. Red clover.
 228158. No. 24631. 'Midlerussian'.
 228159. No. 26324. 'Krasnoufimsk 523'.
 228160. No. 27612. 'Zazersk'.
 228161. No. 27618. 'Tolmachsk'.
 228162. No. 30134. 'Pyshminsk'.
228163. *TRIFOLIUM REPENS* L. Whiteclover.
 No. 27799. 'Ygevsk 4'.
- 228164 to 228183. *ZEA MAYS* L. Poaceae. Corn.
 Local varieties.
 228164 and 228165. Rice type.
 228164. No. 5064.
 228165. No. 7183.
- 228166 to 228176. Flint type.
 228166. No. 1628. 228172. No. 8921.
 228167. No. 1630. 228173. No. 10747.
 228168. No. 4905. 228174. No. 11221.
 228169. No. 5010. 228175. No. 11305.
 228170. No. 7792. 228176. No. 11327.
 228171. No. 8084.
- 228177 to 228181. Tooth-shaped type.
 228177. No. 7803. 228180. No. 10712.
 228178. No. 8083. 228181. No. 10749
 228179. No. 9100. (Hybrid.)
- 228182 and 228183. Sugar type.
 228182. No. 1577.
 228183. No. 7086. 'Early pearl'.

228184 to 228202. *CAMELLIA RUSTICANA* Honda Theaceae.

From Japan. Scions collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 27, 1955. Grown at Niigata.

228184. 'Tsugawa'. No. 1. Flowers red, single.
 228185. 'Yamaya'. No. 2. Flowers purplish red.
 228186. 'Yuki-shiro'. No. 3. Flowers white, single.
 228187. 'Yoshida'. No. 4. Flowers red, single, large.
 228188. 'Hatano'. No. 5. Flowers red, single, large.
 228189. 'Hatano'. No. 6. Flowers red, single, large.
 228190. 'Koshiji'. No. 7. Flowers red, single, small.
 228191. No. 8. Flowers red, single, large.
 228192. 'Aga'. No. 9. Flowers pink, single, occasionally appear semidouble.
 228193. No. 10. Flowers purplish pink, incomplete anemone form.
 228194 to 228202. Wild seedling selections.

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|-----------------|-----------------|
| 228194. No. 11. | 228199. No. 16. |
| 228195. No. 12. | 228200. No. 17. |
| 228196. No. 13. | 228201. No. 18. |
| 228197. No. 14. | 228202. No. 19. |
| 228198. No. 15. | |

228203 to 228204.

From Costa Rica. Seeds collected by Bernice Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 27, 1955.

228203. *BEGONIA MULTINERVIA* Liebm. Begoniaceae.

Col. No. 858. River trail in back of Institute Building, Turrialba. July 14, 1955. Succulent shrub.

228204. *BEGONIA ESTRELLENSIS* C. DC.

Col. No. 877. Wooded trail, Finca Moravia. July 18, 1955. Succulent vine, very extensive on tree trunks.

228205. *PANICUM TURGIDUM* Forsk. Poaceae.

From Jordan. Seed presented by Barry C. Park, Wadi. Received Sept. 27, 1955.

228206 to 228227.

From Greece. Seeds obtained through the Agricultural Attache, American Embassy, Athens. Received Sept. 7, 1955.

From Delvinakion, southern Epirus.

228206 to 228218. *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnors
Fabaceae. **California burclover.**

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|----------------|-----------------|
| 228206. No. 1. | 228213. No. 8. |
| 228207. No. 2. | 228214. No. 9. |
| 228208. No. 3. | 228215. No. 10. |
| 228209. No. 4. | 228216. No. 11. |
| 228210. No. 5. | 228217. No. 12. |
| 228211. No. 6. | 228218. No. 13. |
| 228212. No. 7. | |

228219. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae.**Sainfoin.**

228206 to 228227—Continued**228220.** TRIFOLIUM sp. Fabaceae.

No. 1A.

228221. TRIFOLIUM sp.

No. 1.

228222. TRIFOLIUM sp.

No. 2.

228223. TRIFOLIUM sp.

No. 3.

228224. TRIFOLIUM sp.

No. 4.

228225. TRIFOLIUM sp.

No. 5.

228226. TRIFOLIUM sp.

No. 6.

228227. TRIFOLIUM sp.

No. 7.

228228. TRITICUM AESTIVUM L. Poaceae**Common wheat.**

From Germany. Seeds presented by Bayerische Landessaatzuchtanstalt Weihestephan, Freising. Received Sept. 28, 1955.

M-1.

228229. LANSIUM DOMESTICUM Jack Meliaceae.**Langsat.**

From Thailand. Seeds presented by the United States Operations Mission, Bangkok. Received Sept. 28, 1955.

228230. COFFEA ARABICA L. Rubiaceae.**Arabian coffee.**

From Kenya. Seeds presented by the Colony and Protectorate of Kenya, Nairobi. Received Sept. 28, 1955.

K-7.

228231. LUPINUS ALBUS L. Fabaceae.**White lupine.**

From Egypt. Seed presented by the United States Operations Mission, Cairo. Received Sept. 6, 1955.

228232 and 228233. LOTUS CORNICULATUS L. Fabaceae.**Birdsfoot trefoil.**

From Italy. Seeds presented by the Stazione Sperimentale di Praticoltura, Lodi, Milan. Received Sept. 29, 1955.

228232. Local type.**228233.** 'Varere'.**228234 to 228236.**

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Sept. 29, 1955.

228234. SESBANIA BISPINOSA (Jacq.) W. F. Wight Fabaceae.**228235 and 228236.** SESBANIA SESBAN (L.) Merr.**228235.** No. 1.**228236.** No. 1.W. 142.

228237 and 228238. CITRULLUS VULGARIS Schrad. Cucurbitaceae.**Watermelon.**

From Israel. Seeds presented by Plant Introduction Service, Neve-Yaar Experiment Farm, Rehovot. Received Sept. 29, 1955.

228237. 'Malali' (local variety).

228238. 'Malali' (improved form).

228239 to 228244.

From Japan. Obtained from the Kobe Municipal Arboretum, Kobe, by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 29, 1955.

228239. ILEX MONTANA var. MACROPODA (Miquel) Fernald Aquifoliaceae.

Holly.

228240. ILEX SERRATA Thunb.

Finetooth holly.

228241. ILEX SUGEROKII Maxim.

Sugeroki holly.

228242. ILEX sp.

228243. LYONIA NEZIKII Nakai Ericaceae.

228244. RHODODENDRON RETICULATUM D. Don ex G. Don Ericaceae.

Rose azalea.**228245. PRUNUS sp. Amygdalaceae.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 29, 1955.

Col. No. 85. Saiko University Garden, Kyoto. Aug. 15, 1955. Tree to 15 feet high; flowers solitary, pink; fruits yellow.

228246. THEOBROMA CACAO L. Sterculiaceae.**Cacao.**

From Samoa. Fruit presented by the New Zealand Reparation Estates, Apia. Received Sept. 30, 1955.

'Lafi No. 7'.

228247. BEGONIA LIGNESCENS Morton Begoniaceae.

From Costa Rica. Seed collected by B. G. Schubert, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md. Received Sept. 30, 1955.

Col. No. 821. Woods near Convento River, Sonador Farm.

228248 to 228261.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 30, 1955.

228248. COTONEASTER sp. Malaceae.

Col. No. 15713. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Ornamental shrub.

228249 and 228250. CYDONIA OBLONGA Mill. Malaceae.

Common quince.

228249. Col. No. 15140. 'Beh'. Market, Shiraz. June 30, 1955.

Elevation 5,200 feet. Cultivated locally by irrigation.

228250. Col. No. 15820. Market, Babol, Caspian Plain. Sept., 1955. Fruits very large, oblong, well-formed.

228251. FICUS sp. Moraceae.

Col. No. 15717. 'Anjir'. Twelve miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 2,000 feet. Tree dense, spreading; fruits bitter.

228248 to 228261—Continued**228252.** *MALUS SYLVESTRIS* Mill. Malaceae.**Apple.**

Col. No. 15708. 'Sib. Tangli'. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Tree small to medium-size; fruits small.

228253 and 228254. *MALUS SYLVESTRIS* Mill. Malaceae.**Apple.**

228253. Col. No. 15776. Market, Gorgan. Sept. 14, 1955. Fruits pink-cheeked; originally from Mashhad.

228254. Col. No. 15821. Market, Tehran. Sept., 1955. Fruits small; flavor sweet; possibly from Esfahan.

228255. *PRUNUS CERASUS* L. Amygdalaceae.**Sour cherry.**

Col. No. 15739. 'Albaln'. Market, Kalow, Caspian shore. Sept. 13, 1955.

228256. *PRUNUS MAHALEB* L.**Mahaleb cherry.**

Col. No. 15577. Dastana, Chaharmahal. Aug. 25, 1955. Elevation 6,700 feet. Small, tart type. From wild trees in Bakhtiari Mountains.

228257. *PRUNUS* sp.

Col. No. 15711. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Wild type.

228258. *PYRUS* sp. Malaceae.

Col. No. 15576. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Wild tree cultivated in Dastana. Fruits small; seed round; exported for oil.

228259. *ROSA* sp. Rosaceae.

Col. No. 15690. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Shrub densely branched, spreading; flowers white; fruits purplish.

228260. *ROSA* sp.

Col. No. 15802. Alborz Range, between Gorgan and Shahrud. Sept. 15, 1955. Elevation 6,200 feet. Shrub to 6 feet high.

228261. *RUBUS* sp. Rosaceae.

Col. No. 15718. 'Shahtot'. Twelve miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 2,000 feet. Wild blackberry forming large caney bushes.

228262. *MARTYNIA LUTEA* Lindl. Martyniaceae. **Yellow unicornplant.**

From Portugal. Seeds presented by the Botanic Garden, Coimbra. Received Oct. 4, 1955.

228263. *CAJANUS CAJAN* (L.) Druce Fabaceae.**Pigeonpea.**

From Puerto Rico. Seed presented by the Agricultural Experiment Station, Rio Piedras. Received Oct. 4, 1955.

'Gandures Kaki'.

228264 and 228265. *ZINNIA JUNIPERIFOLIA* A. Gray Asteraceae.

From Mexico. Seed presented by the Instituto de Investigacion de Zonas Deserticas, San Luis Potosi. Received Sept. 28, 1955.

228264. No. 1. South of Km. 112 on the highway San Luis Potosi-Antiguo, Morelos.

228265. No. 2. About 25 km. north of Charcas, San Luis Potosi.

228266 to 228273. *SACCHARUM* (hybrids). Poaceae.**Sugarcane.**

From Australia. Cuttings presented by the Sugar Experiment Station, Brisbane, Queensland. Received Oct. 3, 1955.

228266. 51 N. G. 51.**228270.** G 362.**228267.** 51 N. G. 53.**228271.** I 126.**228268.** 51 N. G. 101.**228272.** Q 36.**228269.** 51 N. G. 148.**228273.** Q 57.

228274 to 228297.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 3, 1955.

Collected June to August, 1955.

228274. *AGROPYRON INTERMEDIUM* (Host.) Beauv. Poaceae.

Intermediate wheatgrass.

Col. No. 15561. Near Borugen, Chaharmahal. Perennial grass.

228275. *AGROPYRON* sp.

Col. No. 15565. Mountain southwest of Dastana, Chaharmahal. Elevation 9,500 feet. Perennial with coarse culms.

228276. *AGROPYRON CAESPITOSUM* Koch

Wheatgrass

Col. No. 15586. Twenty-five miles northeast of Shahr-Kord, Chaharmahal. Elevation 8,400 feet. Slender, bushy, xerophytic perennial; heavily browsed.

228277. *AGROPYRON* sp.

Col. No. 15617. Ku Rang, Chaharmahal. Elevation 8,500 feet. Perennial, to 4 feet high.

228278. *ASTRAGALUS* sp. Fabaceae.

Col. No. 15176. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Bushy perennial to 2 feet high.

228279. *ASTRAGALUS* sp.

Col. No. 15196. Eight miles west of Shahr-Kord, Bakhtiarian Country. Elevation 7,000 feet. Prostrate annual herb.

228280. *ASTRAGALUS* sp.

Col. No. 15238. Mountain south of Dastana, south of Shahr-Kord. Elevation 9,000 to 11,000 feet. Low, densely spreading perennial to 2 feet high.

228281 and 228282. *BROMUS TOMENTELLUS* Boiss. Poaceae.

Brome.

228281. Col. No. 16626. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tufted perennial on open rocky slopes.

228282. Col. No. 15627. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Perennial grass.

228283. *CARTHAMUS TINCTORIUS* L. Asteraceae.

Safflower.

Col. No. 15147. 'Gorang'. Market, Shiraz. Elevation 5,200 feet. Used as bread seasoning.

228284. *LINUM USITAISSIMUM* L. Linaceae.

Flax.

Col. No. 15578. Near Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Local variety; susceptible to rust.

228285. *LINUM* sp.

Col. No. 15172. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 Feet. Herb; browsed by sheep.

228286. *LOTUS CORNICULATUS* L. Fabaceae.

Birdsfoot trefoil.

Col. No 15214. Dastana, south of Shahr-Kord. Elevation 5,200 feet.

228287. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

Col. No. 15145. 'Younjina Market, Shiraz. Elevation 5,200 feet.

228288. *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae.

Yellow sweetclover.

Col. No. 15592. Kuh Rang Chaharmahal. Elevation 8,000 feet. Annual weed.

228289. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae.

Sainfoin.

Col. No. 15633. Golpayegan, Arak Province. Elevation 6,000 feet.

228290. *ORYZOPSIS* sp. Poaceae.

Col. No. 15624. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tufted perennial; well liked by animals.

228291. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

Col. No. 15580. Saman, Chaharmahal. Elevation 6,500 feet.

228274 to 228297—Continued

228292. *PISUM SATIVUM* L. Fabaceae. **Garden pea.**

Col. No. 15185. 'Gavdaneh'. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Originally from Bavanat.

228293. *SECALE CEREALE* L. Poaceae. **Rye.**

Col. No. 15240. Dastana, south of Shahr-Kord. Elevation 6,800 feet. A dark-headed type.

228294. *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**

Col. No. 15600. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet.

228295. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

Col. No. 15615. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Cold resistant winter type.

228296. *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bittervetch.**

Col. No. 15186. 'Kesen'. Near Ghaverokh along road to Shahr Kord. Elevation 7,700 feet.

228297. *VICIA SATIVA* L. **Common vetch.**

Col. No. 15243. 'Gharacoreh'. Dastana, south of Shahr-Kord. Elevation 6,700 feet.

228298 and 228299.

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Oct. 4, 1955.

228298. *SESAMUM EKAMBARAMII* Naidu Pedaliaceae.

228299. *SESAMUM PROSTRATUM* Retz.

228300. *STIPA TENACISSIMA* Jusl. Poaceae. **Esparto needlegrass.**

From Algeria. Seed presented by the Service de l'Experimentation Agricole, Maison-Carree. Received Oct. 4, 1955.

228301 to 228306.

From Japan. Seed presented by the Kagawa Agricultural College, Mikicho, Kitagun, Kagawa Prefecture. Received Oct. 4, 1955.

228301 to 228305. *VICIA SATIVA* L. Fabaceae. **Common vetch.**

228301. F₁-1-6.

228304. F₄-8-13.

228302. F₁-5-41.

228305. P₁-1-2.

228303. F₁-6-2.

228306. *VICIA TETRASPERMA* (L.) Moench.

Fourseed vetch.

228307 to 228315. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Germany. Seed presented by the Biologische Bundesanstalt für Land-und Forstwirtschaft, Berlin. Received Oct. 5, 1955.

228307. 'Axminster'.

228312. 'Red Fern Ott'.

228308. 'Carsten V'.

228313. 'Saumur'.

228309. 'Farm I'.

228314. 'Sakminde'.

228310. 'Normandie'.

228315. 'Tu 4'.

228311. 'Pika'.

228316 to 228319.

From Kenya. Seeds presented by Annette Wilbois, Nairobi. Received Oct. 5, 1955.

228316 to 228318. *SORGHUM VULGARE* Pers. Poaceae.

228316 to 228319—Cont nued**228316 to 228318—Continued**

228316. White. Originally from Ambovombe, Madagascar.

228317. Red. Originally from Madagascar.

228318. Red. Originally obtained from Ecole National d'Agriculture, Montpellier, France.

228319. *ZEA MAYS* L. Poaceae.

Corn.

Originally from Ambovombe, Madagascar.

228320. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

From Italy. Seed presented by the Agricultural Attache, American Embassy, Rome. Received Oct. 11, 1955.

'Loro'. Grown in Northern Italy.

228321 to 228329.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

Collected June to September, 1955.

228321. *FICUS* sp. Moraceae.

Col. No. 15828. Kerman Province. A wild type.

228322 and 228323. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae.

Almond.

228322. Col. No. 14976. Bavanat Valley, Fars. Elevation 7,000 to 7,500 feet.

228323. Col. No. 15808. Shahrud, Khorasan Province. Grafted; thin shelled.

228324 and 228325. *PRUNUS ARMENIACA* L.

Apricot.

228324. Col. No. 15282. 'Zordulu'. Kermanshah. Elevation 6,000 feet. Large-fruited variety.

228325. Col. No. 15408. 'Gorban'. Maragheh, Azerbaijan. Elevation 6,300 feet. Local variety; fruits delicious, large, reddish tinged; pits sweet.

228326. *PRUNUS* sp.

Col. No. 15056. 'Bohorach'. Market Fasa, Fars. Limestone slopes. Tree used locally as understock for cultivated varieties. Seeds exported.

228327. *PRUNUS* sp.

Col. No. 15071. 'Arjan'. Market Estavanat, Fars. Elevation 5,900 feet. Trees used locally as understock for cultivated varieties. Seeds exported for oil content.

228328. *PRUNUS* sp.

Col. No. 15073. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Shrubs low, spreading, spiny; bark gray; varying in habit and seed types. Used as understock.

228329. *RUBUS* sp. Rosaceae.

Col. No. 15302. Forty miles north of Kermanshah along road to Sanandaj. Fruits sweet.

228330 to 228332. *PIPER NIGRUM* L. Piperaceae.

Black pepper.

From Thailand. Cuttings presented by the Agricultural Division, International Cooperation Administration, Bangkok. Received Sept. 7, 1955.

228330. 'Ban Kaew'.

228331. 'Pranztee'.

228332. 'Native'.

228333 to 228373.—Continued

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

Collected July and August, 1955, unless otherwise noted.

228333. *AEGILOPS CYLINDRICA* Host. Poaceae. **Joined goatgrass.**

Col. No. 15340. Thirty miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Annual; heads slender, long; about 1 foot high.

228334. *AELUROPUS LITTORALIS* (Gouan) Parl. Poaceae.

Col. No. 15263. Ten miles south of Esfahan along road to Shiraz. Cespitose perennial.

228335. *ALLIUM CEPA* L. Liliaceae. **Onion.**

Col. No. 15372. Maragheh, Azerbaijan. Elevation 6,300 feet. Best local variety.

228336. *ALLIUM* sp.

Col. No. 15457. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. In moist meadow.

228337. *AVENA* sp. Poaceae.

Col. No. 15293. Forty miles north of Kermanshah along road to Sanandaj. Elevation 6,500 feet. Vigorous, large-seeded, wild.

228338. *AVENA* sp.

Col. No. 15482. Sarab, Azerbaijan. Elevation 6,500 feet. Small-stemmed, to 3 feet high.

228339. *AVENA* sp.

Col. No. 15545. Northeast slope of Kuhe Sabalan, Azerbaijan. Elevation 9,500 feet. Plants to 3 feet high.

228340. *BETA VULGARIS* L. Chenopodiaceae. **Common beet.**

Col. No. 15383. Market, Maragheh, Azerbaijan. Elevation 6,300 feet.

228341. *CANNABIS SATIVA* L. Moraceae. **Hemp.**

Col. No. 15387. 'Shah Daneh'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Low-growing variety; seed used for bird food and as a source of oil.

228342. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 15398. Market Maragheh, Azerbaijan. Elevation 6,300 feet.

228343. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

Col. No. 15384. 'Harbusa'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Melon large, oblong; cultivated by irrigation; matures in midsummer.

228344. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

Col. No. 15382. Maragheh, Azerbaijan. Elevation 6,300 feet. Summer type; long; flavor mild.

228345. *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**

Col. No. 15378. Maragheh, Azerbaijan. Elevation 6,300 feet.

228346. *HORDEUM* sp. Poaceae.

Col. No. 15335. Fourteen miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial tough, hard, strong-rooted, cespitose.

228347 and 228348. *HORDEUM VULGARE* L. **Barley.**

228347. Col. No. 15481. Sarab, Azerbaijan. Elevation 6,500 feet. Short-stemmed; irrigated.

228348. Col. No. 15516. Northeast side of Kuhe Savalan, Azerbaijan.

228333 to 228373—Continued

- 228349 and 228350.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
228349. Col. No. 15352. Forty miles north of Sanandaj, Kurdistan. Elevation 8,000 feet. Tall, rank, heavy type.
228350. Col. No. 15553. Market in Ardabil, Azerbaijan. Elevation 6,000 feet. Cultivated.
- 228351.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. **Yellow sweetclover.**
 Col. No. 15337. Twenty-two miles north of Sanandaj, Kurdistan. Winter and spring annual, to about 3 feet high.
- 228352.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**
 Col. No. 15356. Thirty miles south of Saghez, Kurdistan. Elevation 8,000 feet.
- 228353.** *ONOBRYCHIS* sp.
 Col. No. 15274. Five miles north of Kermanshah. Elevation 6,000 feet. Erect and spreading, coarse perennial.
- 228354.** *ONOBRYCHIS* sp.
 Col. No. 15319. Ten miles east of Sanandaj, Kurdistan. Elevation 8,000 feet. Spreading perennial on rocky slope.
- 228355.** *ORYZOPSIS* sp. Poaceae.
 Col. No. 15539. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Fine-leaved perennial; culms slender to 1.5 feet high.
- 228356.** *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**
 Col. No. 15380. Maragheh, Azerbaijan. Elevation 6,300 feet.
- 228357 and 228358.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
228357. Col. No. 15390. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Mixed variety.
228358. Col. No. 15404. 'Lubia'. Market, Maragheh, Azerbaijan. Dark red variety.
- 228359.** *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
 Col. No. 15394. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Long type; white with red top.
- 228360 to 228362.** *SECALE CEREALE* L. Poaceae. **Rye.**
228360. Col. No. 15320. Eleven miles east of Sanandaj, Kurdistan. Elevation 8,500 feet.
228361. Col. No. 15421. Southeast of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet.
228362. Col. No. 15549. Northeast spur of Kuhe Savalan, Azerbaijan. Elevation 8,000 feet.
- 228363.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
 Col. No. 15389. 'Badengah'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Large round variety.
- 228364.** *SORGHUM HALEPENSE* (L.) Pers. Poaceae. **Johnsongrass.**
 Col. No. 15286. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet.
- 228365.** *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**
 Col. No. 14849. Tehran. May 22, 1955. Elevation 4,800 feet.
- 228366 and 228367.** *TRIFOLIUM REPENS* L. **Whiteclover.**
228366. Col. No. 15464. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet.
228367. Col. No. 15529. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet.

228333 to 228373—Continued

228368. *TRIFOLIUM HYBRIDUM* L. **Alsike clover.**

Col. No. 15426. Southeast of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Low-growing, caespitose; heads pink.

228369. *TRIFOLIUM SPADICEUM* L. **Clover.**

Col. No. 15438. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Erect perennial, to 4 feet high; stems leafy; flowers white.

228370. *TRIFOLIUM AMBIGUUM* M. Bieb. **Kura clover.**

Col. No. 15441. Northeast of Kuhe Sahand. Elevation 10,000 feet. Low spreading annual.

228371. *TRIFOLIUM PRATENSE* L. **Red clover.**

Col. No. 15448. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Large, erect, pink-headed type.

228372. *TRIFOLIUM AMBIGUUM* M. Bieb. **Kura clover.**

Col. No. 15509. Northeast slope of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Erect, slender annual, to 1 foot high.

228373. *CORONILLA VARIA* L. Fabaceae. **Crownvetch.**

Col. No. 15351. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Erect to spreading annual; stems to 2 feet high; excellent forage.

228374 to 228380. *THEOBROMA CACAO* L. Sterculiaceae. **Cacao.**

From Costa Rica. Budwood presented by the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Oct. 10, 1955.

228374. U.F. 221. **228378.** U.F. 668.

228375. U.F. 613. **228379.** U.F. 676.

228376. U.F. 650. **228380.** U.F. 677.

228377. U.F. 667.

228381 and 228382.

From Japan. Bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

228381. *DIOSCOREA TOKORO* Makino Dioscoreaceae. **Yam.**

'Hi-Kai'. From K. Kato, Ministry of Agriculture, Tokyo.

228382. *LYCORIS RADIATA* (L'Her.) Herb. Amaryllidaceae. **Shorttube lycoris.**

'Alba'. From Mr. Skurai, Tokyo.

228383 to 228411.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 10, 1955.

Collected July to Sept., 1955.

228383. *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

Col. No. 15316. East of Sanandaj, Kurdistan. Elevation 8,500 feet.

228384. *AGROPYRON* sp. Poaceae.

Col. No. 15161. Kuhe Bavanat, Fars. Elevation 8,000 feet. Bushy perennial; browsed by sheep and goats.

228385. *AGROPYRON* sp.

Col. No. 15183. West of Esfahan, along road to Shahr-Kord. Elevation 8,000 feet. Perennial; browsed by livestock; used as hay.

228383 to 228411—Continued

228386. *AGROPYRON TRICHOPOHORUM* (Link) Richt. **Stiffhair wheatgrass.**

Col. No. 15310. East of Sanandaj, Kurdistan. Elevation 8,500 feet. Cespitose or colonial perennial.

228387. *AGROPYRON* sp.

Col. No. 15328. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Large, leafy clump.

228388. *AGROPYRON* sp.

Col. No. 15330. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Colony of single culms.

228389. *AGROPYRON CAESPITOSUM* Koch **Wheatgrass.**

Col. No. 15334. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Vigorous bunchgrass; apparently unpalatable.

228390. *AGROPYRON* sp.

Col. No. 15499. Nineteen miles west of Ardabil along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Slender, sparsely leaved perennial, growing among rocks.

228391. *AGROPYRON* sp.

Col. No. 15500. West of Ardabil along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Bunchy perennial; growing in dispersed colonies on volcanic slope.

228392. *AGROPYRON* sp.

Col. No. 15517. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Perennial in broomy bunches; browsed by cattle.

228393. *ASTRAGALUS* sp. Fabaceae.

Col. No. 15694. Gach Sar, Alborz Range. Elevation 6,800 feet. Shrub; flowers yellow.

228394. *BROMUS TOMENTELLUS* Boiss. Poaceae. **Brome.**

Col. No. 15191. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. Perennial; good range grass.

228395. *BROMUS TOMENTELLUS* Boiss. **Brome.**

Col. No. 15312. About 20 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Tufted perennial; leaves hairy, curly, long.

228396. *BROMUS MACROSTACHYS* Desf. **Mediterranean brome.**

Col. No. 15339. Twenty-two miles east of Sanandaj, Kurdistan. Elevation 6,700 feet. Spring annual, growing in bottom land.

228397. *BROMUS TECTORUM* L. **Cheatgrass.**

Col. No. 15347. Twenty-two miles east of Sanandaj, Kurdistan. Elevation 6,700 feet. Tall annual, in thick bottom land.

228398. *HELICOTRICHON PRATENSE* (L.) Pilger Poaceae.

Col. No. 15477. East base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Cespitose perennial; stems red; leaves long, thin; sod forming.

228399. *BROMUS COMMUTATUS* Schrad. Poaceae. **Hairy brome.**

Col. No. 15487. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Elevation 8,500 feet. Annual; leafy base.

228400. *BROMUS* sp.

Col. No. 15522. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Tall grass on rocky slope.

228401. *CRATAEGUS* sp. Malaceae.

Col. No. 15710. Twenty-five miles south of Kalow, Caspian slope of Alborz. Spreading shrub; used as understock for apples.

228383 to 228411—Continued

228402. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**

Col. No. 15588. Thirty-three miles northeast of Shahr-Kord. Elevation 7,500 feet.

228403. *ONOBRYCHIS* sp.

Col. No. 15177. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Perennial, bushy, green, leafy; on ungrazed range.

228404 and 228405. *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**

228404. Col. No. 15194. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Tufted perennial; culms vigorous, strong.

228405. Col. No. 15308. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Small, tufted perennial; scattered on slopes.

228406. *STIPA* sp. Poaceae.

Col. No. 15184. Seventy-five miles west of Esfahan, along road to Sahr-Kord. Elevation 8,000 feet. Tufted perennial; browsed by animals.

228407. *STIPA* sp.

Col. No. 15307. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Bushy perennial on slope; leaves long, thin.

228408. *STIPA* sp.

Col. No. 15311. Twenty mile east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial bunchgrass; culms thick.

228409. *STIPA* sp.

Col. No. 15313. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial bunchgrass.

228410. *STIPA* sp.

Col. No. 15315. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial; leaves long, wiry; culms short.

228411. *CORONILLA VARIA* L. Fabaceae. **Crownvetch.**

Col. No. 15255. Perennial in irrigated fields; palatable.

228412 to 229258.

From Arizona, New Mexico, Texas and adjoining areas of Mexico. Grass and legume species collected between the summer of 1953 and the spring of 1955 by the staff members and associates of the Texas Agricultural Experiment Station, College Station, Tex.

Seeds unless otherwise noted.

228412 to 228414. *AGROPYRON SMITHII* Rydb. Poaceae. **Western wheatgrass.**

228412. No. G-1064. Six miles east of Ruidosa, N. Mex. Elevation 6,400 feet.

22841 . No. G-1123. Near Lordsburg, N. Mex.

228414. No. RF-145. Logan Mount, Ariz.

228415. *AGROPYRON* sp.

No. XG-221. Roadside, 10 miles east of Superior, Ariz.

228416. *AGROSTIS ALBA* L. Poaceae. **Redtop.**

No. Y-22. One and nine-tenths miles southeast of Wilcox, road to Dos Cabezas, Cochise County, Ariz. Elevation 4,200 feet.

228417. *ANDROPOGON ALTUS* Hitchc. Poaceae. **Bluestem.**

No. RF-70. Mrs. Mueller's Ranch, about 15 miles north of Marfa, Tex.

228418. *DICHANTHIUM ANNULATUM* (Forsk.) Stapf Poaceae. **Palwan.**

No. RF-615. Collected in Tex., originally from Abu Ghraib Experiment Station, Iraq. Appears to grow all year round; irrigated lawns withstand close cutting.

228412 to 229258—Continued

- 228419 to 228491.** *ANDROPOGON BARBINODIS* Lag. Poaceae. Cane bluestem.
- 228419.** No. G-1002. Fort Stockton, Tex. Elevation 4,500 feet.
- 228420.** No. G-1013. Four miles east of Sierra Blanca, Tex.
Elevation 4,200 feet.
- 228421.** No. G-1015. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.
- 228422 to 228436.** From New Mexico.
- 228422.** No. G-1024. One mile northeast of Organ. Elevation 5,000 feet.
- 228423.** No. G-1038. Two miles north of Alamogordo. Elevation 4,200 feet.
- 228424.** No. G-1052. Five miles southwest of Mescalero. Elevation 5,800 feet. Plants small.
- 228425.** No. G-1053. Five miles southwest of Mescalero. Elevation 5,800 feet. Plants large.
- 228426.** No. G-1065. Six mile east of Ruidosa. Elevation 6,400 feet.
- 228427.** No. G-1073. Five miles west of Hondo. Elevation 5,600 feet. Plants small.
- 228428.** No. G-1082. Twenty-five miles west of Carrozo. Elevation 5,500 feet.
- 228429.** No. G-1087. Five miles south of Socorro. Elevation 4,800 feet.
- 228430.** No. G-1091. Ten miles east of San Antonio. Elevation 5,000 feet.
- 228431.** No. G-1120. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.
- 228432.** No. G-1134. Five miles south of Animas. Elevation 4,600 feet. Nodes short, pubescent.
- 228433.** No. G-1135. Fifteen miles south of Animas. Elevation 4,700 feet. Plants eighteen inches high; nodes short-pubescent.
- 228434.** G-1142. Twenty miles south of Animas. Elevation 4,850 feet.
- 228435.** G-1150. Twenty-five miles south of Animas. Elevation 5,000 feet.
- 228436.** G-1156. Thirty-seven miles south of Animas. Elevation 5,100 feet.
- 228437.** G-1162. Near New Mexico-Arizona State Line, Highway 86. Elevation 3,700 feet.
- 228438 to 228446.** From Arizona.
- 228438.** G-1165. Eighteen miles east of Wilcox. Elevation 4,200 feet.
- 228439.** G-1168. Twelve miles east of Wilcox. Elevation 4,300 feet.
- 228440.** G-1169. Twelve miles east of Wilcox. Elevation 4,300 feet.
- 228441.** G-1212. Seven miles northeast of Tucson. Elevation 2,650 feet.
- 228442.** G-1218. Ten miles northeast of Tucson. Elevation 2,800 feet. Large ring of hair on nodes.
- 228443.** G-1224. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.
- 228444.** G-1238. Forty-four miles southeast of Tucson. Elevation 5,000 feet. Hair on nodes long.
- 228445.** G-1246. Two miles east of Patagonia. Elevation 4,200 feet.
- 228446.** G-1264. Ten miles northeast of Tucson. Mount Lemon Road. Elevation 3,200 feet.

228412 to 229258—Continued**228419 to 228491—Continued****228447 to 228467.** From Mexico.

- 228447.** G-1275. Ten miles south of Nogales, Sonora. Elevation 3,700 feet.
- 228448.** G-1355. Four miles west of Durango City. Elevation 6,300 feet.
Nodes barbed, glumes perforated.
- 228449.** G-1362. Seven miles west of Durango City. Elevation 6,900 feet.
Glumes not perforated.
- 228450.** G-1374. Twelve miles west of Durango City. Elevation 7,400 feet.
Plant to 6 feet high, large rings of hair on nodes.
- 228451.** G-1375. Fourteen miles west of Durango City. Elevation 7,400 feet.
Short hair on nodes.
- 228452.** G-1376. Fourteen miles west of Durango City. Elevation 7,400 feet.
Long hair on nodes.
- 228453.** G-1383. Fourteen miles north of Durango City. Elevation 6,000 feet.
- 228454.** G-1384. Fourteen miles north of Durango City. Elevation 6,000 feet.
- 228455.** G-1390. Fourteen miles north of Durango City. Elevation 6,000 feet.
- 228456.** G-1393. Fifty-five miles north of Durango City. Elevation 5,950 feet.
Pits large.
- 228457.** G-1394. Fifty-five miles north of Durango City. Elevation 5,950 feet.
Pits small. Small ring of hair on nodes.
- 228458.** G-1395. Fifty-five miles north of Durango City. Elevation 5,950 feet.
Plant small; glumes not perforated.
- 228459.** G-1396. Fifty-five miles north of Durango City. Elevation 5,950 feet.
Plant fuzzy.
- 228460.** G-1407. Eighty miles north of Durango City. Elevation 5,900 feet.
- 228461.** G-1431. Ninety-four miles south of Durango City. Elevation 7,300 feet.
Small rings of hair on nodes, pits.
- 228462.** No. G-1434. Ninety-four miles south of Durango City. Elevation 7,300 feet.
Small rings of hair on nodes; no pits.
- 228463.** No. G-1447. Fifty-five miles northeast of Durango City. Elevation 6,600 feet.
Nodes pubescent.
- 228464.** No. G-1464. Ninety-eight miles east of Durango City. Elevation 5,000 feet.
- 228465.** No. G-1483. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
- 228466.** No. G-1493. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet.
Very dry area.
- 228467.** No. G-1503. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet.
Very dry area.
- 228468.** No. G-153A. Spur Ranch, R. Mellard. About 25 miles south of Marfa, Tex. Dry, rocky soil. Elevation 4,500 feet. Recovered from mixture with *Bouteloua gracilis* (P. I. 216934).
- 228469 to 228474.** From Mexico.
- 228469.** No. G-437A. Between Chihuahua and Cuauhtemoe. Recovered from mixture with *Trichachne californica* (P.I. 216629).
- 228470.** No. G-467A. Between Chihuahua and Camargo. Recovered from mixture with *Eriochloa* sp. (P.I. 216416).

228412 to 229258—Continued**228419 to 228491—Continued****228469 to 228474—Continued**

228471. G-471A. Between Chihuahua and Camargo. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216249).
228472. G-665A. South of Monterrey. Elevation 1,800 feet. Recovered from mixture with *Trichachne californica* (P.I. 216642).
228473. G-839A. Between Durango and Torreon. Recovered from mixture with *Bouteloua gracilis* (P.I. 216342).
228474. G-435. Between Chihuahua and Cuauhtemoc.
228475. XG-174. Big Bend National Park Headquarters, Tex. Elevation 4,700 feet. Very gravelly clay loam; clones.
228476. XG-177. Railroad right of way, 10 miles west of Alpine, Tex. Elevation 4,500 feet. Very gravelly clay loam; clones.
- 228477 to 228481. From Arizona.
228477. XG-195. Five miles southeast of Chiricahua National Monument. Elevation 5,000 feet. Clay loam soil.
228478. XG-197. Six miles south of Pearce. Elevation 5,000 feet. Very dry, gravelly, sandy loam soil.
228479. XG-201. Page Ranch, 35 miles north of Tucson. Plant very large, coarse, leafy, vigorous.
228480. XG-202. Page Ranch, 35 miles north of Tucson. Plant typical.
228481. XG-218. Ten miles east of Superior. Elevation 4,700 feet.
228482. XG-245. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.
228483. XG-256. Seven miles west of Ozona, Tex. Elevation 2,500 feet.
228484. RF-46. Near Hensel Park, College Station, Tex.
228485. RF-425. Sabino Canyon Near Tucson, Ariz.
228486. RF-433. Benson, Ariz.
- 228487 to 228490. From Texas.
228487. RF-85. Carrizo Springs.
228488. No. RF-86. Carrizo Springs.
228489. No. RF-54. Eight miles south of Burnet.
228490. No. RF-11. Guy Combs Ranch 24 miles south of Marathon. Sandy soil—overflow land of Maravella Creek.
228491. No. Y-14. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.
- 228492 to 228501. **ANDROPOGON CIRRATUS Hack. Texas bluestem.**
228492. No. G-1158. Thirty-eight miles south of Animas, N. Mex. Elevation 5,150 feet.
- 228493 to 228496. From Arizona.
228493. No. G-1174. Texas Canyon, east of Tucson. Elevation 4,600 feet.
228494. No. G-1239. Forty-four miles southeast of Tucson. Elevation 5,000 feet.
228495. No. G-1250. Six miles east of Patagonia. Elevation 4,400 feet.
228496. No. G-1273. Seventeen miles northeast of Tucson. Elevation 4,800 feet.

228412 to 229258—Continued**228492 to 228501—Continued**

228497 to 228499. From Mexico.

228497. No. G-1350. Along road between Mazatlan and Durango City, Sinaloa. Elevation 2,400 feet.

228498. No. C-1365. Seven miles west of Durango City. Elevation 6,900 feet.

228499. No. C-1426. Seventy-four miles southeast of Durango City. Elevation 8,000 feet.

228500. No. XG-215. Ten miles east of Superior, Ariz.

228501. No. Y-28. One and eight-tenths miles east of Bellota Ranch, Redington Road, Ariz. Elevation 4,300 feet.

228502 and 228503. *ANDROPOGON EDWARDSIANUS* Gould **Merrill bluestem.**

228502. No. 353A. Experiment Station, Marfa, Tex. Recovered from mixture with *Andropogon barbinodis*. (P.I. 216057).

228503. No. RF-437. Range Experiment Station, Sonora, Tex.

228504. *ANDROPOGON EXARISTATUS* (Nash) Hitchc. **Awnless bluestem.**

No. RF-477. Texas City, Galveston County, Tex. Vacant lot near 816 15th Avenue, N.

228505. *ANDROPOGON GERARDII* Vitman. **Big bluestem.**

No. RF-546. N. G. Early Ranch. One mile west of Hunt, Tex.

228506 to 228513. *ANDROPOGON HIRTIFLORUS* (Nees) Kunth. **Bluestem.**

228506 to 228508. From Arizona.

228506. No. G-1259. Six miles east of Patagonia. Elevation 4,400 feet.

228507. No. G-1261. East of Patagonia. Elevation 4,500 feet.

228508. No. G-1274. Twenty miles northeast of Tucson. Elevation 5,600 feet.

228509 to 228513. From Mexico.

228509. No. G-1372. Eight miles west of Durango City. Elevation 7,000 feet.

228510. No. G-1380. Fourteen miles west of Durango City. Elevation 7,400 feet.

228511. No. G-1387. Fourteen miles north of Durango City. Elevation 6,000 feet.

228512. No. G-1429. Ninety-four miles south of Durango City. Elevation 7,300 feet.

228513. No. G-1441. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

228514 to 228517. *ANDROPOGON BARBINODIS* var. *PERFORATUS* (Hack.) Gould **Pinhole bluestem.**

228514. No. G-1144. Twenty-one miles south of Animas, N. Mex. Elevation 4,940 feet.

228515. No. G-1240. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

228516. No. G-1370. Eighty miles west of Durango City, Mexico. Elevation 7,100 feet. Large pinhole.

228517. No. RF-463 Beeville, Bee County, Tex. Plants large and variable.

228518. *ANDROPOGON TERNARIUS* Michx. **Bluestem.**

No. RF-423. Velma, Stephens County, Okla.

228412 to 229258—Continued**228519 to 228540. ANDROPOGON SACCHAROIDES Swartz Silver bluestem.**

228519. No. G-1007. Fort Stockton, Tex. Elevation 4,500 feet.
 228520. No. G-1051. Six miles southwest of Mescalero, N. Mex. Elevation 5,000 feet.
 228521. No. G-1062. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.
 228522. No. G-1075. Five miles west of Hondo, Tex. Elevation 5,600 feet.
 Plant coarse, nodes glabrous.
 228523. No. G-1092. Ten miles east of San Antonio, Tex. Elevation 5,000 feet.

228524 to 228526. From New Mexico.

228524. No. G-1100. Eighteen miles south of Albuquerque. Elevation 4,800 feet.
 228525. No. G-1101. Eighteen miles south of Albuquerque. Elevation 4,800 feet.
 228526. No. G-1104. Socorro. Elevation 4,350 feet. Foliage red.
 228527. No. G-1484. Seventeen miles west of Bermejillo, Durango, Mexico. Elevation 4,000 feet.
 228528. No. G-1555. One hundred and fifty-six miles north of Saltillo, Coahuila, Mexico.
 228529. No. G-1557. Two hundred and nine miles north of Saltillo, Coahuila, Mexico. Elevation 1,700 feet.
 228530. No. G-1571. Sixteen miles east of Laredo, Tex. Elevation 700 feet.
 228531. No. H-V 358A. Haskell, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216959).
 228532. No. G-223A. Between Gallegos and Encinillas, Chihuahua, Mexico. Elevation 5,600 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216219).
 228533. No. G-247A. Two miles south of Alpine, Tex. Elevation 4,800 feet. Recovered from mixture with *Setaria macrostachya* (P.I. 216550).
 228534. No. G-254A. Fourteen miles north of Terlingua, Tex. Elevation 2,800 feet. Very dry mountainside. Recovered from mixture with *Bouteloua breviseta* (P.I. 216807).
 228535. No. G-365A. North of Chihuahua, Mexico. Recovered from mixture with *Bouteloua gracilis* (P.I. 216308).
 228536. No. G-453A. Between Chihuahua and Cuahtemoc, Mexico. Recovered from mixture with *Setaria* sp. (P.I. 216570).
 228537. No. RF-404. Twenty-one miles east of Roswell, Shaves Co., N. Mex.
 228538. No. RF-472. Comfort, Tex.
 228539. No. RF-474. Logan, N. Mex.
 228540. No. RF-39. Roadside farm, one-half mile west of College Station, Tex.

228541 to 228549. ANDROPOGON SCOPARIUS Michx. Little bluestem.

228541. No. RF-90. Burnet, Tex.
 228542. No. RF-179. Cottle County, Tex. Gypsum outcrop; shallow soil.
 228543. No. RF-19. Sonora, Mexico.
 228544 to 228547. From White Sands National Monument, N. Mex.
 228544. No. G-1031. Elevation 3,700 feet.
 228545. No. G-1033. Elevation 3,700 feet.

228412 to 229258—Continued**228541 to 228549—Continued****228544 to 228547—Continued**

228546. No. G-1036. Elevation 3,700 feet.

228547. No. G-1037. Elevation 3,700 feet.

228548. No. G-1109. Five miles southwest of Vaughn, N. Mex.

228549. No. XG-239 White Sands National Monument, 13 miles west of Alamogordo, N. Mex.

228550 and 228551. ANDROPOGON WRIGHTII Hack. Poaceae. Wrights bluestem.

228550. No. G-1366. Seven mile west of Durango City, Mexico. Elevation 6,900 feet.

228551. No. G-1435. Ninety-four miles south of Durango City, Mexico. Elevation 7,300 feet.

228552 to 228555. From New Mexico.**228552. ANDROPOGON sp.**

No. G-1077. Three miles northwest of Hondo. Elevation 5,300 feet. Mixture of types.

228553 and 228554. ANDROPOGON BARBINODIS Lag. Cane bluestem.

228553. No. G-1116. Ten miles west of Deming. Elevation 4,450 feet.

228554. No. G-1121. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet. Nodes glabrous.

228555. ANDROPOGON sp.

No. G-1152. Thirty-five miles south of Animas. Elevation 5,100 feet.

228556 to 228562. From Arizona.**228556. ANDROPOGON sp.**

No. G-1178. Six miles southwest of Tucson. Elevation 2,500 feet.

228557. ANDROPOGON sp.

No. G-1184. Nineteen miles southwest of Tucson. Elevation 3,300 feet.

228558. ANDROPOGON sp.

No. G-1193. Eight miles northwest of Tucson. Elevation 2,700 feet.

228559. ANDROPOGON sp.

No. G-1198. Willow Springs Ranch, Tucson. Elevation 300 feet.

228560. ANDROPOGON sp.

No. G-1210. Seven miles northeast of Tucson. Elevation 2,650 feet. Plant coarse.

228561. ANDROPOGON sp.

No. G-1237. Forty-four miles southeast of Tucson. Elevation 5,000 feet.

228562. ANDROPOGON sp.

No. G-1233. Thirteen miles northeast of Tucson. Elevation 3,950 feet.

228563 to 228580. From Mexico.**228563. ANDROPOGON BREVIFOLIUS Swartz****Bluestem.**

No. G-1308. Mountains northeast of Obregon City, Sonora. Elevation 1,700 feet. An annual.

228564. ANDROPOGON sp.

No. G-1356. Four miles west of Durango City. Elevation 6,500 feet. Nodes without hairs.

228565. ANDROPOGON BARBINODIS Lag.**Cane bluestem.**

No. G-1360. Seven miles west of Durango City. Elevation 6,900 feet. Spikelets small.

228412 to 229258—Continued**228563 to 228580—Continued****228566.** ANDROPOGON sp.

No. G-1361. Seven miles west of Durango City. Elevation 6,900 feet. Plant large; node short-pubescent; glumes perforated.

228567. ANDROPOGON sp.

No. G-1377. Fourteen miles west of Durango City. Elevation 7,400 feet. To 3 feet high; node short-pubescent; glumes perforated.

228568. ANDROPOGON BARBINODIS var. PERFORATUS (Hack.) Gould.**Pinhole bluestem.**

No. G-1386. Fourteen miles north of Durango City. Elevation 6,000 feet. Plants to 2 feet high; nodes short-pubescent; glumes pitted.

228569. ANDROPOGON sp.

No. G-1411. Fifty-six miles south of Durango City. Elevation 6,600 feet. Nodes without hairs.

228570. ANDROPOGON sp.

No. G-1412. Forty-six miles south of Durango City. Elevation 6,600 feet. Large ring of hairs around nodes.

228571. ANDROPOGON sp.

No. G-1413. Fifty-six miles south of Durango City. Elevation 6,600 feet. Small ring of hairs on nodes.

228572. ANDROPOGON sp.

No. G-1432. Ninety-four miles south of Durango City. Elevation 7,300 feet. Small rings of hair around nodes.

228573. ANDROPOGON sp.

No. G-1446. Fifty-five miles northeast of Durango City. Elevation 6,600 feet.

228574. ANDROPOGON sp.

No. G-1461. Seventy-three miles northeast of Durango City. Elevation 6,300 feet. Glumes pitted.

228575. ANDROPOGON sp.

No. G-1462. Seventy-three miles northeast of Durango City. Elevation 6,300 feet. Glumes not pitted.

228576. ANDROPOGON sp.

No. G-1508. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet. Nodes short-pubescent; glumes not pitted.

228577. ANDROPOGON sp.

No. G-1515. Sixty-two miles east of Torreon, Coahuila. Elevation 3,800 feet.

228578. ANDROPOGON sp.

No. G-1533. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet. Nodes short-pubescent; glumes not pitted.

228579. ANDROPOGON sp.

No. G-1541. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.

228580. ANDROPOGON sp.

No. G-1549. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.

228581. ANDROPOGON sp.

No. G-1567. Ten miles northwest of Carrizo Springs, Tex. Elevation 1,000 feet.

228412 to 229258—Continued**228582.** ANDROPOGON sp.

No. G-208A. Five miles north of Shafter, Tex. Elevation 4,700 feet. Recovered from mixture with *Panicum obtusum* (P.I. 216501).

228583. ANDROPOGON sp.

No. G-468A. Between Chihuahua and Carmago, Mexico. Recovered from mixture with *Setaria macrostachya* (P.I. 216559).

228584. ANDROPOGON sp.

No. G-768A. Between Durango and Parral, Mexico. Received from mixture with *Bouteloua gracilis* (P.I. 216334).

228585. ANDROPOGON sp.

No. RF-402. Sandia Mountains, Sandoval County, N. Mex.

228586. ANDROPOGON sp.

No. RF 403. Schole, Socorro County, N. Mex.

228587. ANDROPOGON sp.

No. Y-6. Five miles southwest of Oracle, Pinal County, Ariz. Elevation 4,400 feet.

228588. ARISTIDA HAMULOSA Henr. Poaceae.**Three-awn.**

No. Y-11. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.

228589. ARISTIDA ORCUTTIANA Vasey**Single three-awn.**

No. Y-23. One and eight-tenths miles east of Bellota Ranch, Pima County, Ariz. Elevation 4,300 feet.

228590. ARISTIDA sp.

No. G-42A. Ten miles north of San Angelo, Tex. Elevation 1,900 feet. Recovered from mixture with *Hilaria mutica*. (P.I. 216434).

228591. ARISTIDA sp.

No. 393A. North of Chihuahua, Mexico. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216350).

228592. AVENA SATIVA L. Poaceae.**Common oats.**

No. XG-208. Page Ranch, thirty-five miles north of Tucson, Ariz. Five miles west of Oracle.

228593. BOUTELOUA BREVIS ETA Vasey Poaceae.**Gyp grama.**

No. G-1476. One hundred and thirty-three miles northeast of Durango City, Mexico. Elevation 4,600 feet.

228594 and 228595. BOUTELOUA CHRONDROSOIODES (H.B.K.) Be th. **Spruce grama.**

228594. No. G-1232. Thirty-nine miles southeast of Tucson, Ariz. Elevation 4,200 feet.

228595. No. G-1327. Sierra de Alamos, Sonora, Mexico. Elevation 2,600 feet.

228596 to 228709. BOUTELOUA CURTIPENDULA (Michx.) Torr. **Sideoats grama.**

228596 to 228600. From Texas.

228596. No. G-1006. Fort Stockton. Elevation 4,500 feet. Straw color spikelets.

228597. No. G-1008. Fort Stockton. Elevation 4,500 feet. Spikelets intermediate, purplish.

228598. No. G-1009. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets straw colored.

228599. No. G-1010. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets purple.

228412 to 229258—Continued**228596 to 228709—Continued****228596 to 228600—Continued**

228600. No. G-1011. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets purplish.

228601 to 228627. From New Mexico.

228601. No. G-1022. One mile northeast of Organ. Elevation 5,000 feet. Spikelets straw-colored.

228602. No. G-1025. One mile northeast of Organ. Elevation 5,000 feet. Spikelets purple.

228603. No. G-1027. One mile northeast of Organ. Elevation 5,000 feet. Spikelets purplish.

228604. No. G-1046. Six miles northeast of Tularosa. Elevation 4,900 feet.

228605. No. G-1054. Five miles southwest of Mescalero. Elevation 5,800 feet. Plant purple.

228606. No. G-1057. Five miles southwest of Mescalero. Elevation 5,800 feet. Spikelets purplish.

228607. No. G-1058. Mescalero. Elevation 6,400 feet.

228608. No. G-1060. Six miles east of Ruidoso. Elevation 6,400 feet. Spikelets purple.

228609. No. G-1068. One mile northwest of Hondo. Elevation 5,200 feet. Spikelets straw-colored.

228610. No. G-1069. One mile northwest of Hondo. Elevation 5,200 feet. Spikelets brown.

228611. G-1071. Five miles west of Hondo. Elevation 5,600 feet. Spikelets brown.

228612. No. G-1074. Five miles west of Hondo. Elevation 5,600 feet. Spikelets straw-colored.

228613. No. G-1078. Three miles northwest of Hondo. Elevation 5,300 feet. Spikelets large.

228614. No. G-1079. Three miles northwest of Hondo. Elevation 5,300 feet. Spikelets small.

228615. No. G-1081. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.

228616. No. G-1088. Two miles south of Socorro. Elevation 4,800 feet.

228617. No. G-113. Five miles east of Moriarty. Elevation 6,100 feet.

228618. No. G-1117. Fifteen miles west of Deming. Elevation 4,500 feet. Spikelets straw-colored.

228619. No. G-1118. Fifteen miles west of Deming. Elevation 4,500 feet. Spikelets brown.

228620. No. G-1119. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.

228621. No. G-1131. Five miles south of Animas. Elevation 4,600 feet. Plants purple.

228622. No. G-1132. Five miles south of Animas. Elevation 4,600 feet. Spikelets brown.

228623. No. G-1133. Five miles south of Animas. Elevation 4,600 feet. Spikelets purple.

228624. No. G-1141. Twenty miles south of Animas. Elevation 4,850 feet.

228625. No. G-1146. Twenty-one miles south of Animas. Elevation 4,950 feet. Glumes purplish.

228412 to 229258—Continued**228596 to 228709—Continued****228601 to 228627—Continued**

228626. No. G-1147. Twenty-one miles south of Animas. Elevation 4,950 feet. Plants purple.

228627. No. G-1154. Thirty-five miles south of Animas. Elevation 5,100 feet.

228628 to 228642. From Arizona.

228628. No. G-1164. Eighteen miles east of Wilcox. Elevation 4,200 feet.

228629. No. G-1191. Eight miles northwest of Tucson. Elevation 2,700 feet.

228630. No. G-1196. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets purple.

228631. No. G-1201. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets tan.

228632. No. G-1203. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets small, brown.

228633. No. G-1207. Six miles northeast of Tucson. Elevation 2,600 feet.

228634. No. G-1216. Ten miles northeast of Tucson. Elevation 2,800 feet.

228635. No. G-1226. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

228636. No. G-1243. Forty-four miles southeast of Tucson. Elevation 5,000 feet. Spikelets pale.

228637. No. G-1245. Two miles east of Patagonia. Elevation 4,200 feet. Plant to 5 feet high.

228638. No. G-1257. Six miles east of Patagonia. Elevation 4,400 feet.

228639. No. G-1258. Six miles east of Patagonia. Elevation 4,400 feet. Spikelets brown.

228640. No. G-1267. Thirteen miles northeast of Tucson. Elevation 3,950 feet.

228641. No. G-1268. Thirteen miles northeast of Tucson. Elevation 3,950 feet. Glumes white.

228642. No. G-1271. Seventeen miles northeast of Tucson. Elevation 4,800 feet.

228643 to 228677. From Mexico.

228643. No. G-1286. Near Colorado, Sonora. Elevation 1,200 feet. Spikelets straw-colored.

228644. No. G-1287. Near Colorado, Sonora. Elevation 1,200 feet. Spikelets brownish.

228645. No. G-1292. Seven miles east of Colorada, Sonora. Elevation 1,300 feet. Spikelets brown.

228646. No. G-1293. Twelve miles east of Colorada. Elevation 1,500 feet.

228647. No. G-1328. Sierra de Alamos, Sonora. Elevation 2,600 feet.

228648. No. G-1329. Sierra de Alamos, Sonora. Elevation 2,600 feet.

228649. No. G-1331. Sierra de Alamos, Sonora. Elevation 2,800 feet.

228650. No. G-1358. Four miles west of Durango City. Elevation 6,400 feet.

228651. No. G-1364. Seven miles west of Durango City. Elevation 6,900 feet.

228412 to 229258—Continued**229596 to 228709—Continued****228643 to 228677—Continued**

- 228652.** No. G-1397. Fifty-five miles north of Durango City. Elevation 5,950 feet.
- 228653.** No. G-1408. Eighty miles north of Durango City. Elevation 5,900 feet.
- 228654.** No. G-1414. Fifty-six miles south of Durango City. Elevation 6,600 feet. Large form.
- 228655.** No. G-1419. Fifty-six miles south of Durango City. Elevation 6,600 feet. Small form.
- 228656.** No. G-1430. Ninety-four miles south of Durango City. Elevation 7,300 feet.
- 228657.** No. G-1443. Seventy miles north of Zacatecas City. Elevation 7,400 feet.
- 228658.** No. G-1448. Fifty-five miles northeast of Durango City. Elevation 6,600 feet. Spikelets straw-colored.
- 228659.** No. G-1454. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Spikelets straw-colored.
- 228660.** No. G-1455. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Spikelets brown.
- 228661.** No. G-1458. Seventy-three miles northeast of Durango City. Elevation 6,300 feet.
- 228662.** No. G-1465. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets purple.
- 228663.** No. G-1466. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets straw-colored.
- 228664.** No. G-1467. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets small.
- 228665.** No. G-1473. One hundred and thirty-three miles northeast of Durango City. Elevation 4,600 feet.
- 228666.** No. G-1482. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
- 228667.** No. G-1489. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Very dry mountainside.
- 228668.** No. G-1494. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Very dry area.
- 228669.** No. G-1496. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
- 228670.** No. G-1497. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
- 228671.** No. G-1506. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.
- 228672.** No. G-1532. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.
- 228673.** No. G-1537. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.
- 228674.** No. G-1542. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.

228412 to 229258—Continued**228596 to 228709—Continued****228643 to 228677—Continued**

- 228675.** No. G-1553. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.
- 228676.** No. G-1556 A. One hundred fifty-six miles north of Saltillo, Coahuila. Elevation 1,400 feet.
- 228677.** No. G-1558. Two hundred and nine miles north of Saltillo, Coahuila. Elevation 1,700 feet.
- 228678.** No. H-V-359A. Flat Top Ranch. Twenty-five miles southeast of Haskell, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216960)
- 228679.** No. G-339A. Forty-five miles southeast of Sanderson, Tex. Recovered from mixture with *Pappophorum mucronulatum* (P.I. 216533).
- 228680 to 228684.** From Mexico.
- 228680.** No. G-388A. North of Chihuahua City. Recovered from mixture with *Trichachne californica* (P.I. 216626).
- 228681.** No. G-434A. Between Chihuahua and Cuauhtemoc. Recovered from mixture with *Bouteloua chondrosioides* (P.I. 216201).
- 228682.** No. G-440. Between Chihuahua and Cuauhtemoc. Recovered from mixture with *Bouteloua gracilis* (P.I. 216318).
- 228683.** No. 641A. Municipio de Arteaga. About 15 miles east of Saltillo, Coahuila. Recovered from mixture with *Piptochaetium fimbriatum* (P.I. 216540).
- 228684.** No. G-753A. Between Durango and Parral. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216279).
- 228685 to 228690.** From Texas.
- 228685.** No. H-V-71. Stephens County. (Clone.)
- 228686.** No. H-V-221. Seymour. (Clone.)
- 228687.** No. H-V-263. Paducah. (Clone.)
- 228688.** No. H-V-382. Fifteen miles east and three miles south of Anson. Good recovery from drouth. (Clone.)
- 228689.** No. XG-172. Big Bend National Park Headquarters. Elevation 4,700 feet. (Clone.)
- 228690.** No. XG-178. Ten miles west of Alpine. Elevation 4,500 feet. (Clone.)
- 228691.** No. XG-184. New Mexico A & M College Ranch, Albuquerque, New Mexico. Elevation 4,000 feet. (Clones.)
- 228692.** No. XG-186. Sunmaford Mountain. Elevation 4,500 feet. (Clones.)
- 228693 to 228698.** From Arizona.
- 228693.** No. XG-194. Five miles southeast of Chiricahua National Monument. Elevation 5,000 feet. (Clones.)
- 228694.** No. XG-198. Six miles south of Pearce. Elevation 5,000 feet. (Clones.)
- 228695.** No. XG-203. Thirty-five miles north of Tucson. Elevation 3,200 feet. (Clones.)
- 228696.** No. XG-217. Ten miles east of Superior. Elevation 4,700 feet. (Clones.)
- 228697.** No. XG-224. Ten miles east of Globe. Elevation 3 500 feet. (Clones.)
- 228698.** No. XG-230. Ten miles west of Duncan. Elevation 3,000 feet. (Clones.)

228412 to 229258—Continued**228596 to 228709—Continued**

228699. No. XG-237. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet. (Clones.)

228700. No. XG-243. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet. (Clones.)

228701 to 228707. From Texas.

228701. No. XG-253. Thirty-four miles east of Fort Stockton. Elevation 2,800 feet. (Clones.)

228702. No. XG-255. Seven miles west of Ozona. Elevation 2,500 feet. (Clones.)

228703. No. RF-166. Pasture, nine miles west of Snyder.

228704. No. RF-97. South of Neches River.

228705. No. RF-7. Guy Combs, Jr., Ranch, 24 miles south of Marathon. Sandy soils of creek overflow.

228706. No. RF-121. Nine miles west of Menard.

228707. No. RF-1. Dalhart. Artificial stand maintained for seed production.

228708. No. Y-2. Five miles southwest of Oracle, Pinal County, Ariz. Elevation 4,400 feet.

228709. No. Y-15. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

228710 to 228727. *BOUTELOUA ERIPODA* Torr. Poaceae. **Black grama.**

228710 to 228715. From New Mexico.

228710. No. G-1021. One mile northeast of Organ. Elevation 5,000 feet.

228711. No. G-1090. Three miles south of Socorro. Elevation 4,800 feet.

228712. No. G-1095. Thirty miles west of Carrizozo. Elevation 5,400 feet.

228713. No. G-1110. Five miles southwest of Vaughn. Elevation 5,900 feet.

228714. No. G-1139. Twenty miles south of Animas. Elevation 4,850 feet.

228715. No. G-1149. Twenty-five miles south of Animas. Elevation 5,000 feet.

228716 to 228718. From Arizona.

228716. No. G-1163. Eighteen miles east of Wilcox. Elevation 4,200 feet.

228717. No. G-1208. Six miles northeast of Tucson. Elevation 2,600 feet.

228718. No. G-1227. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

228719 to 228721. Texas.

228719. No. XG-169. Eleven miles west of Sanderson. Elevation 2,800 feet. (Clones.)

228720. No. XG-176. Ten miles west of Alpine. Elevation 4,500 feet. (Clones.)

228721. No. XG-179. Ten miles west of Van Horn. Elevation 4,100 feet. (Clones.)

228722. No. XG-189. Jornada Experimental Range, N. Mex. Elevation 4,900 feet. (Clones.)

228723. No. XG-191. Roadside, 14 from miles Lordsburg, on the Duncan Highway, N. Mex. Elevation 4,300 feet. (Clones.)

228412 to 229258—Continued**228710 to 228727—Continued**

228724 to 228726. From Arizona.

228724. No. XG-200. Page Ranch, 35 miles north of Tucson. Elevation 3,200 feet. (Clones.)

228725. No. XG-226. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet. (Clones.)

228726. No. XG-233. Ten miles west of Duncan. Volcanic soil. Elevation 3,000 feet. (Clone.)

228727. No. XG-236. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet. (Clones.)

228728 to 228731. *BOUTELOUA FILIFORMIS* (Fourn.) Griffiths **Slender grama.**
From Mexico.

228728. No. G-1278. Puerto Conejos, north of Hermosillo, Sonora. Elevation 2,300 feet.

228729. No. G-1279. South of Nogales, Sonora. Elevation 2,300 feet.

228730. No. G-1289. Four miles east of Colorada, Sonora. Elevation 1,400 feet.

228731. No. G-1309. Mountains northeast of Obregon City, Sonora. Elevation 1,700 feet.

228732 to 228779. *BOUTELOUA GRACILIS* (H. B. K.) Lag. **Blue grama.**

228732. No. G-1014. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.

228733 to 228747. From New Mexico.

228733. No. G-1029. One mile northeast of Organ. Elevation 5,000 feet.

228734. No. G-1045. Six miles northeast of Tularosa. Elevation 4,900 feet.

228735. No. G-1047. Six miles southeast of Mescalero. Elevation 5,500 feet.

228736. No. G-1050. Six miles southwest of Mescalero. Elevation 5,500 feet.

228737. No. G-1059. Ruidosa. Elevation 7,000 feet.

228738. No. G-1061. Six miles east of Ruidoso. Elevation 6,400 feet.

228739. No. G-1086. Twenty miles west of Carrizozo. Elevation 5,700 feet.

228740. No. G-1094. Thirty miles west of Carrizozo. Elevation 5,400 feet.

228741. No. G-1105. Thirty miles south of Vaughn. Elevation 6,000 feet.

228742. No. G-1112. Five miles east of Moriarty. Elevation 6,100 feet.

228743. No. G-1114. Twenty miles east of Albuquerque. Elevation 7,550 feet.

228744. No. G-1130. One mile north of Animas. Elevation 4,400 feet.

228745. No. G-1137. Twenty miles south of Animas. Elevation 4,850 feet.

228746. No. G-1155. Thirty-seven miles south of Animas. Elevation 5,100 feet.

228747. No. G-1159. Forty-five miles south of Animas. Elevation 5,300 feet. Plants to two feet high.

228748. No. G-1253. Six miles east of Patagonia, Ariz. Elevation 4,400 feet.

228749. No. G-1262. Near Fort Huachuca, Ariz. Elevation 4,750 feet.
Intergrading with *B. hirsuta*.

228750 to 228766. From Mexico.

228750. No. G-1354. Four miles west of Durango City. Elevation 7,300 feet.

228412 to 229258—Continued**228732 to 228779—Continued****228750 to 228766—Continued**

228751. No. G-1379. Fourteen miles west of Durango City. Elevation 7,400 feet.
228752. No. G-1385. Fourteen miles north of Durango City. Elevation 6,000 feet.
228753. No. G-1401. Fifty-five miles north of Durango City. Elevation 5,950 feet.
228754. No. G-1405. Eighty miles north of Durango City. Elevation 5,900 feet.
228755. No. G-1416. Fifty-six miles south of Durango City. Elevation 6,000 feet.
228756. No. G-1424. Sixty-six miles southeast of Durango City. Elevation 7,700 feet.
228757. No. G-1433. Ninety-four miles south of Durango City. Elevation 7,380 feet.
228758. No. G-1437. Seventy miles north of Zacatecas City. Elevation 7,400 feet.
228759. No. G-1449. Fifty-five miles northeast of Durango City. Elevation 6,600 feet.
228760. No. G-1450. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228761. No. G-1451. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Tall type.
228762. No. G-1452. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228763. No. G-1453. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228764. No. G-1495. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Very dry area.
228765. No. G-1500. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
228766. No. G-1539. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,900 feet.
228767. No. H-V-273-A. Southwest of Guthrie, King County, Tex. Recovered from mixture with *Andropogon saccaroides* (P.I. 216720).
228768. No. G-634-A. Ten miles east of Saltillo, Mexico. Recovered from mixture with *Aristida* sp. (P.I. 21698).
228769. No. G-701-A. Between Durango and Torreon, Mexico. Recovered from mixture with *Stipa* sp. (P.I. 216599).
- 228770 to 228773. From Texas. Clones.**
228770. No. XG-168. Eleven miles west of Sanderson. Elevation 2,800 feet.
228771. No. XG-171. Big Bend National Park Headquarters. Elevation 4,700 feet.
228772. No. XG-175. Ten miles west of Alpine. Elevation 4,500 feet.
228773. No. XG-180. Ten miles west of Van Horn. Elevation 4,100 feet.
228774. No. XG-192. Five miles southeast of Chiricahua National Monument, Ariz. Elevation 5,000 feet. (Clones.)

228412 to 229258—Continued**228732 to 228779—Continued**

228775. No. XG-216. Ten miles east of Superior, Ariz. Elevation 4,700 feet. (Clones.)

228776. No. XG-242. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet. (Clones.)

228777. No. RF-14. Mineral Wells, originally from Harnett Ranch in Palo Pinto County, Texas.

228778. No. RF-83. J. L. Thomas' Ranch, seven miles west of Marfa, Tex. Overflow flat.

228779. No. Y-20. One and nine-tenths miles southeast of Wilcox, Ariz. Elevation 4,200 feet.

228780 to 228808. BOUTELOUA HIRSUTA Lag.**Hairy grama.**

228780. No. G-1000. Experimental pastures, Sonora, Tex. Elevation 2,600 feet.

228781 to 228785. From New Mexico.

228781. No. G-1076. Three miles northwest of Hondo. Elevation 5,300 feet.

228782. No. G-1084. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.

228783. No. G-1107. Five miles southwest of Vaughn. Elevation 5,900 feet.

228784. No. G-1138. Twenty miles south of Animas. Elevation 4,850 feet.

228785. No. G-1157. Thirty-seven miles south of Animas. Elevation 5,100 feet.

228786 to 228790. From Arizona.

228786. No. G-1173. Texas Canyon, east of Tucson. Elevation 4,600 feet.

228787. No. G-1211. Seven miles northeast of Tucson. Elevation 2,650 feet.

228788. No. G-1235. Forty-two miles southeast of Tucson. Elevation 4,750 feet.

228789. No. G-1251. Six miles east of Patagonia. Elevation 4,400 feet.

228790. No. G-1270. Seventeen miles northeast of Tucson. Elevation 4,800 feet.

228791 to 228802. From Mexico.

228791. No. G-1304. Obregon, Sonora. Elevation 900 feet.

228792. No. G-1325. Sierra de Alamos. Elevation 2,600 feet.

228793. No. G-1336. Sierra de Alamos, Sonora. Elevation 3,000 feet.

228794. No. G-1340. Sierra de Alamos, Sonora. Elevation 3,200 feet.

228795. No. G-1381. Fourteen miles west of Durango City. Elevation 7,400 feet.

228796. No. G-1389. Fourteen miles north of Durango City. Elevation 6,000 feet.

228797. No. G-1415. Fifty-six miles south of Durango City. Elevation 6,600 feet.

228798. No. G-1436. Ninety-four miles south of Durango City. Elevation 7,300 feet.

228799. No. G-1438. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

228412 to 229258—Continued**228780 to 228808—Continued****228791 to 228802—Continued**

228800. No. G-1456. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.

228801. No. G-1530. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.

228802. No. G-1538. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,900 feet.

228803 to 228805. From Texas.

228803. No. G-1577. Fifty-five miles east of Laredo. Elevation 800 feet.

228804. No. H-V-100. Merrick Davis Ranch, six miles west of Albany. Recovering from drouth.

228805. No. G-268. Big Bend National Park. Elevation 5,300 feet. Drouth resistant, from Anthony 112 collection.

228806 to 228808. From Arizona.

228806. No. Y-3. Five miles southwest of Oracle. Elevation 4,400 feet.

228807. No. Y-10. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

228808. No. Y-24. One and eight-tenths miles east of Bellota Ranch. Elevation 4,300 feet.

228809 to 228824. *BOUTELLOUA RADICOSA* (Fourn.) Griffiths **Purple grama.**

228809 No. G-1160. Fifty miles southeast of Animas. Elevation 5,500 feet.

228810 to 228817 From Arizona.

228810. No. G-1172. Texas Canyon, east of Tucson. Elevation 4,600 feet.

228811. No. G-1186. Thirty miles southwest of Tucson. Elevation 3,100 feet.

228812. No. G-1206. Six miles northeast of Tucson. Elevation 2,600 feet.

228813. No. G-1221. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

228814. No. G-1231. Thirty-nine miles southeast of Tucson. Elevation 2,400 feet.

228815. No. G-1234. Forty-two miles southeast of Tucson. Elevation 4,700 feet. Robust form.

228816. No. G-1255. Six miles east of Patagonia. Elevation 4,400 feet.

228817. No. G-1263. Ten miles northeast of Tucson. Elevation 3,200 feet.

228818 to 228823. From Mexico.

228818. No. G-1319. Sierra de Alamos, Sonora. Elevation 2,000 feet.

228819. No. G-1341. North of Los Mochis, Sinaloa. Elevation 400 feet.

228820. No. G-1388. Fourteen miles north of Durango City. Elevation 6,000 feet.

228821. No. G-1400. Fifty-five miles north of Durango City. Elevation 5,950 feet.

228822. No. G-1418. Fifty-six miles south of Durango City. Elevation 6,600 feet.

228823. No. G-1445. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

228824. No. Y-25. One and eight-tenths miles east of Bellota Ranch, Redington Road, Pima Co., Ariz. Elevation 4,300 feet.

228412 to 229258—Continued

- 228825 to 228835.** *BOUTELOUA ROTHROCKII* Vasey. **Rothrock grama.**
228825 to 228828. From Arizona.
228825. No. G-1167. Twelve miles east of Wilcox. Elevation 4,300 feet.
228826. No. G-1183. Fifteen miles southwest of Tucson. Elevation 2,950 feet.
228827. No. G-1188. Thirty miles southwest of Tucson. Elevation 3,100 feet.
228828. No. G-1197. Willow Springs Ranch, Tucson. Elevation 3,300 feet.
228829 to 228833. From Mexico.
228829. No. G-1277. Puerto Conejos. North of Hermosillo, Sonora. Elevation 2,300 feet.
228830. No. G-1285. Ten miles southeast of Hermosillo, Sonora. Elevation 800 feet.
228831. No. G-1301. Obregon, Sonora. Elevation 425 feet.
228832. No. G-1314. East of Navojoa, Sonora. Elevation 850 feet.
228833. No. G-1406. Eighty miles north of Durango City. Elevation 5,900 feet.
228834. No. XG-207. Page Ranch, 35 miles north of Tucson, Arizona and five miles west of Oracle. (Clones.)
228835. No. XG-225. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet. (Clones.)
228836. *BOUTELOUA* sp.
 No. G-1032. White Sands National Monument, N. Mex. Elevation 3,700 feet. Near *B. brevisetata*.
228837 to 228840. From Mexico.
228837. *BOUTELOUA* sp.
 No. G-1300. Thirty miles southeast of Guaymas, Sonora. Elevation 50 feet.
228838. *BOUTELOUA* sp.
 No. G-1302. Obregon, Sonora. Elevation 650 feet.
228839. *BOUTELOUA* sp.
 No. G-1307. Obregon, Sonora. Elevation 1,700 feet.
228840. *BOUTELOUA* sp.
 No. G-1545. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.
228841 and 228842. *CATHESTECUM ERECTUM* Vasey & Hack. Poaceae. **Falsegrama.**
228841. No. G-1276 B. Puerto Conejos, north of Hermosillo, Sonora, Mexico. Elevation 2,300 feet.
228842. No. G-1284. Ten miles southeast of Hermosillo, Sonora, Mexico. Elevation 800 feet.
228843 to 228847. *CENCHRUS MYOSUROIDES* H. B. K. Poaceae. **Big sandbar.**
228843. No. G-1420. Fifty-six miles south of Durango City, Mexico. Elevation 6,600 feet.
228844. No. G-1468. One hundred miles northeast of Durango City, Mexico. Elevation 5,000 feet.
228845. No. G-1507. Eighteen miles north of Bermejillo, Durango, Mexico. Elevation 4,000 feet.
228846. No. G-1543. Ten miles north of Saltillo, Coahuila, Mexico. Elevation 4,800 feet.
228847. No. RF-158. Roadside seven miles northeast of Pleasanton, Tex.

228412 to 229258—Continued

- 228848 and 228849. *CHLORIS CHLORIDEA* (Presl) Hitchc. Poaceae. **Buryseed chloris.**
 228848. No. G-1291. Seven miles east of La Colorada, Sonora, Mexico. Elevation 1,300 feet.
 228849. No. G-1305. Northeast of Obregon, Sonora, Mexico. Elevation 1,300 feet.
- 228850 and 228851. *CHLORIS CUCULLATA* Bisch. **Hooded windmillgrass.**
 228850. No. H-V-13. Ten miles north of Stephenville, Tex.
 228851. No. RF-30. R & F Grass Nursery, College Station, Tex.
228852. *CHLORIS LATISQUAMAEA* Nash.
 No. G-1570. Sixteen miles east of Laredo, Tex. Elevation 700 feet.
228853. *COTTEA PAPPOPHOROIDES* Kunth Poaceae. **Cottagrass.**
 No. G-1180. Six miles southwest of Tucson, Ariz. Elevation 2,500 feet.
- 228854 and 228855. *ELYMUS CANADENSIS* L. Poaceae. **Canadian wildrye.**
 228854. No. G-1056. Mescalero, N. Mex. Elevation 6,400 feet.
 228855. No. G-1102. Eighteen miles south of Albuquerque, N. Mex. Elevation 4,800 feet.
- 228856 to 228858. *ELYONURUS BARBICULMIS* Hack. Poaceae.
 228856. No. G-1143. Twenty miles south of Animas, N. Mex. Elevation 4,850 feet.
 228857. No. G-1368. Eight miles west of Durango City, Mexico. Elevation 7,100 feet.
 228858. No. G-1444. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.
228859. *ELYONURUS* sp.
 No. G-1335. Sierra de Alamos, Sonora, Mexico. Elevation 3,150 feet.
228860. *ELYONURUS* sp.
 No. G-1353. Mazatlan—Durango City, Sinaloa, Mexico. Elevation 6,400 feet.
228861. *ELYONURUS* sp.
 No. G-1427. Seventy-four miles southeast of Durango City, Mexico. Elevation 8,000 feet.
228862. *ERAGROSTIS CURVULA* (Schrud.) Nees Poaceae. **Lovegrass.**
 No. RF-273. Amarillo Experiment Station, Amarillo, Tex.
- 228863 to 228872. *ERAGROSTIS INTERMEDIA* Hitchc. **Lovegrass.**
 228863. No. G-1244. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.
 228864. No. G-1272. Seventeen miles northeast of Tucson, Ariz. Elevation 4,800 feet.
 228865. No. G-709 A. Between Torreon and Durango, Mexico. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216356).
 228866. No. G-805 A. Between Durango City and Mazatlan, Mexico. Recovered from mixture with *Andropogon cirratus* (P.I. 216109).
- 228867 to 228872. From Arizona.
 228867. No. XG-209. Page Ranch, thirty-five miles north of Tucson. Elevation 3,200 feet. (Clones.)
 228868. No. XG-219. Ten miles east of Superior. Elevation 4,700 feet. (Clones.)

228412 to 229258—Continued**228863 to 228872—Continued****228867 to 228872—Continued**

228869. No. Y-7. Wet Canyon, Swift Trail. Elevation 6,300 feet.

228870. No. Y-12. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

228871. No. Y-29. One and eight-tenths miles east of Bellota Ranch, Redington Road. Elevation 4,300 feet.

228872. No. Y-33. One mile west of Montezuma Canyon. Elevation 4,800 feet.

228873. *ERAGROSTIS TRICHODES* (Nutt.) Wood.

Lovegrass.

No. H-V-343. George Studds Farm, one mile north of Knox City, Texas. From planting made by SCS in 1951. Good survival and recovery from drouth. (Clone.)

228874. *ERAGROSTIS* sp.

No. G-1128. One mile north of Animas, N. Mex. Elevation 4,400 feet.

228875. *ERAGROSTIS* sp.

No. G-1428. Seventy-four miles southeast of Durango City, Mexico. Elevation 8,000 feet.

228876. *ERAGROSTIS* sp.

No. G-1547. Seventy-five miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.

228877. *ERAGROSTIS* sp.

No. G-179A. Base of rock pile, Davis Mountains, Tex. Elevation 6,000 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216218).

228878. *ERIANTHUS* sp. Poaceae.

No. XG-222. Ten miles east of Superior, Ariz. Plant to three feet high, coarse, large plume type head. Elevation 4,700 feet. (Clones.)

228879. *ERIOCHLOA GRACILIS* (Fourn.) Hitchc. Poaceae. **Southwestern cupgrass.**

No. XG-257. Seven miles west of Ozona, Tex. Elevation 2,500 feet. (Clones.)

228880. *ERIOCHLOA SERICEA* (Scheele) Munro.

Texas cupgrass.

No. H-V-352. Haskell.

228881. *DIGITARIA ISCHAEMUM* (Schreb.) Muhl. Poaceae.

Smooth crabgrass.

No. G-1242. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

228882. *ERIOCHLOA* sp. Poaceae.

No. G-1342. One mile east of Mazatlan, Sinaloa, Mexico. Elevation 50 feet.

228883. *FESTUCA* sp. Poaceae.

No. G-1320. Sierra de Alamos, Sonora, Mexico. Elevation 2,300 feet.

228884 to 228889. *HETEROPOGON CONTORTUS* (L.) Beauv. ex Roem. & Schult. Poaceae. **Tanglehead.**

228884 to 228889. From Arizona.

228884. No. G-1176. Texas Canyon, east of Tucson. Elevation 4,600 feet.

228885. No. G-1187. Thirty miles southwest of Tucson. Elevation 3,100 feet.

228886. No. G-1190. Eight miles northwest of Tucson. Elevation 2,700 feet.

228887. No. G-1219. Eleven miles northeast of Tucson. Elevation 3,100 feet.

228888. No. G-1233. Thirty-nine miles southeast of Tucson. Elevation 4,200 feet.

228889. No. G-1625. Ten miles northeast of Tucson. Elevation 3,200 feet.

228412 to 229258—Continued**228884 to 228909—Continued****228890 to 228906.** From Mexico.**228890.** No. G-1276 A. Puerto Conejos. North of Hermosillo, Sonora. Elevation 2,300 feet.**228891.** No. G-1290. Four miles east of La Colorada, Sonora. Elevation 1,400 feet.**228892.** No. G-1294. Ten miles east of La Colorada, Sonora. Elevation 1,450 feet.**228893.** No. G-1311. Mountains east of Navojoa. Elevation 700 feet.**228894.** No. G-1317. Sierra de Alamos, Sonora. Elevation 2,000 feet.**228895.** No. G-1324. Sierra de Alamos, Sonora. Elevation 2,600 feet.**228896.** No. G-1391. Fourteen miles north of Durango City. Elevation 6,000 feet.**228897.** No. G-1399. Fifty-five miles north of Durango City. Elevation 5,950 feet.**228898.** No. G-1404. Sixty miles north of Durango City. Elevation 6,000 feet.**228899.** No. G-1472. One hundred and fourteen miles northeast of Durango City. Elevation 4,700 feet.**228900.** No. G-1477. One hundred and thirty-three miles northeast of Durango City. Elevation 4,600 feet.**228901.** No. G-1485. Seventeen miles west of Bermejillo, Durango. Elevation 4,100 feet.**228902.** No. G-1523. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.**228903.** No. G-1546. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.**228904.** No. G-1554. Seventy-nine miles north of Saltillo. Elevation 4,000 feet.**228905.** No. G-1556. One hundred miles north of Saltillo, Coahuila. Elevation 1,500 feet.**228906.** No. G-1560. Two hundred and seventeen miles north of Saltillo. Elevation 1,900 feet.**228907.** No. G-1575. Twenty miles east of Laredo, Tex. Elevation 800 feet.**228908.** No. G-1576. Fifty-five miles east of Laredo, Tex. Elevation 800 feet.**228909.** No. Y-5. Five miles southwest of Oracle, Pinal Co., Ariz. Elevation 4,400 feet.**228910.** *HETEROPOGON* sp. Poaceae.

No. G-1310. Mountains northeast of Obregón City, Sonora, Mexico. Elevation 1,700 feet.

228911. *HETEROPOGON MELANOCARPUS* (Ell.) Benth. Poaceae.**Sweet tanglehead.**

No. G-1312. Mountains east of Navojoa, Sonora, Mexico. Elevation 700 feet.

228912. *HETEROPOGON* sp.

No. G-1322. Sierra de Alamos, Sonora, Mexico. Elevation 2,300 feet.

228913. *HETEROPOGON* sp.

No. G-1338. Sierra de Alamos, Sonora, Mexico. Elevation 3,150 feet.

228914. *HETEROPOGON CONTORTUS* (L.) Beauv. ex Roem & Schult. **Tanglehead.**

No. G-1339. Sierra de Alamos, Sonora, Mexico. Elevation 3,200 feet.

228412 to 229258—Continued**228915.** HETEROPOGON sp.

No. G 1345. Mazatlan—Durango City, Sinaloa, Mexico. Elevation 450 feet.

228916 to 228923. HILARIA BELANGERI (Steud.) Nash Poaceae. **Curlymesquite.**

228916. No. G-1225. Twenty-three miles southeast of Tucson, Ariz. Elevation 3,600 feet.

228917. No. G-1230. Thirty-nine miles southeast of Tucson, Ariz. Elevation 4,200 feet.

228918. No. G-1254. Six miles east of Patagonia, Ariz. Elevation 4,400 feet.

228919. No. G-1402. Fifty-five miles north of Durango City, Mexico. Elevation 5,950 feet.

228920. No. H-V-11. Ten miles north of Stephenville, Tex. Surviving under dry conditions on thin soil.

228921. No. H-V-355. Haskell.

228922. No. XG-204. Page Ranch, 35 miles north of Tucson, Ariz. Plants large, bunchy, scattered.

228923. No. XG-231. Ten miles west of Duncan, Ariz. Plant bunchy; only one in area. Elevation 3,000 feet. (Clones.)

228924 to 228930. HILARIA JAMESII (Torr.) Benth.**Galleta.**

228924. No. G-1043. Six miles northeast of Tularosa, N. Mex. Elevation 4,900 feet.

228925. No. G-1085. Twenty miles west of Carrizozo, N. Mex. Elevation 5,700 feet.

228926. No. G-1093. Fifteen miles east of San Antonio, Tex. Elevation 5,050 feet.

228927. No. G-1106. Thirty miles south of Vaughn, N. Mex. Elevation 6,000 feet.

228928. No. G-1115. Twenty miles east of Albuquerque, N. Mex. Elevation 7,550 feet.

228929. No. XG-199. Six miles south of Pearce, Ariz. Elevation 5,000 feet.

228930. No. XG-232. Ten miles west of Duncan, Ariz. Elevation 3,000 feet.

228931 to 228950. HILARIA MUTICA (Buckl.) Benth.**Tobosa.**

228931. No. G-1115a. Thirty-five miles east of Deming, N. Mex. Elevation 4,400 feet.

228932. No. G-1124. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets white.

228933. No. G-1125. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets brown.

228934. No. G-1126. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets purple.

228935. No. G-1127. One mile north of Animas, N. Mex. Elevation 4,400 feet. Extra large form.

228936. No. G-1229. Thirty-seven miles southeast of Tucson, Ariz. Elevation 4,050 feet.

228937. No. G-1479. Nine miles west of Bermejillo, Durango, Mexico. Elevation 4,000 feet.

228938. No. G-1505. Eighteen miles north of Bermejillo, Mexico. Elevation 4,000 feet.

228412 to 229258—Continued**228931 to 228950—Continued**

- 228939.** No. G-1514. Thirty-eight miles north of Bermejillo, Mexico. Elevation 3,900 feet. Very dry area.
- 228940.** No. G-1518. Sixty-two miles east of Torreón, Coahuila, Mexico. Elevation 3,800 feet.
- 228941.** No. XG-170. Eleven miles west of Sanderson, Tex. Elevation 2,800 feet.
- 228942.** No. XG-181. Ten miles west of Van Horn, Tex. Elevation 4,100 feet.
- 228943.** No. XG-188. Jornada Experimental Range, N. Mex. Two miles northwest of South Well. Elevation 4,000 feet. (Clones.)
- 228944.** No. XG-190. Fourteen miles from Lordsburg, N. Mex. Elevation 4,300 feet.
- 228945.** No. XG-229. Twenty miles east of Safford, Ariz. Elevation 3,000 feet.
- 228946.** No. XG-241. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet.
- 228947.** No. XG-247. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.
- 228948.** No. XG-250. Twenty-five miles southeast of Pecos, Tex. Elevation 2,800 feet.
- 228949.** No. XG-252. Thirty-four miles east of Fort Stockton, Tex. Elevation 2,800 feet.
- 228950.** No. Y-16. One mile north of Cochise County line, Ariz. Elevation 4,000 feet.

228951 and 228952. *HILARIA RIGIDA* (Thurb.) Benth.**Big galleta.**

228951. No. XG-212. Pinnacle Peak Store, Ariz. Twenty-one miles northeast of Scottsdale. Plants large, bushlike, coarse; found only in protected area. Elevation 1,000 feet.

228952. No. XG-214. Pinnacle Peak Store, Ariz., 21 miles northeast of Scottsdale. Elevation 1,000 feet.

228953. *HILARIA SWALLENII* Cory

No. G-1151. Thirty-five miles south of Animas, N. Mex. Elevation 5,100 feet.

228954. *HILARIA* sp.

No. G-1214. Seven miles northeast of Tucson, Ariz. Elevation 2,650 feet.

228955. *HILARIA* sp.

No. G-1344. Mazatlán, Sinaloa, Mexico. Elevation 400 feet.

228956. *HILARIA* sp.

No. G-1373. Ten miles west of Durango City, Mexico. Elevation 7,400 feet.

228957. *LASIACIS DIVARICATA* (L.) Hitchc. Poaceae.**Florida tibisee.**

No. G-1323. Sierra de Álamos, Sonora, Mexico. Elevation 2,300 feet. Plant to five feet high.

228958 to 229002. *LEPTOCHLOA DUBIA* (H.B.K.) Nees Poaceae.**Green sprangletop.****228958 to 228960.** From New Mexico.

228958. No. G-1026. One mile northeast of Organ. Elevation 500 feet.

228959. No. G-1072. Five miles west of Hondo. Elevation 5,600 feet.

228960. No. G-1161. Fifty miles southeast of Animas. Elevation 5,500 feet.

228412 to 229258—Continued

228958 to 229002—Continued

228961 to 228967. From Arizona.

228961. No. G-1166. Fifteen miles east of Wilcox. Elevation 4,300 feet.
 228962. No. G-1171. Texas Canyon, east of Tucson. Elevation 4,600 feet.
 228963. No. G-1204. Willow Springs Ranch, Tucson. Elevation 3,300 feet.
 228964. No. G-1217. Ten miles northeast of Tucson. Elevation 2,800 feet.
 228965. No. G-1220. Eleven miles southeast of Tucson. Elevation 3,100 feet.
 228966. No. G-1222. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.
 228967. No. G-1247. Two miles east of Patagonia. Elevation 4,200 feet. Plant to four feet high.

228968 to 228979. From Mexico.

228968. No. G-1357. Four miles west of Durango City. Elevation 6,400 feet.
 228969. No. G-1392. Fourteen miles north of Durango City. Elevation 6,000 feet.
 228970. No. G-1398. Fifty-five miles north of Durango City. Elevation 5,950 feet.
 228971. No. G-1410. Eighty miles north of Durango City. Elevation 5,900 feet.
 228972. No. G-1421. Fifty-six miles south of Durango City. Elevation 6,600 feet.
 228973. No. G-1457. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
 228974. No. G-1459. Fifty-three miles northeast of Durango City. Elevation 6,300 feet.
 228975. No. G-1487. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Dry mountain side.
 228976. No. G-1535. Twenty miles southwest of Saltillo, Coahuila. Elevation 6,300 feet.
 228977. No. G-1544. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.
 228978. No. G-1550. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.
 228979. No. G-1501. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Dry area.
 228980. No. G-59-A. Big Spring State Park, Tex. Recovered from mixture with *Stipa leucotricha* (P.I. 217312).
 228981. No. G-179-B. Base of rock pile, Davis Mountains, Ariz. Elevation 6,000 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216218).
 228982. No. G-207-A. Five miles north of Shafter, Tex. Recovered from mixture with *Heteropogon contortus* (P.I. 217098).
 228983. No. G-229-A. Thirty-nine miles north of Chihuahua City, Mexico. Elevation 4,900 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216220).
 228984. No. G-249-A. Nine miles south of Alpine, Tex. Elevation 4,800 feet. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216345).
 228985. No. G-313-A. Camino de la Sierra de Arteaga, 15 miles southeast of Saltillo, Mexico. Elevation 5,000 feet. Recovered from mixture with *Stipa* sp. (P.I. 216590).

228412 to 229258—Continued

228958 to 229002—Continued

- 229886.** No. G-350-A. Experiment Station, Marfa, Tex. Recovered from mixture with *Hilaria swallenii* (P.I. 216438).
- 228987 to 228995.** From Mexico.
- 228987.** No. G-389-A. North of Chihuahua City. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216349).
- 228988.** No. G-415-A. North of Chihuahua City. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216240).
- 228989.** No. G-444-A. Between Chihuahua City and Cuauhtemoc. Recovered from mixture with *Eragrostis* sp. (P.I. 216409).
- 228990.** No. G-455-A. Recovered from mixture with *Andropogon wrightii* (P.I. 216149).
- 228991.** No. G-520-A. North of Durango City. Recovered from mixture with *Panicum obtusum* (P.I. 216509).
- 228992.** No. G-535-A. South of Durango City. Recovered from mixture with *Andropogon wrightii* (P.I. 216151).
- 228993.** No. G-552-A. South of Durango City. Recovered from mixture with *Chloris* sp. (P.I. 216285).
- 228994.** No. G-715-A. Between Durango City and Zacatecas City. Recovered from mixture with *Andropogon* sp.
- 228995.** No. G-764-A. Between Durango and Parral. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216280).
- 228996.** No. XG-196. Five miles southeast of Ciricahua National Monument, Arizona. Elevation 5,000 feet.
- 228997.** No. XG-258. Seven miles west of Ozona, Texas. Elevation 2,500 feet.
- 228998.** No. RF-79. Ten miles north of Alpine, Texas.
- 228999.** No. RF-20. Sonora, Mexico.
- 229000 to 229002.** From Arizona.
- 229000.** No. Y-1. Five miles southwest of Oracle, Pinal County. Elevation 4,400 feet.
- 229001.** No. Y-31. One mile west of Montezuma Canyon. Elevation 4,800 feet.
- 229002.** No. Y-32. One mile west of Montezuma Canyon. Elevation 4,800 feet.
- 229003.** *LEPTOCHLOA* sp. Poaceae.
No. G-1297. Twenty-nine miles southeast of Guaymas, Sonora, Mexico. Elevation 20 feet.
- 229004 and 229005.** *LEPTOLOMA COGNATUM* (Schult.) Chase Poaceae.
Fall witchgrass.
- 229004.** No. H-V-12. Ten miles north of Stephenville, Tex.
- 229005.** No. H-V-364. Haskell, Tex.
- 229006 and 229007.** *LYCURUS PHLEOIDES* H.B.K. Poaceae.
- 229006.** No. Y-8. Wet Canyon, Ariz. Elevation 6,300 feet.
- 229007.** No. Y-27. One and eight-tenths miles east of Bellota Ranch, Ariz. Elevation 4,300 feet.
- 229008 to 229010.** *MUHLENBERGIA EMERSLEYI* Vasey Poaceae. **Muhly.**
From Texas.

228412 to 229258—Continued**229008 to 229010—Continued**

229008. No. RF-71. Mrs. Mueller's Ranch, 17 miles north of Marfa.

229009. No. Y-4. Five miles southwest of Oracle, Pinal County. Elevation 4,400 feet.

229010. No. Y-9. Wet Canyon Trail, Graham Mountains. Elevation 6,300 feet.

229011 to 229036. *MUHLENBERGIA PORTERI* Scribn.**Bushy muhly**

229011. No. G-1001. Fort Stockton, Tex. Elevation 4,500 feet.

229012. No. G-1030. One mile northeast of Organ, N. Mex. Elevation 5,000 feet.

229013. No. G-1080. Twenty-five miles west of Carrizozo, N. Mex. Elevation 5,500 feet.

229014 to 229018. From Arizona.

229014. No. G-1182. Fifteen miles southwest of Tucson. Elevation 2,950 feet.

229015. No. G-1194. Eight miles northwest of Tucson. Elevation 2,700 feet.

229016. No. G-1200. Willow Springs Ranch, Tucson. Elevation 3,300 feet.

229017. No. G-1213. Seven miles northwest of Tucson. Elevation 2,650 feet.

229018. No. G-1228. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

229019 to 229024. From Mexico.

229019. No. G-1321. Sierra de Álamos, Sonora. Elevation 2,300 feet.

229020. No. G-1359. Four miles west of Durango City. Elevation 6,400 feet.

229021. No. G-1469. One hundred miles northeast of Durango City. Elevation 5,000 feet.

229022. No. G-1475. One hundred and thirty-seven miles northeast of Durango City. Elevation 4,600 feet.

229023. No. G-1486. Seventeen miles west of Bermejillo, Durango. Elevation 4,100 feet.

229024. No. G-1492. Fifty-four miles west of Beremejillo. Elevation 5,200 feet. Dry area.

229025. No. XG-173. Headquarters, Big Bend National Park, Tex. Elevation 4,700 feet.

229026. No. XG-182. A & M College Ranch, Albuquerque, N. Mex. Elevation 3,500 feet.

229027 to 229031. From Arizona.

229027. No. XG-205. Page Ranch, 35 miles north of Tucson. Elevation 3,200 feet.

229028. No. XG-211. Fifteen miles south of Florence. Sandy-loam soil. Elevation 2,000 feet.

229029. No. XG-213. Pinnacle Peak store, 21 miles northeast of Scottsdale. Elevation 1,000 feet.

229030. No. XG-223. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet.

229031. No. XG-228. Twenty miles east of Safford. Sandy-loam soil. Elevation 3,000 feet.

228412 to 229258—Continued**229011 to 229036—Continued**

- 229032.** No. XG-238. Thirty-five miles northeast of Las Cruces, New Mexico. Gravelly-loam soil. Elevation 4,500 feet.
- 229033.** No. XG-26. Thirty-five miles southeast of Carlsbad. Clay-loam soil. Elevation 3,000 feet.
- 229034.** No. XG-249. Twenty-five miles southeast of Pecos, Texas. Clay-loam soil. Elevation 2,800 feet.
- 229035.** No. XG-254. Thirty-four miles east of Ft. Stockton, Texas. Elevation 2,800 feet.
- 229036.** No. Y-18. Three and four-tenths miles south of Graham County line, Arizona. Elevation 4,000 feet.
- 229037.** *MUHLENBERGIA RIGIDA* (H.B.K.) Kunth **Purple muhly.**
No. G-1363. Seven miles west of Durango City, Mexico. Elevation 6,900 feet.
- 229038.** *MUHLENBERGIA* sp.
No. G-1369. Eight miles west of Durango City, Mexico. Elevation 7,100 feet.
- 229039.** *MUHLENBERGIA* sp.
No. G-1378. Fourteen miles west of Durango City, Mexico. Elevation 7,400 feet.
- 229040.** *MUHLENBERGIA* sp.
No. G-1382. Fourteen miles west of Durango City. Elevation 7,400 feet.
- 229041.** *CENCHRUS MYOSUROIDES* H.B.K. **Big sandbur.**
No. G-1422. Sixty-six miles southeast of Durango City, Mexico. Elevation 7,700 feet.
- 229042.** *MUHLENBERGIA* sp.
No. G-1460. Seventy-three miles northeast of Durango City, Mexico. Elevation 6,300 feet.
- 229043.** *MUHLENBERGIA* sp.
No. G-1528. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.
- 229044.** *MUHLENBERGIA* sp.
No. G-1534. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.
- 229045 and 229046.** *ORYZOPSIS HYMENOIDES* (Roem. & Schult.) Ricker **Poaceae.**
Indian ricegrass.
- 229045.** No. G-1108. Five miles southwest of Vaughn, N. Mex. Elevation 5,900 feet.
- 229046.** No. XG-240. White Sands National Monument, N. Mex., 13 miles west of Alamogordo. Growing in pure sand. Elevation 4,500 feet.
- 229047.** *ORYZOPSIS* sp.
No. G-1425. Sixty-six miles southeast of Durango City, Mexico. Elevation 7,700 feet.
- 229048.** *ORYZOPSIS* sp.
No. G-1440. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.
- 229049 to 229056.** *PANICUM HALLII* Vasey **Poaceae.**
- 229049.** No. G-1148. Twenty-one miles south of Animas, N. Mex. Elevation 4,940 feet.
- 229050.** No. G-1498. Sixty-seven miles west of Bermejillo, Durango, Mexico. Elevation 6,400 feet. Dry area.
- 229051.** No. G-1566. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.

228412 to 229258—Continued**229049 to 229056—Continued**

229052. No. G-1568. Sixteen miles east of Laredo, Mexico. Elevation 700 feet.

229053 to 229056. From Texas.

229053. No. H-V-205-A. Nine miles south of Seymour, Baylor County. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216870).

229054. No. H-V-354-A. Haskell. Recovered from mixture with *Sporobolus airoides* (P.I. 217303).

229055. No. H-V-372. Knox Pittard Ranch, nine miles east and one mile north of Anson.

229056. No. G-256. North of Eggshell Peak, 15 miles north of Terlingua. Elevation 2,800 feet

229057 to 229081 PANCIUM OBTUSUM H.B.K. Vine-mesquite.

229057. No. G-1005. Fort Stockton, Tex. Elevation 4,500 feet.

229058. No. G-1016. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.

229059. No. G-1028. One mile northeast of Organ, N. Mex. Elevation 500 feet.

229060. No. G-1040. Two miles north of Alamogordo, N. Mex. Elevation 4,200 feet.

229061. No. G-1067. One mile northwest of Hondo, Tex. Elevation 5,200 feet.

229062. No. G-1096. Thirty miles west of Carrizozo, N. Mex. Elevation 5,400 feet.

229063 to 229067. From New Mexico.

229063. No. G-1103. Eighteen miles south of Albuquerque. Elevation 4,800 feet.

229064. No. G-1122. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.

229065. No. G-1129. One mile north of Animas. Elevation 4,400 feet.

229066. No. G-1140. Twenty miles south of Animas. Elevation 4,850 feet.

229067. No. G-1153. Thirty-five miles south of Animas. Elevation 5,100 feet.

229068. No. G-1202. Willow Springs Ranch, Tucson, Ariz. Elevation 3,300 feet.

229069. No. G-1248. Two miles east of Patagonia, Ariz. Elevation 4,200 feet

229070 to 229076. From Mexico.

229070. No. G-1403. Fifty-five miles north of Durango City. Elevation 5,950 feet.

229071. No. G-1417. Fifty-six miles south of Durango City. Elevation 6,600 feet.

229072. No. G-1449. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Dry area.

229073. No. G-1509. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

229074. No. G-1512. Thirty-eight miles north of Bermejillo, Durango. Elevation 3,900 feet.

228412 to 229258—Continued

229057 to 229081—Continued

229070 to 229076—Continued

229075. No. G-1521. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229076. No. G-1526. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

229077 to 229081. From Texas.

229077. No. G-1565. Twenty-two miles southeast of Eagle Pass. Elevation 1,000 feet.

229078. No. H-V-92. Albany.

229079. No. H-V-258. Cottle County.

229080. No. H-V-310. Old Glory.

229081. No. H-V-385. Anson.

229082. *Panicum reverchoni* Vasey

No. FR-344. Location unknown.

229083 to 229087. *Panicum virgatum* L.

Switchgrass.

229083. No. G-309-A. Fifteen miles southeast of Saltillo, Coahuila, Mexico. Elevation 5,000 feet. Recovered from mixture with *Andropogon scoparius* (P.I. 216147).

229084 to 229087. From Texas.

229084. No. H-V-267. C. L. Wright Farm, north of Paducah. From plantings made in 1947, recovering from drouth.

229085. No. H-V-341. Knox City.

229086. No. RF-126. Muleshoe.

229087. No. RF-13. H. W. Green Ranch, six miles west of Perren, SCS Nursery at Mineral Wells.

229088. *Panicum* sp.

No. G-1352. Mazatlán—Durango City, Sinaloa, Mexico. Elevation 6,400 feet.

229089 to 229096. *Pappophorum bicolor* Fourn. Poaceae. Pink pappusgrass.

229089 to 229092. From Mexico.

229089. No. G-1481. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.

229090. No. G-1517. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229091. No. G-1525. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

229092. No. G-1559. Two hundred and nine miles north of Saltillo, Coahuila. Elevation 1,700 feet.

229093. No. G-1561. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.

229094. No. G-330-A. Ten miles south of Nueva Rosita, Mexico. Recovered from mixture with *Panicum* sp. (P.I. 216519).

229095. No. RF-10. Guy Combs Ranch, 24 miles south of Marathon, Tex.

229096. No. RF-449. Eagle Pass, Maverick County, Tex.

229097 to 229107. *Pappophorum mucronulatum* Nees Whiplash pappusgrass.

229097. No. G-1004. Fort Stockton, Texas. Elevation 4,500 feet.

229098. No. G-1179. Six miles southwest of Tucson, Arizona. Elevation 2,500 feet.

228412 to 229258—Continued**229097 to 229107—Continued**

229099 to 229103. From Mexico.

229099 No. G-1478. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.

229100 No. G-1491. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Dry area.

229101. No. G-1504. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

229102. No. G-1511 Thirty-two miles north of Bermejillo, Durango. Elevation 3,900 feet. Dry area.

229103. No. G-1519 Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229104. No. G-32-A Experiment Station Sonora, Tex. Elevation 2,600 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216812)

229105. No. G-303-A Forty miles west of Monterrey, Nuevo León, Mexico Elevation 5,000 feet Recovered from mixture with *Andropogon sacchariodes*. (P.I. 216128).

229106 No. RF-4 Guy Combs, Jr. Ranch, 24 miles south of Marathon, Tex.

229107. No. RF-412. San Manuel, Tex.

229108. PAPPOPHORUM sp.

No. G-320-A. Fifteen miles north of Saltillo, Mexico Recovered from mixture with *Trichachne californica* (P.I. 216618).

229109. PAPPOPHORUM sp.

No. G-850-A Between Durango and Torreon. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216292).

229110. PASPALUM PLICATULUM Michx. Poaceae.

No. G-1333. Sierra de Álamos, Sonora, Mexico. Elevation 2,800 feet.

229111. PENNISETUM CILIARE (L.) Link Poaceae.**Buffelgrass.**

No. G-1574. Twenty miles east of Laredo, Tex. Elevation 800 feet.

229112. PENNISETUM sp.

No. G-1347. On road between Mazatlán and Durango City, Mexico.

229113. POA sp. Poaceae.

No. XG-220. Ten miles east of Superior, Ariz. Elevation 4,700 feet.

229114 and 229115. STIPA SPECIOSA Trin. & Rupr. Poaceae. **Desert needlegrass.**

229114. No. Y-13. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.

229115. No. Y-26 Two miles east of Bellota Ranch, Ariz. Elevation 4,300 feet.

229116. STIPA sp.

No. G-1303. Northeast of Obregón City, Sonora Mexico. Elevation 725 feet.

229117. STIPA sp.

No. G-1313. East of Navojoa, Sonora, Mexico. Elevation 700 feet.

229118. STIPA sp.

No. G-1502. Sixty-seven miles west of Bermejillo, Durango, Mexico. Elevation 6,400 feet. Dry area.

229119. STIPA sp.

No. G-1439. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.

228412 to 229258—Continued**229120.** STIPA sp.

No. G-1529. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.

229121. STIPA sp.

No. G-1531. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.

229122. STIPA sp.

No. G-1540. Twenty miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,900 feet.

229123 to 229125. SETARIA GRISEBACHII Fourn. Poaceae. **Millet.**

229123. No. G-1063. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.

229124. No. G-1066. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.

229125. No. G-1249. Two miles east of Patagonia, Ariz. Elevation 4,200 feet.

229126 to 229158. SETARIA MACROSTACHYA H.B.K. **Millet.**

229126. No. G-1003. Fort Stockton, Tex. Elevation 4,500 feet.

229127 to 229131. From New Mexico.

229127. No. G-1012. Four miles east of Sierra Blanca. Elevation 4,200 feet.

229128. No. G-1017. Mesquite. Elevation 4,000 feet.

229129. No. G-1020. Fifteen miles northeast of Las Cruces. Elevation 4,500 feet.

229130. No. G-1041. Two miles north of Alamogordo. Elevation 4,200 feet.

229131. No. G-1044. Six miles northeast of Tularosa. Elevation 4,900 feet.

229132. No. G-1070. One mile northwest of Hondo, Tex. Elevation 5,200 feet.

229133 to 229135. From New Mexico.

229133. No. G-1083. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.

229134. No. G-1089. Two miles south of Socorro. Elevation 4,800 feet.

229135. No. G-1136. Twenty miles south of Animas. Elevation 4,850 feet.

229136 to 229141. From Arizona.

229136. No. G-1181. Six miles southwest of Tucson. Elevation 2,500 feet.

229137. No. G-1185. Nineteen miles southwest of Tucson. Elevation 3,300 feet. Plants to 4 feet high.

229138. No. G-1195. Nine miles northwest of Tucson. Elevation 2,900 feet.

229139. No. G-1199. Willow Springs Ranch, Tucson. Elevation 3,300 feet.

229140. No. G-1215. Eight miles northeast of Tucson. Elevation 2,700 feet.

229141. No. G-1223. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

229142 to 229152. From Mexico.

229142. No. G-1296. Twenty-nine miles southeast of Guaymos, Sonora. Elevation 20 feet.

228412 to 229258—Continued

229126 to 229158—Continued

229142 to 229152—Continued

229143. No. G-1409. Eighty miles north of Durango City. Elevation 5,900 feet.
229144. No. G-1423. Sixty-six miles southeast of Durango City. Elevation 7,700 feet.
229145. No. G-1470. One hundred miles northeast of Durango City. Elevation 5,000 feet.
229146. No. G-1474. One hundred and thirty-three miles northeast of Durango City. Elevation 4,000 feet.
229147. No. G-1480. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
229148. No. G-1488. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Dry mountainside.
229149. No. G-1490. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Dry area.
229150. No. G-1513. Thirty-eight miles north of Bermejillo, Durango. 3,900 feet. Dry area.
229151. No. G-1522. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.
229152. No. G-1527. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.
229153. No. G-1564. Twenty-five miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.
229154. No. G-1572. Sixteen miles east of Laredo, Tex. Elevation 700 feet.
229155. No. G-714-A. Between Torreón and Durango, Mexico. Recovered from mixture with *Andropogon* sp. (P.I. 216188).
229156. No. H-V-117. Stephens County, Tex.
229157. No. RF-460. Edinberg, Hidalgo County, N. Mex. Small type.
229158. No. Y-17. Three and four-tenths miles south of Graham County line, Ariz.
229159. *SETARIA* sp.
No. G-1170. Twelve miles east of Wilcox, Ariz. Elevation 4,300 feet.
229160. *SETARIA MACROSTACHYA* H.B.K.
No. G-1306. Mountains northeast of Obregón, Sonora, Mexico. Elevation 1,400 feet.
229161. *SETARIA SCHEELEI* (Steud.) Hitchc.
No. G-1346. Between Mazatlán and Durango City, Mexico. Elevation 1,275 feet.
229162. *SETARIA* sp.
No. G-1367. Seven miles west of Durango City, Mexico. Elevation 6,900 feet.
229163. *SETARIA* sp.
No. G-1471. One hundred and eight miles northwest of Durango City, Mexico. Elevation 5,000 feet.
229164. *SETARIA* sp.
No. G-1548. Seventy-four miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.
229165. *SETARIA* sp.
No. G-1551. Seventy-four miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.

228412 to 229258—Continued**229166.** SETARIA sp.

No. G-371-A. Between Durango and Zacatecas, Mexico. Recovered from mixture with *Muhlenbergia* sp. (P I 216488).

229167. SETARIA sp.

No. XG-244. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

229168. SETARIA sp.

No. XG-251. Thirty-four miles east of Ft. Stockton, N. Mex. Elevation 2,800 feet.

229169 to 229 72. SORGHASTRUM NUTANS (L.) Nash. Poaceae.**Yellow Indiangrass.**

229169. No. G-1097. Ten miles south of Albuquerque, N. Mex. Elevation 4,700 feet.

229170 to 229172. From Texas.

229170. No. H-V-45-A. Stephenville. Recovered from mixture with *Bouteloua* sp. (P.I. 217021).

229171. No. H-V9. Ten miles north of Stephenville. Growing in drainage area.

229172. No. RF-120. Nine miles west of Menard.

229173 to 229177. SPOROBOLUS AIROIDES Torr. Poaceae.**Dropseed.**

229173. No. G-288-A. Five miles south of Marathon, Texas. Elevation 3,600 feet. Recovered from mixture with *Andropogon saccharoides* (P.I. 216713).

229174. No. G-1042. Six miles northeast of Tularosa, N. Mex. Elevation 4,900 feet.

229175. No. XG-187. Jornada Experimental Range, N. Mex. Elevation 4,000 feet.

229176. No. RF-66. Two miles west of Balmorhea, Tex.

229177. No. RF-529. Muleshoe Wildlife Refuge, near Muleshoe, Tex.

229178 and 229179. SPOROBOLUS ASPER (Michx.) Kunth;**Tall dropseed.**

229178. No. RF-36. From farm near Highway 50 northwest of traffic circle, College Station, Tex.

229179. No. RF-362. Tex. (Location unknown.)

229180 and 229181. SPOROBOLUS CRYPTANDRUS (Torr.) A. Gray**Sand dropseed.**

229180. No. H-V-74. Breckenridge Golf Course, Breckenridge, Tex. Good growth and maturing seed in area with late rainfall.

229181. No. Y-21. One mile southeast of Wilcox, Ariz. Elevation 4,200 feet.

229182. SPOROBOLUS FLEXUOSUS (Thurb.) Rydb.**Mesa dropseed.**

No. XG-183. New Mexico A & M College Ranch, pasture 13, 0.5 mile south of Seldom Well. Elevation 3,500 feet.

229183. SPOROBOLUS VIRGINICUS (L.) Kunth**Seashore dropseed.**

No. G-1295. Beach Miramar, Guaymas, Sonora, Mexico.

229184. SPOROBOLUS sp.

No. G-1019. Fifteen miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet.

229185. SPOROBOLUS sp.

No. G-1034. White Sands National Monument, N. Mex. Elevation 3,700 feet.

229186. SPOROBOLUS sp.

No. G-1035. White Sands National Monument, N. Mex. Elevation 3,700 feet. Nea *S. pulvinatus*.

228412 to 229258—Continued**229187.** *SPOROBOLUS* sp.

No. G-652-B. Municipio de Arteaga. Fifteen miles east of Saltillo, Mexico. Elevation 6,000 feet. Recovered from mixture with *Enneapogon dextrauxii* (P.I. 216396).

229188 to 229194. *TRACHYPOGON MONTUFARI* (H.B.K.) Nees Poaceae.**Crinkleawn.**

229188. No. G-1175. Texas Canyon, east of Tucson, Arizona. Elevation 4,600 feet.

229189. No. G-1252. Six miles east of Patagonia, Arizona. Elevation 4,400 feet.

229190 to 229194. From Mexico.

229190. No. G-1326. Sierra de Álamos, Sonora, Mexico. Elevation 2,600 feet.

229191. No. G-1334. Sierra de Álamos, Sonora. Elevation 2,600 feet.

229192. No. G-1337. Sierra de Álamos, Sonora. Elevation 2,600 feet.

229193. No. G-1371. Eight miles west of Durango City. Elevation 7,100 feet.

229194. No. G-1442. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

229195. *TRACHYPOGON* sp.

No. G-1349. Between Mazatlán and Durango City, Mexico. Elevation 2,400 feet.

229196. *TRACHYPOGON* sp.

No. G-1351. Between Mazatlán and Durango City, Mexico. Elevation 6,300 feet.

229197 to 229226. *TRICHACHNE CALIFORNICA* (Benth.) Chase Poaceae.**229197 to 229199.** From New Mexico.

229197. No. G-1018. Fifteen miles northeast of Las Cruces. Elevation 4,500 feet.

229198. No. G-1023. One mile northeast of Organ. Elevation 5,000 feet.

229199. No. G-1145. Twenty-one miles south of Animas. Elevation 4,940 feet.

229200 to 229203. From Arizona.

229200. No. G-1177. Six miles southwest of Tucson. Elevation 2,500 feet.

229201. No. G-1192. Eight miles northwest of Tucson. Elevation 2,700 feet.

229202. No. G-1205. Six miles northeast of Tucson. Elevation 2,600 feet.

229203. No. G-1209. Six miles northeast of Tucson. Elevation 2,600 feet.

229204 to 229209. From Mexico.

229204. No. G-1288. Two miles east of La Colorada, Sonora. Elevation 1,350 feet.

229205. No. G-1463. Ninety-eight miles northeast of Durango City. Elevation 5,200 feet.

229206. No. G-1510. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

229207. No. G-1516. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229208. No. G-1524. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

228412 to 229258—Continued**229197 to 229226—Continued****229204 to 229209—Continued**

229209. No. G-1552. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.

229210 to 229214. From Texas.

229210. No. G-1563. Twenty-two miles southeast of Eagle Pass. Elevation 1,000 feet.

229211. No. G-1573. Twenty miles east of Laredo. Elevation 800 feet.

229212. No. XG-109-B. Twenty-seven miles north of Herrville. Elevation 2,500 feet. Recovered from mixture with *Panicum obtusum* (P.I. 216517).

229213. No. G-97-A. Twenty-three miles south of Morton. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216816).

229214. No. G-244-A. Two miles south of Alpine. Elevation 4,800 feet. Recovered from mixture with *Andropogon barbinodis* (P.I. 216674).

229215. No. G-651-A. Municipio de Arteaga, Camino a las Vigas. Fifteen miles east of Saltillo, Mexico. Elevation 6,000 feet. Recovered from mixture with *Setaria macrostachya* (P.I. 216566).

229216. No. H-V-256. Cottle County, Tex.

229217. No. H-V-368. Knox Pittard Ranch, nine miles east and one mile north of Anson, Tex. Heavily grazed.

229218. No. XG-185. Sunmaford Mountain, north side, near headquarters, A & M College Ranch, Albuquerque, New Mexico. Elevation 4,500 feet.

229219. No. XG-206. Page Ranch, 35 miles north of Tucson, Arizona and five miles west of Oracle. Elevation 3,200 feet.

229220. No. SG-210. Fifteen miles south of Florence, Ariz. Elevation 2,000 feet.

229221. No. XG-227. Twenty miles east of Safford, Ariz. Elevation 3,000 feet.

229222. No. XG-235. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet.

229223. No. RF-74. Mrs. Mueller's Ranch, 5 miles north of Marfa, Tex. Shallow clay-loam.

229224. No. RF-450. Five miles southeast of Asherton, Tex. Dry flat.

229225. No. RF-413. San Manuel, Tex.

229226. No. Y-30. One mile west of Montezuma Canyon, Ariz. Elevation 4,800 feet.

229227. TRICHACHNE sp.

No. G-623-A. Between Torreón and Saltillo, Coahuila, Mexico. Recovered from mixture with *Stipa* sp. (P.I. 216592).

229228 to 229231. TRICHLORIS MENDOCINA (Phil.) Kurtz Poaceae.

229228. No. G-1039. Two miles north of Alamogordo, N. Mex. Elevation 4,200 feet.

229229. No. G-1520. Sixty-two miles east of Torreón, Coahuila, Mexico. Elevation 3,800 feet.

229230. No. G-1562. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.

229231. No. G-1569. Sixteen miles east of Laredo, Tex. Elevation 700 feet.

228412 to 229258—Continued

229232. *TRICHLORIS PLURIFLORA* Fourn.

No. RF-454. Laredo, Tex.

229233. *TRICHLORIS* sp.

No. G-1299. Thirty miles southeast of Guaymas, Sonora, Mexico. Elevation 50 feet.

229234. *TRIDENS ALBESCENS* (Vasey) Woot. & Standl. Poaceae.

No. H-V-351-A. Six miles southwest of Haskell, Tex. Recovered from mixture with *Buchloe dactyloides* (P.I. 217051).

229235 to 229237. *TRIDENS MUTICUS* (Torr.) Nash

229235. No. G-67-A. McKenzie State Park, Lubbock, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216926).

229236. No. XG-234. Ten miles west of Duncan, Ariz. Elevation 3,000 feet.

229237. No. XG-248. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

229238. *TRIDENS PULCHELLUS* (H.B.K.) Hitchc.

No. Y-19. Three and four-tenths miles south of Graham County line, Highway 666, Ariz. Elevation 4,000 feet.

229239. *TRIDENS* sp.

No. G-1343. One mile east of Mazatlán, Sinaloa, Mexico. Elevation 50 feet.

229240. *TRIPSACUM DACTYLOIDES* L. Poaceae. **Eastern gamagrass.**

No. G-6773. Rosenberg, Tex.

229241. *TRIPSACUM LANCEOLATUM* Rupr. **Mexican gamagrass.**

No. G-1348. Between Mazatlan and Durango City, Mexico. Elevation 2,400 feet.

229242. (Undetermined.)

No. G-1269. Seventeen miles northeast of Tucson, Ariz. Elevation 4,800 feet.

229243. (Undetermined.)

No. XG-193. Five miles southeast of Chiricahua National Monument, Cochise County, Ariz. Elevation 5,000 feet.

229244. *ACACIA ANGUSTISSIMA* (Mill.) Kuntze Mimosaceae. **Prairie acacia.**

No. 1280. Ninety-seven miles south of Nogales, Sonora, Mexico. Elevation 2,300 feet.

229245. *BRONGNIARTIA* sp. Fabaceae.

No. 1316. Near Tesopaco, northeast of Obregón City, Sonora, Mexico. Elevation 1,700 feet.

229246 and 229247. *CASSIA FASCICULATA* Michx. Caesalpiniaceae.

229246. No. 1241. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

229247. No. 1318. Sierra de Álamo, Sonora, Mexico. Elevation 2,000 feet.

229248. *CASSIA* sp.

No. 1189. Three miles northwest of Tucson, Ariz. Elevation 2,500 feet.

229249. *CASSIA* sp.

No. 1282. Twenty miles northeast of Hermosillo, Sonora, Mexico. Elevation 800 feet.

229250. *CASSIA* sp.

No. 1330. Sierra de Álamos, Sonora, Mexico. Elevation 2,700 feet.

228412 to 229258—Continued

229251. *DESMANTHUS SUBULATUS* (Britton & Rose) Wiggins Mimosaceae.

No. 1283. Thirty-one miles northeast of Hermosillo and twenty miles west of Ures, Sonora, Mexico. Elevation 850 feet.

229252. *DESMANTHUS VIRGATUS* (L.) Willd.

No. 1298. Thirty miles southeast of Guaymas, Sonora, Mexico. Elevation 5,000 feet. Perennial to three feet high.

229253. *DESMANTHUS* sp.

No. 1326. Forty-two miles southeast of Tucson, Ariz. Elevation 4,750 feet.

229254. *DESMANTHUS* sp.

No. 1260. Eight miles east of Patagonia, Ariz. Elevation 4,550 feet.

229255. *ERYTHRINA FLABELLIFORMIS* Kearney Fabaceae. **Western coralbean.**

No. 1579. Sierra de Álamos, near Álamos, Sonora, Mexico. Elevation 3,000 feet. Possible ornamental.

229256. *SOPHORA SECUNDIFLORA* (Ortega) DC. Fabaceae. **Mescal-bean.**

No. 1578. Near Ranch Experiment Station, Sonora, Tex. Elevation 2,100 feet.

229257. *TEPHROSIA* sp. Fabaceae.

No. 1332. Sierra de Álamos, Sonora, Mexico. Elevation 2,800 feet.

229258. (Undetermined.)

No. 1315. Mountains east of Navojoa, Sonora, Mexico. Elevation 850 feet. An herbaceous legume.

229259 to 229277. *ORYZA SATIVA* L. Poaceae. **Rice.**

From India. Seed presented by the Botanist to the Government of the United Provinces, Nagina. Received Oct. 11, 1955.

229259. C. 2-10.	229269. T. 22A.
229260. N. 12.	229270. T. 23.
229261. N. 10B.	229271. T. 36.
229262. N. 32.	229272. T. 43.
229263. 'Santha'.	229273. T. 88.
229264. T. 1.	229274. T. 100.
229265. T. 3.	229275. T. 136.
229266. T. 9.	229276. T. 137.
229267. T. 17.	229277. T. 138.
229268. T. 21.	

229278. *HEVEA BRASILIENSIS* (A. Juss.) Muell.-Arg. Euphorbiaceae. **Para rubber tree.**

From Florida. Plant growing at the United States Plant Introduction Station, Miami. Numbered Aug. 29, 1955.

Grown from seeds received from the Firestone Plantations, West Liberia.

229279 to 229288. *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**

From Puerto Rico. Budwood presented by the Agricultural Experiment Station, Rio Piedras. Received Oct. 12, 1955.

229279. 'Cana Criolla'.	229284. P.R. 803.
229280. D. 433.	229285. P.R. 914.
229281. M.P.R. 42.	229286. P.R. 925.
229282. M.P.R. 340.	229287. P.R. 999.
229283. P.O.J. 2806.	229288. 'Rayada Uno'.

229289. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From Costa Rica. Seeds presented by the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Oct. 12, 1955.

'Salvador Strain'.

229290 to 229292. PRUNUS AMYGDALUS Batsch Amygdalaceae.**Almond.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 14, 1955.

Collected Sept. 16, 1955.

From Shahrud, Khorasan Province.

229290. Col. No. 15806. 'Badam'. Long variety from mixed grafted and seeded stocks.

229291. Col. No. 15807. Hard-shelled variety from mixed grafted and seeded stocks.

229292. Col. No. 15809. Thin-shelled, long variety.

229293. ORMOSIA sp. Fabaceae.

From Panama. Seeds presented by Cicero de la Victoria, Panama City. Received Oct. 14, 1955.

229294 to 229311.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 14, 1955.

229294. ASTRAGALUS GOSSYPINUS Fisch. Fabaceae. Milkvetch.

Col. No. 15560. Kuhe Safid near Esfahan.

229295. ASTRAGALUS sp.

Col. No. 15002. Three miles south of Dehbid, along road from Abadeh to Shiraz. Elevation 7,000 feet. Limestone rocks. Low, spreading, spiny, perennial shrub.

229296. ASTRAGALUS CERASOCRENUS (Tourn.) L. Milkvetch.

Col. No. 15568. Dastana, Chaharmahal. Small bush, containing a good quality tragacanth.

229297. ASTRAGALUS sp.

Col. No. 15569. Dastana, Chaharmahal. Elevation 6,700 feet. Limestone. Low, spreading bush, yielding good quality of gum tragacanth.

229298. ASTRAGALUS sp.

Col. No. 15634. 'Shirineh'. Musiabad, west of Esfahan. Elevation 6,500 feet. Sedimentaries. Bush to 15 inches high; thorns thick; branchlets erect; flowers red; yields fair grade of gum tragacanth.

229299. ASTRAGALUS sp.

Col. No. 15680. Fifteen to 20 miles east of Tehran, in Alborz foothills. Limestone. Bush to 1 foot high and 2 feet broad; good gum tragacanth variety.

229300. ASTRAGALUS sp.

Col. No. 15691. Gach Sar, Alborz Range. Elevation 6,800 feet. Limestone. Bush to 14 inches high; twigs yellowish; root large with good gum cylinder about 0.5 inch in diameter.

229301. ASTRAGALUS sp.

Col. No. 15692. Gach Sar, Alborz Range. Elevation 6,800 feet. Gum cylinder small.

229294 to 229311—Continued

229302. *CICER SPIROCERAS* Jaub. & Spach. Fabaceae.

Col. No. 15032. Mountain pass above Dasht Arjan, Fars.

229303 to 229309. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

229303. Col. No. 15407. Market in Maragheh, Azerbaijan.

229304. Col. No. 15495. Market in Ardabil, Azerbaijan.

229305. Col. No. 15812. Market, Shahrud, Khorasan Province.

229306. Col. No. 15813. Shahrud, Khorasan Province.

229307. Col. No. 15814. Near Firuzkuh, Khorasan Province.

229308. Col. No. 15822. Market, Tehran.

229309. Col. No. 14805. Bam, southeastern section.

229310. *PRUNUS SPINOSISSIMA* (Bunge) Franch. Amygdalaceae. **Wild almond.**

Col. No. 15033. 'Argan'. Mountain slope between Dasht Arjan and Kazerun, Fars. Elevation 5,000 feet. Limestone. Spreading spiny shrub; used as grafting stock.

229311. *PRUNUS* sp.

Col. No. 15074. 'Argan'. About 6 miles east of Sarvestan, Fars. Elevation 6,000 feet. Rocky, limey soil. Few-branched, erect shrub; seed large, abundant.

229312 to 229362. *GLYCINE MAX* (L.) Merr. Fabaceae.

Soybean.

From Japan. Seed presented by the Ministry of Agriculture and Forestry, Tokyo. Received Oct. 17, 1955.

229312. 'Akita No. 32'.

229338. 'Matsuura'.

229313. 'Akitaani'.

229339. 'Meguro'.

229314. 'Ani 31'.

229340. 'Nadeshiko No. 1'.

229315. 'Asahi Nobo No. 48'.

229341. 'Nooki No. 1'.

229316. 'Buko-mame No. 14'.

229342. 'Nookishirobana'.

229317. 'Daruma 202'.

229343. 'Nonaka No. 1'.

229318. 'Darumamasari'.

229344. 'Norin No. 4'.

229319. 'Dekisugi No. 1'.

229345. 'Norin No. 5'.

229320. 'Ginjiro'.

229346. 'Ojiro'.

229321. 'Hai-daizu'.

229347. 'Ouu No. 4'.

229322. 'Hajinomi'.

229348. 'Ouu N. 12'.

229323. 'Ichigowase'.

229349. 'Rikuu No. 27'.

229324. 'Itachi'.

229350. 'Sakyuaomane'.

229325. 'Twate No. 1'.

229351. 'Senrya'.

229326. 'Twate No. 2'.

229352. 'Shakkin-nashi'.

229327. 'Twateyagi 201'.

229353. 'Shirataka'.

229328. 'Kairyogionbo'.

229354. 'Shirazaya No. 1'.

229329. 'Kairyoshirome'.

229355. 'Shirobana-Sai No. 1'.

229330. 'Kanegawawase'.

229356. 'Shiro-hachikoku No. 2'.

229331. 'Kasugazairai'.

229357. 'Shirohachi-koku'.

229332. 'Kiizaya'.

229358. 'Soden-daizu'.

229333. 'Kimusume No. 77'.

229359. 'Tohoku No. 1'.

229334. 'Kinnari No. 1'.

229360. 'Tamatsukuri No. 11'.

229335. 'Kinoshita-mame'.

229361. 'Tokishi'.

229336. 'Kinusume'.

229362. 'Yogetus No. 1'.

229337. 'Kurosaya'.

229363 to 229399.

From New York. Plants distributed by the Regional Plant Introduction Station, New York State Agricultural Experiment Station, Geneva. Numbered Oct. 18, 1955.

Native and naturalized northeastern species collected by the University of Maine, Agricultural Experiment Station, Orono; New York Agricultural Experiment Station, Geneva; University of New Hampshire Agricultural Experiment Station, Durham.

229363 to 229372. *BROMUS INERMIS* Leyss. Poaceae. **Smooth brome.**

From Griswold Farm. Claremont, N. H. Collected from 10 to 12 years old stands.

229363. No. 1.	229368. No. 6.
229364. No. 2.	229369. No. 7.
229365. No. 3.	229370. No. 8.
229366. No. 4.	229371. No. 9.
229367. No. 5.	229372. No. 10.

229373. *KALMIA POLIFOLIA* Wang. Ericaceae. **Bog-laurel.**

No. B-4. Wallace Cove Bog, Lubec, Maine. Plants compact; flowers large, clear pink and deep purplish-pink.

229374. *RHODODENDRON CANADENSE* (L.) Torr. Ericaceae **Rhodora.**

No. B-3. Wallace Cove Bog, Lubec, Maine. Flowers purple to deep reddish purple; petals large.

229375 and 229376. *RHODODENDRON MAXIMUM* L. **Rosebay rhododendron.**

From Standish, Cumberland County, Maine. About 1 mile south of Sebago Lake.

229375. No. B-1. Seedlings from a vigorous colony, locally known as the "White group".

229376. No. B-2. Seedlings from a vigorous colony, locally known as the "Pink group".

229377 to 229391. *RUBUS CANADENSIS* L. Rosaceae. **Blackberry.**

From New Hampshire.

229377 to 229384. Smooth type.

229377. No. D-1. Packer's Falls Rd., Strafford County, Durham. Plants vigorous; stems smooth; inflorescences nonglandular.

229378. No. 2. Pittsburg, Coos County, Clarksville. Plant smooth with slender prickle; inflorescence glabrous or nearly so, dark purple; completely dormant in April.

229379. No. 3. North Stratford. Canes tall, vigorous, dark purplish-red with scattered prickles; inflorescence smooth, glandular.

229380. No. 4. Franconia. Along river in gravelly loam and by roadside in village. Plants to 6 feet high; inflorescence nearly glabrous.

229381. No. 5. Franconia Notch, Franconia. About 2 miles south of Profile. Canes to 6 feet high, vigorous, no prickles; inflorescences perfectly smooth, glandular.

229382. No. 1. Along Simon's Stream, Columbia, Coos County, and openings along wooded road. Canes nearly smooth, purplish; inflorescences nonglandular.

229383. No. 2. Along edge of Simon's Stream, Coos County. Canes nearly smooth, purplish; inflorescences nonglandular.

229384. No. 3. South along edge of Simon's Stream, Coos County. Canes nearly smooth, purplish; inflorescences nonglandular.

229385 to 229391. From New York. Thornless type.

229385. No. 12. South Hill, Virgil.

229363 to 229399—Continued**229377 to 229391—Continued****229385 to 229391—Continued**

229386. No. 13. South Hill, Virgil. Plant slightly to moderately prickly.
 229387. No. 15 to 17. Caroline Center. Plant sparsely thorny.
 229388. No. 21. Raquette Lake, Adirondack Mountains. Plants nearly prickless.
 229389. No. 22. Indian Lake, Adirondack Mountains. Plants sparsely growing, but strongly prickly.
 229390. No. 23. Lewey Lake, Adirondack Mountains. Plant variably prickly.
 229391. No. 27. Forked Lake, Adirondack Mountains. Plant nearly prickless.

229392 to 229399. TRIFOLIUM REPENS L. Fabaceae.**Whiteclover.**

From H. Townsend Farm, Lebanon, New Hampshire. Material from 6- to 8-year-old stands.

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| 229392. No. 1. | 229396. No. 5. |
| 229393. No. 2. | 229397. No. 6. |
| 229394. No. 3. | 229398. No. 7. |
| 229395. No. 4. | 229399. No. 8. |

229400 to 229415.

From England. Seeds presented by the Royal Horticultural Society, Wisley, Ripley, Surrey. Received Feb. 21, 1954.

229400. RHODODENDRON ABERCONWAYI Cowan Ericaceae.
 229401. RHODODENDRON AMBIGUUM Hemsl.
 229402. RHODODENDRON CAERULEUM Levl.
 229403. RHODODENDRON CAMPYLOGYNUM Hook. f.
 229404. RHODODENDRON CHARITOPES Balf. & Farrar
 229405. RHODODENDRON CHARITOSTREPTUM Balf. & Ward
 229406. RHODODENDRON GLAUCOPHYLLUM Rehder
 229407. RHODODENDRON HIPPOPHAEOIDES Balf. & Smith
 229408. RHODODENDRON NIPPONICUM Matsu.
 229409. RHODODENDRON RADINUM Balf. & Smith
 229410. RHODODENDRON RUSSATUM Balf. & Forr.
 229411. RHODODENDRON AUGUSTINII Hemsl.
 229412. RHODODENDRON RACEMOSUM Franch. **Mayflower rhododendron.**
 229413. RHODODENDRON RUBIGINOSUM Franch.
 229414. RHODODENDRON SEARSIAE Rehd. & Wils.
 229415. RHODODENDRON YUNNANENSE Franch.

229416 to 229423. TRIFOLIUM SUBTERRANEUM L. Fabaceae.**Subterranean clover.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Oct. 18, 1955.

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| 229416. 'Bacchus March 93/10'. | 229420. 'Tallarook 94/6'. |
| 229417. 'Bacchus Marsh 93/14'. | 229421. 'Tallarook 94/8'. |
| 229418. 'Northam 2nd Early 97A/4'. | 229422. 'Yabba North 92/5'. |
| 229419. 'Northam 2nd Early 97A/7'. | 229423. 'Yabba North 92/19'. |

229424 to 229469.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 18, 1955.

229424. *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

Col. No. 15329. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

229425. *AGROPYRON ORIENTALE* (L.) Roem. & Schult. Poaceae. **Wheatgrass.**

Col. No. 15345. North of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

229426. *AGROPYRON* sp.

Col. No. 15480. South piedmont of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 7,500 feet. Small, leafy culms.

229427. *ALOPECURUS PRATENSIS* L. Poaceae.

Col. No. 15039. Dasht Arjan, west of Shiraz, Fars. June 15, 1955. Elevation 6,600 feet.

229428. *ALOPECURUS* sp.

Col. No. 15235. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 10,700 feet.

229429. *ALOPECURUS* sp.

Col. No. 15236. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 7,500 feet.

229430. *ALOPECURUS* sp.

Col. No. 15479. East base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet. Wire-leaved, sod-forming perennial.

229431. *ALOPECURUS TEXTILIS* Boiss.

Col. No. 15521. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Plant tufted.

229432. *ALOPECURUS* sp.

Col. No. 15601. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet.

229433. *ANDROPOGON* sp. Poaceae.

Col. No. 14982. South of Abadeh, Fars. June 7, 1955. Elevation 8,000 feet. Tender leafy perennial with bulbous roots growing in schist rocks.

229434. *ANDROPOGON* sp.

Col. No. 15234. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 9,000 feet. Small, delicate, caespitose perennial.

229435. *ANDROPOGON* sp.

Col. No. 15417. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 9,000 feet.

229436. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15498. Nineteen miles west of Ardabil along road to Meshginshahr, Azerbaijan. Aug. 9, 1955. Elevation 7,000 feet.

229437. *AVENA* sp. Poaceae.

Col. No. 15022. Chelchesmi, 30 miles west of Shiraz. June 14, 1955. Elevation 6,500 feet.

229438. *BROMUS STERILIS* L. Poaceae. **Poverty brome.**

Col. No. 14848. Tehran. May 22, 1955. Elevation 4,000 feet. Stooling grass with leafy base.

229424 to 229469—Continued

- 229439.** *BROMUS TOMENTELLUS* Boiss. **Brome.**
Col. No. 15449. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet.
- 229440.** *BROMUS* sp.
Col. No. 15508. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Tall, red-stemmed perennial.
- 229441.** *BROMUS TOMENTOSUS* Trin. **Brome.**
Col. No. 15538. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet. Small, tender tufts.
- 229442.** *CATABROSA AQUATICA* Beauv. Poaceae.
Col. No. 15103. Near Komehr, Fars. June 28, 1955. Elevation 8,800 feet. Aquatic perennial.
- 229443.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
Col. No. 15621. Faridan, Shahrestan-e. Aug. 28, 1955. Elevation 7,000 feet.
- 229444.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
Col. No. 15413. Piedmont of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 8,000 feet.
- 229445.** *KOELERIA* sp. Poaceae.
Col. No. 15505. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet.
- 229446.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
Col. No. 15555. Kuhe Sion between Ardabil and Tabriz. Aug. 12, 1955. Elevation 8,000 feet.
- 229447.** *HORDEUM BREVISUBULATUM* Trin. Poaceae. **Barley.**
Col. No. 15249. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,500 feet. Sod-forming perennial.
- 229448.** *ELYMUS* sp. Poaceae.
Col. No. 15321. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Sod-forming grass.
- 229449.** *ELYMUS* sp.
Col. No. 15513. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Perennial, leafy, colonial, caespitose.
- 229450.** *FESTUCA* sp. Poaceae.
Col. No. 15109. Kowkun Valley, Fars. June 28, 1955. Elevation 7,500 feet. Tufted perennial grass.
- 229451.** *FESTUCA ARUNDINACEA* Schreb. **Tall fescue.**
Col. No. 15171. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.
- 229452.** *FESTUCA* sp.
Col. No. 15250. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,500 feet. Turf-forming perennial.
- 229453.** *FESTUCA* sp.
Col. No. 15309. Twenty miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.
- 229454.** *FESTUCA* sp.
Col. No. 15489. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Aug. 8, 1955. Elevation 8,500 feet.

229424 to 229469—Continued

229455. *FESTUCA* sp.

Col. No. 15325. East of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

229456. *FESTUCA* sp.

Col. No. 15540. Northeast side Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet. Short, fine-leaved perennial.

229457. *GLYCERIA* sp. Poaceae.

Col. No. 15217. Dastana, south of Shah-Kord. July 9, 1955. Elevation 6,800 feet. Hydrophytic, succulent, stoloniferous, broad-bladed perennial.

229458. *PUCCINELLIA SEVANENSIS* Grossh. Poaceae.

Col. No. 15264. Ten miles south of Esfahan, along road to Shiraz. July 16, 1955.

229459. *GLYCERIA* sp. Poaceae.

Col. No. 15492. Southwest of Arbabil, Azerbaijan. Aug. 8, 1955. Elevation 6,500 feet. Succulent hydrophyte.

229460. *HORDEUM TURKESTANICUM* Nevski. Poaceae.

Barley.

Col. No. 14964. South of Dehbid along road to Shiraz. June 5, 1955. Elevation 7,000 feet.

229461. *HORDEUM* sp.

Col. No. 15157. Didigone, Fars July 1, 1955. Elevation 6,800 feet. Meso-phytic perennial; palatable to livestock.

229462. *HORDEUM* sp.

Col. No. 15349. North of Sanadaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

229463. *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15525. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

229464. *PHLEUM MONTANUM* C. Koch. Poaceae.

Timothy.

Col. No. 15471. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 6, 1955. Elevation 10,000 feet. Perennial on rocky lava slope.

229465. *POA* sp. Poaceae.

Col. No. 15531. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

229466. *POA* sp.

Col. No. 15537. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet. Small tufted perennial.

229467. *STIPA* sp. Poaceae.

Col. No. 15363. South of Maragheh, Kurdistan. July 30, 1955. Elevation 5,500 feet.

229468. *STIPA* sp.

Col. No. 15548. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 8,000 feet.

229469. *VICIA ERVILIA* (L.) Willd. Fabaceae.

Bitter vetch.

Col. No. 15830. Bavanat Valley, Fars. June, 1955. Elevation 6,000 feet. Irrigated.

229470. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

From Turkey. Seeds presented by the Agricultural Attache, American Embassy, Ankara. Received Oct. 19, 1955.

229471 and 229472.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Oct. 19, 1955.

229471. *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

C.P.I. 6845. Originally from Algeria.

229472. *DACTYLIS MARITIMA* Curtis

C.P.I. 9003. Originally from Algeria.

229473 to 229504.

From Iran. Seeds collected by H. S. Genty, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 19, 1955.

229473. *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae.

Intermediate wheatgrass.

Col. No. 15333. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Grows in large, vigorous clumps.

229474. *AGROPYRON* sp.

Col. No. 15483. Sarab, Azerbaijan. Aug. 8, 1955. Elevation 6,500 feet.

229475. *AGROPYRON INTERMEDIUM* (Host) Beauv. **Intermediate wheatgrass.**

Col. No. 15484. Kuhe Sion, between Sarab and Ardabil, Azerbaijan. Aug. 8, 1955. Elevation 8,000 feet. Perennial with leafy culms.

229476. *LOLIUM PERENNE* L. Poaceae.

Ryegrass

Col. No. 15551. Market, Ardabil, Azerbaijan. Oct. 19, 1955. Elevation 6,000 feet.

229477. *AGROSTIS* sp. Poaceae.

Col. No. 15526. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

229478. *ALOPECURUS* sp. Poaceae.

Col. No. 1509'. Northern ridge of Kuhe Barmeh Firuz, Fars. June 28, 1955. Elevation 10,000 feet.

229479 and 229480. *ALOPECURUS ARUNDINACEUS* Poir.

229479. Col. No. 15322. East of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Coarse culms to 3 feet high.

229480. Col. No. 15512. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Forms a deep ground cover.

229481. *ALOPECURUS TEXTILIS* Boiss.

Col. No. 15541. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet.

229482. *ALOPECURUS* sp.

Col. No. 15336. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

229483. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15254. Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet. Thriving, palatable perennial with long culms to 3 feet high.

229484. *ANDROPOGON* sp.

Col. No. 15519. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet.

229485. *BROMUS TECTORUM* L. Poaceae.

Cheatgrass.

Col. No. 14847. Tehran. May 22, 1955.

229473 to 229504—Continued

- 229486 to 229489.** *BROMUS TOMETELLUS* Boiss. **Brome.**
229486. Col. No. 15120. Kowkun Valley, Fars. June 28, 1955.
229487. Col. No. 15121. Kowkun Valley, Fars. June 28, 1955.
229488. Col. No. 15523. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Slender, tufted perennial; tuffaceous slope.
229489. Col. No. 15544. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 9,500 feet.
- 229490.** *CALAMAGROSTIS* sp. Poaceae.
 Col. No. 15247. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet.
- 229491.** *DESCHAMPSIA* sp. Poaceae.
 Col. No. 15434. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial; well liked by horses.
- 229492.** *DESCHAMPSIA* sp.
 Col. No. 15455. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial; scattered on rocky slope.
- 229493.** *DIANTHUS CARYOPHYLLUS* L. **Silenaceae.** **Carnation.**
 Col. No. 15059. Estavanat, Fars. June 22, 1955. Elevation 7,000 feet.
- 229494.** *ELEAGNUS ANGUSTIFOLIA* L. **Elaeagnaceae.** **Russian-olive.**
 Col. No. 14933. Market, Esfahan. June 1, 1955. Small, glaucous-leaved tree; commonly planted along ditches.
- 229495.** *ERAGROSTIS* sp. Poaceae.
 Col. No. 14979. Limestone slope near Bavanat Valley, Fars. June 7, 1955. Elevation 7,500 feet. Xerophytic annual.
- 229496.** *ERAGROSTIS* sp.
 Col. No. 15297. Borugen, Chaharmahal Province. July 13, 1955. Elevation 6,500 feet.
- 229497.** *FESTUCA* sp. Poaceae.
 Col. No. 15019. Near Chelcheshmi, west of Shiraz. June 14, 1955. Elevation 6,500 feet. Perennial; leaves bluish, to 4 inches long.
- 229498.** *FESTUCA* sp.
 Col. No. 15126. Komehr Valley, Fars. June 29, 1955. Elevation 7,500 feet. Tufted perennial; roots strong.
- 229499.** *FESTUCA* sp.
 Col. No. 15156. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.
- 229500 and 229501.** *FESTUCA ARUNDINACEA* Schreb. **Tall fescue.**
229500. Col. No. 15212. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet.
229501. Col. No. 15323. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Broad-leaved perennial.
- 229502.** *FESTUCA* sp.
 Col. No. 15463. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Hydrophytic meadow fescue.
- 229503.** *FESTUCA* sp.
 Col. No. 15543. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 9,500 feet. Red-stemmed fescue on drier meadow slopes.
- 229504.** *PUCCINELLIA* sp. Poaceae.
 Col. No. 15265. South of Esfahan along road to Shiraz. July 16, 1955.

229505 to 229510. SACCHARUM (hybrids). Poaceae. Sugarcane.

From the British West Indies. Cuttings presented by the Central Sugar Cane Breeding Station, Barbados. Received Oct. 20, 1955.

229505. B. 39254.	229508. B. 45211.
229506. B. 45170.	229509. B. 45236.
229507. B. 45184.	229510. B. 45266.

229511 to 229515.

From Peru. Seeds presented by the United States Operation Mission, Lima. Received Oct. 19, 1955.

229511 to 229514. CARICA PAPAYA L. Caricaceae. Papaya.

229511. No. 1. Collected near Bellavista and Jaen. Said to be of excellent quality and disease resistant.

229512. No. 2. Collected Sept., 1955, near Iquitos. Excellent flavor and firm flesh.

229513. No. 3. 'San Martin'. Criollo type; semi-elliptical, delicious; disease resistant. Collected in Tarapota, on the Amazon.

229514. No. 4. Tarapota, on the Amazon. Cross between 'San Martin', a Criollo type, and a Puerto Rican variety.

229515. CROTALARIA sp. Fabaceae.

Collected in Llamas.

229516. CITRUS LIMON (L.) Burm. f. Rutaceae. Lemon.

From Morocco. Seeds presented by the Institut des Fruits and Agrumes, Rabat. Received Oct. 20, 1955.

'Voangibe'. Originally from the west coast of Madagascar.

229517. DIANTHUS SUPERBUS L. Silenaceae. Lilac pink.

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 21, 1955.

Col. No. 451. Sand dunes along beach areas, Abashiri, Kitami, Hokkaido. July 29, 1955. Flowers purple; petals deeply lacinate.

229518 to 229551.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 21, 1955.

229518. AGROPYRON sp. Poaceae.

Col. No. 15366. Southern plain of Lake Rezaiyeh, Azerbaijan.

229519. AGROPYRON sp.

Col. No. 15369. Southern plain of Lake Rezaiyeh, Azerbaijan.

229520. AGROPYRON sp.

Col. No. 15469. Northeast base of Kuhe Sahand, Azerbaijan.

229521. AGROPYRON CRISTATUM (L.) Gaertn. Crested wheatgrass.

Col. No. 15485. Kuhe Sion, between Sarab and Ardabil, Azerbaijan.

229522. ALLIUM PORRUM L. Liliaceae. Leek.

Col. No. 1537. Maragheh, Azerbaijan.

229523. ALOPECURUS sp. Poaceae.

Col. No. 15303. Seventy-five miles north of Kermanshah along road to Sanandaj.

229518 to 229551—Continued

- 229524 and 229525.** *ALOPECURUS ARUNDINACEUS* Poir.
229524. Col. No. 15459. Northeast base of Kuhe Sahand, Azerbaijan.
229525. Col. No. 15460. Northeast base of Kuhe Sahand, Azerbaijan.
- 229526.** *APIUM GRAVEOLENS* L. Apiaceae. **Celery.**
 Col. No. 15373. Maragheh, Azerbaijan.
- 229527.** *BROMUS BRACHYSTACHYS* Hornung Poaceae. **Brome.**
 Col. No. 15367. Southern plain of Lake Rezaiyeh, Azerbaijan.
- 229528.** *BROMUS* sp.
 Col. No. 15418. Southeast base of Kuhe Sahand, Azerbaijan.
- 229529.** *BROMUS* sp.
 Col. No. 15507. Northeast slope of Kuhe Savalan, Azerbaijan.
- 229530.** *BROMUS* sp.
 Col. No. 15532. Northeast side of Kuhe Savalan, Azerbaijan.
- 229531.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**
 Col. No. 15377. Maragheh, Azerbaijan.
- 229532.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
 Col. No. 15341. Twenty-two miles north of Sanandaj, Kurdistan.
- 229533.** *FESTUCA* sp. Poaceae.
 Col. No. 15432. Northeast base of Kuhe Sahand, Azerbaijan.
- 229534.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
 Col. No. 15300. Forty miles north of Kermanshah, along road to Sanandaj.
- 229535.** *ORYZOPSIS* sp. Poaceae.
 Col. No. 15467. Northeast base of Kuhe Sahand, Azerbaijan.
- 229536 and 229537.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
229536. Col. No. 15385. Market in Maragheh, Azerbaijan.
229537. Col. No. 15397. Market in Maragheh, Azerbaijan.
- 229538.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**
 Col. No. 15381. Maragheh, Azerbaijan.
- 229539.** *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
 Col. No. 15391. Market in Maragheh, Azerbaijan.
- 229540 and 229541.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**
229540. Col. No. 15374. Maragheh, Azerbaijan.
229541. Col. No. 15402. Market in Maragheh, Azerbaijan.
- 229542.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**
 Col. No. 15392. Market in Maragheh, Azerbaijan.
- 229543.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
 Col. No. 15376. Maragheh, Azerbaijan.
- 229544.** *STIPA* sp. Poaceae.
 Col. No. 15288. Thirty-five miles north of Kermanshah, along road to Sanandaj.
- 229545.** *STIPA* sp.
 Col. No. 15428. Southeast base of Kuhe Sahand, Azerbaijan.
- 229546.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**
 Col. No. 15370. Maragheh, Azerbaijan.

229518 to 229551—Continued

- 229547.** *TRIFOLIUM CAMPESTRE* Schreb. **Clover.**
Col. No. 15270. Five miles north of Kermanshah.
- 229548.** *TRIGONELLA NOEANA* Boiss. Fabaceae. **Clover.**
Col. No. 15275. Five miles north of Kermanshah.
- 229549.** *TULIPA* sp. Liliaceae. **Tulip.**
Col. No. 15327. Eleven miles east of Sanandaj, Kurdistan.
- 229550.** *VICIA* sp. Fabaceae.
Col. No. 15435. Kuhe Sahand, Azerbaijan.
- 229551.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**
Col. No. 15386. Market in Maragheh, Azerbaijan.
- 229552.** *ORYZA LATIFOLIA* Desv. Poaceae. **Rice.**
From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guatemala City. Received Oct. 21, 1955.
Collected in Finca La Ilusiones, Brito, Escuintla.
- 229553.** *ARACHIS HYPOGAEA* L. Fabaceae. **Common peanut.**
From the Union of South Africa. Seeds presented by the College of Agriculture and Experiment Station, Potchefstroom, Transvaal. Received Oct. 21, 1955.
P. 620. 'Basse'.
- 229554 and 229555.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
From Spain. Seeds presented by the Instituto Nacional de Investigaciones Agronomicas, Madrid. Received Oct. 24, 1955.
229554. 'Amarillo de Onteniente'.
229555. 'Verde Tendral'.
- 229556 and 229557.** *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**
From Brazil. Cuttings presented by the Estagao Experimental de Campos, Campos. Received Oct. 25, 1955.
229556. C. B. 46-47.
229557. C. B. 47-15.
- 229558 and 229559.** *COFFEA ARABICA* L. Rubiaceae. **Arabian coffee.**
From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quito. Received Oct. 24, 1955.
229558. 'Cumbaya'. Leaves small, like "Macho" coffee.
229559. 'Cumbaya'. Typical.
- 229560.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
From Finland. Seeds presented by the Agricultural Research Center, Department of Plant Husbandry, Tikkurila. Received Oct. 24, 1955.
'Pirkka'.
- 229561 to 229563.**
From France. Seeds presented by the Agricultural Attache, American Embassy, Paris. Received Oct. 25, 1955.
- 229561 and 229562.** *HORDEUM VULGARE* L. Poaceae. **Barley.**
229561. 'Hatif de Grignon'. Winter type.
229562. 'Probstdorf'.
- 229563.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**
'Cappelle'. (Winter type.)

229564. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**
From Yugoslavia. Seeds obtained through the Agricultural Attache, American Embassy, Belgrade. Received Oct. 25, 1955.

Originally from Irbia, near Valjevo. (Winter type.)

229565. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**
From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 25, 1955.

Col. No. 15836. About 25 miles southeast of Shiraz, Fars, on shore of lake. Collected June, 1955.

229566 to 229571.

From Greece. Seeds presented by the Agricultural Attache, American Embassy, Athens. Received Oct. 25, 1955.

229566. *CICER ARIETINUM* L. Fabaceae. **Chickpea.**
M-2169.

229567. *LATHYRUS CICERA* L. Fabaceae. **Flatpod peavine.**
N-92.

229568. *LOTUS CORNICULATUS* L. Fabaceae. **Birdsfoot trefoil.**
M-4758.

229569. *LOTUS TENUIS* Maldst. & Kit. Fabaceae. **Trefoil.**
M-4985.

229570. *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**
M-2787.

229571. *MELILOTUS SULCATA* Desf. Fabaceae. **Sweetclover.**
M-3705.

229572 to 229627.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 25, 1955.

229572 to 229574. *AGROPYRON CRISTATUM* (L.) Gaertn. Poaceae. **Crested wheatgrass.**

229572. Col. No. 15468. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,500 feet.

229573. Col. No. 15473. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet.

229574. Col. No. 15535. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet.

229575. *AGROPYRON* sp.

Col. No. 15279. Six miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Annual to 1 foot high.

229576 and 229577. *AGROPYRON TRICHOPOHORUM* (Link) Richt. **Stiffhair wheatgrass.**

229576. Col. No. 15563. Dastana, Chaharmahal. Aug. 23, 1955. Elevation 6,800 feet. Perennial with leafy culms to 3 feet high.

229577. Col. No. 15289. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Xerophytic perennial.

229578. *AGROPYRON INTERMEDIUM* (Host.) Beauv. **Intermediate wheatgrass.**

Col. No. 15294. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 6,500 to 7,000 feet. Tall, leafy perennial; used for hay.

229572 to 229627—Continued**229579.** AGROPYRON sp.

Col. No. 15305. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 6,000 to 7,000 feet. Vigorous perennial to 3 feet high.

229580. AGROPYRON sp.

Col. No. 15355. Fifty miles south of Saghaz, Kurdistan. July 29, 1955. Elevation 8,500 feet. Xerophytic perennial, in extensive stands; culms single; leaf bulk small.

229581. AGROPYRON sp.

Col. No. 15503. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 8,000 feet. Bunch perennial; stems bluish gray, to 3 feet high.

229582. AGROPYRON REPENS (L.) Beauv. **Quackgrass.**

Col. No. 15510. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Perennial to 4 feet high.

229583. AGROPYRON sp.

Col. No. 15683. Thirty-six miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 6,000 feet. Slender, thin-leaved, xerophytic perennial.

229584. ALLIUM PORRUM L. Liliaceae. **Leek.**

Col. No. 15725. Market, Kalow, Caspian shore. Sept. 13, 1955.

229585. ANDROPOGON sp. Poaceae.

Col. No. 15304. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial; roots deep.

229586. ANDROPOGON sp.

Col. No. 15420. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 9,000 feet. In colonies along stream.

229587. BOTHRIOCHLOA ISCHAEMUM (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15474. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 9,500 feet. Rhizomatous grass; scarcely browsed.

229588. ASTRAGALUS sp. Fabaceae.

Col. No. 15547. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 8,000 feet. Herb spreading on loose turf.

229589. BETA VULGARIS L. Chenopodiaceae. **Beet.**

Col. No. 15782. Market, Gorgan. Sept. 14, 1955.

229590. BRASSICA sp. Brassicaceae.

Col. No. 15379. Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Roots eaten.

229591. BROMUS TOMENTELLUS Boiss. Poaceae. **Brome.**

Col. No. 15273. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Tufted perennial.

229592. BROMUS DANTHONIAE Trin. **Brome.**

Col. No. 15280. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Vigorous annual to 1.5 feet high.

229593. BROMUS TOMENTELLUS Boiss. **Brome.**

Col. No. 15287. Thirty-five miles north of Kermanshah, along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial.

229594. BROMUS MACROSTACHYS Desf. **Brome.**

Col. No. 15296. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Thick annual grass.

229572 to 229627—Continued

- 229595.** *BROMUS STERILIS* L. **Poverty brome.**
Col. No. 15297. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Slender annual; thick spring grass.
- 229596.** *BROMUS TOMENTELLUS* Boiss. **Brome.**
Col. No. 15298. Thirty-five miles north of Kermanshah along road to Sanandaj. Elevation 7,200 feet. Tufted perennial.
- 229597.** *BROMUS STERILIS* L. **Poverty brome.**
Col. No. 15301. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Slender annual to 2 feet high.
- 229598.** *BROMUS BRACHYSTACHYS* Hornung **Brome.**
Col. No. 15368. Southern plain of Lake Rezaiyeh, Azerbaijan. July 31, 1955. Elevation 5,700 feet. Annual in spring flood area.
- 229599.** *BROMUS JAPONICUS* Thunb. **Brome.**
Col. No. 15409. Nineteen miles east of Maragheh, Azerbaijan. Aug. 3, 1955. Spring annual to 2 feet high; used for hay.
- 229600.** *BROMUS FIBROUS* Hack. **Brome.**
Col. No. 15430. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Slender perennial.
- 229601.** *BROMUS ERECTUS* Huds. **Meadow brome.**
Col. No. 15431. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet.
- 229602.** *BROMUS* sp.
Col. No. 15476. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 9,500 feet. A silver-glume grass forming sod on slopes.
- 229603.** *BROMUS TOMENTOSUS* Trin. **Brome.**
Col. No. 15518. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Bushy perennial to 2 feet high.
- 229604 and 229605** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**
229604. Col. No. 15757. Market, Babol. Caspian plain. Sept. 13, 1955.
229605. Col. No. 15796. Fifty miles east of Gorgan. Sept. 15, 1955. Elevation 500 feet. Melon small, round, striped.
- 229606.** *CYNDON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**
Col. No. 15285. Thirty-two miles north of Kermanshah along road to Shanandaj. July 27, 1955. Elevation 7,000 feet. Rather coarse plants on dry slope.
- 229607** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**
Col. No. 15291. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial with culms to 4 feet long.
- 229608.** *EREMURUS* sp. Liliaceae.
Col. No. 15360. Twelve miles south of Saghez, Kurdistan. July 29, 1955. Elevation 7,000 feet. Plants scattered on slope; to 3 feet high; flowers pink; leaves eaten as greens.
- 229609.** *GLYCERIA* sp. Poaceae.
Col. No. 15465. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4 1955. Elevation 10,000 feet. Perennial hydrophyte; stems succulent; liked by horses.
- 229610.** *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**
Col. No. 15764. Market, Sari, Caspian plain. Sept. 14, 1955.
- 229611.** *LENS CULINARIS* Medic. Fabaceae. **Lentil.**
Col. No. 15740. 'Adas'. Market, Kalow, Caspian shore. Sept. 13, 1955.

229572 to 229627—Continued

229612 and 229613. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**

229612. Col. No. 15353. Thirty-nine miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 8,500 feet.

229613. Col. No. 15552. Market, Ardabil, Azerbaijan. Aug. 12, 1955. Elevation 6,000 feet.

229614. *ORYZOPSIS* sp. Poaceae.

Col. No. 15422. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 2, 1955. Elevation 9,000 feet. Tufted, palatable perennial; growing on rocky slopes.

229615. *PAPAVER* sp. Papaveraceae.

Col. No. 15350. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet. Spring annual.

229616. *PAPAVER* sp.

Col. No. 15462. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Annual on meadow slope.

229617. *PAPAVER ORIENTALE* L.

Oriental poppy.

Col. No. 15515. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Annual to 1 foot high; flowers red.

229618. *PHASEOLUS COCCINEUS* L. Fabaceae.

Scarlet runner bean.

Col. No. 15405. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet.

229619. *PHASEOLUS VULGARIS* L.

Common bean.

Col. No. 15396. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Seeds large, pink, with red spots.

229620. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

Col. No. 15375. Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Plant spreading, dwarf.

229621. *STIPA* sp. Poaceae.

Col. No. 15290. Sixty-five miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,200 feet. Tufted perennial.

229622 and 229623. *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

229622. Col. No. 15324. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

229623. Col. No. 15554. Market, Ardabil, Azerbaijan. Aug. 12, 1955. Elevation 6,000 feet.

229624 and 229625. *TRIFOLIUM AMBIGUUM* M. Bieb.

Kura clover.

229624. Col. No. 15542. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Plant erect or spreading; flowers pink; abundant on drier meadow slope.

229625. Col. No. 15546. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 9,500 feet. Apparently annual forming thick cover with grasses, to 1 foot high.

229626. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.

Fenugreek.

Col. No. 15722. Market Kalow, Caspian shore. Sept. 13, 1955. Local variety; seeds large.

229627. *CORONILLA VARIA* L. Fabaceae.

Crownvetch.

Col. No. 15358. Thirty miles south of Saghez, Kurdistan. July 29, 1955. Elevation 8,000 feet. Rank annual herb; stems heavy, reclining. Cut with grass for hay.

229628 to 229630.

From Israel. Budwood presented by the Ministry of Agriculture, Agricultural Research Station, Rehovot. Received Oct. 26, 1955.

Collected Oct. 20, 1955.

229628. CITRUS sp. Rutaceae.

'Shamouty'. No. 57.

229629. CITRUS sp.

'Shamouty'. No. 79.

229630. CITRUS sp.

'Shamouty'. No. 1518.

229631 to 229646. TRIFOLIUM MEDIUM Huds. Fabaceae.**Mammoth clover.**

From Finland. Seeds presented by the Agricultural Research Center, Department of Plant Husbandry, Tikkurila. Received Oct. 27, 1955.

229631. No. 1. Tikkurila **229634.** No. 4. Tammisto.

229632. No. 2. Tikkurila. **229635.** No. 5. Tammisto.

229633. No. 3. Tammisto. **229636.** No. 6. Viik.

229637 to 229646. Jokioinen.

229637. No. 7. **229642.** No. 12.

229638. No. 8. **229643.** No. 13.

229639. No. 9. **229644.** No. 14.

229640. No. 10. **229645.** No. 15.

229641. No. 11. **229646.** No. 16.

229647 to 229650. CHAENOMELES LAGENARIA (Loisel.) Koidz.

Malaceae.

Japanese quince.

From Japan. Plants presented by Eikichi Satomie, Setagaya-ku, Tokyo. Received Oct. 27, 1955.

229647. 'Showa-nishiki'. **229649.** 'Tsukasa-botan'.

229648. 'Toyo-nishiki'. **229650.** 'Zansetsu'.

229651 to 229653.

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 28, 1955.

229651. CORYLUS sp. Betulaceae.

Col. No. 15736. Market, Kalow, Caspian shore. Sept. 13, 1955. Cultivated. Seeds.

229652. (Undetermined.)

Col. No. 15630. Four miles south of Khorasan, Ostan. Aug. 28, 1955. Bulbous ornamental.

229653. (Undetermined.)

Col. No. 15631. Four miles south of Khorasan, Ostan. Aug. 28, 1955. Bulbous ornamental.

229654 and 229655.

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Oct. 28, 1955.

229654. TRIFOLIUM FRAGIFERUM L. Fabaceae.

Strawberry clover.

229655. TRIFOLIUM REPENS L. Fabaceae.

Whiteclover.

229656 to 229662.

From Madagascar. Seeds presented by the Station Agronomique de l'Alaoitra Tananarive. Received Oct. 28, 1955.

229656 to 229660. *ARACHIS HYPOGAEA* L. Fabaceae. **Common peanut.**

229656. 'Buitenzorg 214'.

229659. 'Rustemboring'.

229657. 'Hybride 32'.

229660. 'Valencia 2A7'.

229658. 'Hybride 33'.

229661. *EUCHLAENA MEXICANA* Schrad. Poaceae.

Teosinte.

229662. *PENNISSETUM CILIARE* (L.) Link Poaceae.

Buffelgrass.

229663. *CHRYSANTHEMUM CINERARIAEFOLIUM* (Trevir.) Vis. Asteraceae.

Pyrethrum.

From the Belgian Congo. Seeds presented by E. V. Chauveaux, Domaine deRwan-keri, Goma, Kivu. Received Oct. 31, 1955.

T.P.C. 1.75.

229664. *FRAGARIA* (hybrid). Rosaceae.

Strawberry.

From Mexico. Plants presented by H. H. Young, Mexico City. Received Oct. 3, 1955.

'Fina'. Uruapán, Michoacán.

229665. *ALLIUM* sp. Liliaceae.

From Iran. Bulblets collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 31, 1955.

Col. No. 15589. Kuh Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet. Leafless scapes to 1 foot high.

229666. *HORDEUM* sp. Poaceae.

Barley.

From Jordan. Seeds presented by the Deir Alba Experimental Station, Amman. Received Nov. 1, 1955.

'Tribute'.

229667 to 229673. *SESAMUM INDICUM* L. Pedaliaceae.

Sesame.

From Argentina. Seeds presented by the Ministry of Agriculture, Buenos Aires. Received Nov. 1, 1955.

229667. 948-DCE-Sm.S.N.-01-1-5-2-1. **229671.** 950-DCE-Sm.-V51-012-1.

229668. 950-DCE-Sm.Ind.-016-1.

229672. 950-DCE-Sm.-V52-03.

229669. 950-DCE-Sm.-Ind.-017.

229673. T-85.

229670. 950-DCE-Sm.-S.I. 0500.

229674 to 229676.

From Italy. Seeds collected by H. S. Gentry, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 1, 1955.

229674. *AGROPYRON PUNGENS* (Pers.) Roem. & Schult. Poaceae. **Wheatgrass**

Col. No. 15823. La Mortola Gardens, Ventimiglia. Sept. 23, 1955. Colonial, glaucous, blue-leaved, perennial.

229675. *ASPARAGUS SPRENGERI* Regel Convallariaceae.

Col. No. 15829. La Mortola Gardens, Ventimiglia. September 1955. Originally from Natal.

229676. *BRACHYPODIUM* sp. Poaceae.

Col. No. 15824. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Perennial ground cover under pine trees.

229677 and 229678. NICOTIANA DEBNEYI Domin Solanaceae.**Tobacco.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Nov. 2, 1955.

229677. T.S. 111. Carnarvon Range, Queensland.

229678. T.S. 2. Bundaberg, southeastern Queensland.

229679 to 229735.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 1, 1955.

Collected July to September 1955, unless otherwise noted.

229679 and 229680. ALLIUM CEPA L. Liliaceae.

Onion.

229679. Col. No. 15726. Market, Kalow, Caspian shore.

229680. Col. No. 15778. Market, Gorgan. Small green type, purplish when mature.

229681. ALOPECURUS ARUNDINACEUS Poir. Poaceae.

Col. No. 15501. Twenty-one miles west of Ardabil, along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Leafy perennial on rocky slope.

229682. ASTRAGALUS sp. Fabaceae.

Col. No. 15342. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Rank perennial; bushy, spreading, to 2 feet high.

229683. BETA VULGARIS L. Chenopodiaceae.

Beet.

Col. No. 15730. 'Chohondar'. Market, Kalow, Caspian shore. Red type.

229684. BRASSICA RAPA L. Brassicaceae.

Turnip.

Col. No. 15781. Market, Gorgan.

229685. CATABROSA AQUATICA Beauv. Poaceae.

Col. No. 15359. Thirty miles south of Saghez, Kurdistan. Elevation 8,000 feet. Hydrophytic, leafy perennial.

229686. CITRULLUS VULGARIS Schrad. Cucurbitaceae

Watermelon.

Col. No. 15760. Market, Sari, Caspian plain.

229687. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

Col. No. 15805. Qareh Qaya, 25 miles northeast of Tehran. Melon dark green, elliptic, faintly netted.

229688. CUCURBITA PEPO L. Cucurbitaceae.

Pumpkin.

Col. No. 15761. Market, Sari, Caspian plain.

229689. DESCHAMPsia sp. Poaceae.

Col. No. 15528. Northeast side of Kuhe Savalan, Azerbaijan. Perennial in wet meadow; forms sod.

229690. ELYMUS sp. Poaceae.

Col. No. 15424. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Dry meadow slope.

229691. EREMURUS sp. Liliaceae.

Col. No. 14836. Mountain pass 16 miles east of Sirjan, along road to Kerman. Elevation 8,500 feet. May 14, 1955. Plant with both single and cespitose rosettes; flowers white to light pink, in racemes to 3 feet high.

229692. FESTUCA sp. Poaceae.

Col. No. 15299. Forty-one miles north of Kermanshah along road to Sahandaj. Elevation 7,000 feet. Leafy perennial.

229679 to 229735—Continued

229693. *FESTUCA VALESIIACA* Schleich. ex Gaud.

Col. No. 15445. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Tall fescue, forming clumps on moist slope.

229694. *HORDEUM* sp. Poaceae.

Barley.

Col. No. 15318. Eleven miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Plants to 3 feet high.

229695. *HORDEUM* sp.

Col. No. 15410. Twenty-three miles east of Maragheh, Azerbaijan. Elevation 7,500 feet. Plant low, stooling.

229696. *IRIS SPURIA* L. Iridaceae.

Col. No. 15618. Near Kuhe Rang, Chaharmahal. Elevation 8,000 feet. Growing in moist locations.

229697. *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15478. East base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Short leaved, sod-forming perennial.

229698 and 229699. *LACTUCA SATIVA* L. Cichoriaceae.

Lettuce.

229698. Col. No. 15737. 'Kaho'. Market Kalow, Caspian shore.

229699. Col. No. 15763. Market Sari, Caspian plain.

229700. *LATHYRUS INCONSPICUUS* L. Fabaceae.

Peavine.

Col. No. 15278. Five miles north of Kermanshah. Elevation 6,000 feet. Winter and spring annual.

229701. *LATHYRUS* sp.

Col. No. 15494. Fourteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet. Hydrophytic herb.

229702 and 229703. *LOLIUM PERENNE* L. Poaceae.

Ryegrass.

229702. Col. No. 15216. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Sod-forming perennial; well liked by animals.

229703. Col. No. 15490. Thirteen miles southwest of Ardabil, Azerbaijan. Perennial growing along ditch.

229704. *ORYZA SATIVA* L. Poaceae.

Rice.

Col. No. 15753. Babol, Caspian plain.

229705. *ORYZOPSIS HOLCIFORMIS* (M. Bieb.) Hack. Poaceae.

Ricegrass.

Col. No. 14962. Twenty miles south of Dehbid along road to Shiraz. Elevation 7,000 feet. Perennial; culms to 3 feet high; browsed by animals.

229706. *PAPAVER SOMNIFERUM* L. Papaveraceae.

Opium poppy.

Col. No. 15787. Market, Gorgan.

229707 and 229708. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

229707. Col. No. 15734. 'Mash'. Market Kalow, Caspian shore.

229708. Col. No. 15766. 'Mash'. Market Sari, Caspian plain.

229709. *PHASEOLUS COCCINEUS* L.

Scarlet runner bean.

Col. No. 15811. Market, Shahrud, Khorasan Province

229710 to 229713. *PHASEOLUS VULGARIS* L.

Common bean.

229710. Col. No. 15721. 'Lubia'. Market Kalow, Caspian shore. Seeds long, tan.

229711. Col. No. 15731. Market Kalow, Caspian shore. Seeds long.

229712. Col. No. 15771. 'Lubia'. Market, Gorgan. Seeds pink.

229713. Col. No. 15810. 'Lubia'. Market, Shahrud, Khorasan Province.

229679 to 229735—Continued

229714. POA sp. Poaceae.

Col. No. 15233. Limestone mountain, southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Small, tufted perennial growing on drier slopes.

229715. POA sp.

Col. No. 15354. Nineteen miles north of Sanandaj, Kurdistan. Elevation 8,000 feet. Hydrophytic perennial.

229716. POA sp.

Col. No. 15362. Thirty-eight miles south of Maragheh, Kurdistan. Elevation 5,500 feet. Colonial perennial, on rocky dry slope.

229717 to 229719. POA PRATENSIS L.

Kentucky bluegrass.

229717. Col. No. 15414. Piedmont of Kuhe Sahand, Azerbaijan. Elevation 8,000 feet. Slender, leafy perennial; growing on ditch bank.

229718. Col. No. 15440. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Leafy perennial; culms tall; found in moist meadow.

229719. Col. No. 15443. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Plants tall with good leaf crown.

229720. APERA SPICA-VENTA (L.) Beauv. Poaceae.

Col. No. 15444. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Small perennial with dense crown of long leaves.

229721. POA PRATENSIS L. Poaceae.

Kentucky bluegrass.

Col. No. 15511. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Perennial forming heavy sod in moist meadow.

229722. POA sp.

Col. No. 15628. Four miles south of Khorasan, Ostan. Elevation 9,000 feet. Small, turf-like, perennial.

229723 to 229725. RAPHANUS SATIVUS L. Brassicaceae.

Radish.

229723. Col. No. 15732. 'Toroptchek'. Market Kalow, Caspian shore. Roots long, white.

229724. Col. No. 15738. 'Toroptchek'. Market, Kalow, Caspian shore. Roots small, red.

229725. Col. No. 15762. Market, Sari, Caspian plain. Roots small, red.

229726. ROSA sp. Rosaceae.

Col. No. 15606. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Spreading perennial to 1 foot high.

229727. ROSA sp.

Col. No. 15675. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Erect bushes to 4 feet high.

229728. SECALE CEREALE L. Poaceae.

Rye.

Col. No. 15348. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Tall nonshattering type. Culms strong, to 3 feet high.

229729. SECALE sp.

Col. No. 15416. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Stooling perennial on rocky slope.

229730. SOLANUM MELONGENA L. Solanaceae.

Eggplant.

Col. No. 15741. 'Badenjon'. Market, Kalow, Caspian Shore. Fruits long.

229731. SPINACIA OLERACEA L. Chenopodiaceae.

Common spinach.

Col. No. 15735. 'Esfinags'. Market, Kalow, Caspian Shore.

229679 to 229735—Continued

229732. *TRIFOLIUM STRIATUM* L. Fabaceae. **Clover.**

Col. No. 15271. Five miles north of Kermanshah. Elevation 6,000 feet. Annual to 5 inches high.

229733. *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 15277. Five miles north of Kermanshah. Elevation 6,000 feet. Annual dry-farmed wheat.

229734 and 229735. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

229734. Col. No. 15720. 'Chesh Bolboli Lubia'. Market, Kalow, Caspian plain.

229735. Col. No. 15780. 'Lubia'. Market, Gorgan. Large white bean.

229736. *ARACHIS* sp. Fabaceae.

From Paraguay. Roots presented by Fred J. Kemp, Primavera. Received Nov. 2, 1955.

A wild species.

229737. *PENNISETUM CILIARE* (L.) Link Poaceae. **Buffelgrass.**

From Morocco. Seeds presented by the Forest and Range Program, Rabat. Received Nov. 3, 1955.

229738. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Algeria. Seeds presented by the Service de l'Experimentation Agricole. Maison-Carree. Received Nov. 3, 1955.

'Hubert 33'.

229739 to 229797.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 8, 1955.

Collected Aug. and Sept., 1955, unless otherwise noted.

229739. *AGROPYRON* sp. Poaceae.

Col. No. 15610. East slope of Kuhe Zard, Chaharmahal. Elevation 9,500 feet. Diffusely caespitose perennial; culms slender, to 3 feet high.

229740. *AGROPYRON* sp.

Col. No. 15611. East slope of Kuhe Zard, Chaharmahal. Elevation 9,500 feet. Larger, more vigorous variety than P.I. 229739.

229741. *ALLIUM* sp. Liliaceae.

Col. No. 15625. Four miles south of Khorasan, Ostan. Elevation 9,000 feet.

229742. *ALLIUM* sp.

Col. No. 15638. Near Musiabad, 43 miles west of Esfahan. Elevation 7,500 feet.

229743 and 229744. *MELICA CUPANI* Guss. Poaceae. **Melic.**

229743. Col. No. 15415. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Small leafy perennial on rocky slope.

229744. Col. No. 15472. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Leafy perennial on rocky volcanic slope.

229745. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

Col. No. 15587. Twenty-eight miles northwest of Shahr Kord, Chaharmahal. Elevation 8,500 feet. Hydrophytic perennial browsed by sheep.

229739 to 229797—Continued

229746. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Poaceae. **Turkestan bluestem.**

Col. No. 15283. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. July 27, 1955. Bushy perennial; excellent forage.

229747. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

Col. No. 15788. Market, Gorgan.

229748 and 229749. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

229748. Col. No. 15791. 'Anduvani'. Market, Gorgan.

229749. Col. No. 15794. 'Anduvani'. Market, Gorgan. Fruits round, striped, to 20 pounds in weight.

229750 and 229751. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

229750. Col. No. 15759. Market, Sari, Caspian plain.

229751. Col. No. 15795. 'Harbuseh'. Market, Gorgan. Fruits greenish, depressed globose with thick white flesh. Casava type.

229752. *DAUCUS CAROTA* L. Apiaceae. **Carrot.**

Col. No. 15785. Market, Gorgan.

229753. *ELYMUS* sp. Poaceae.

Col. No. 15423. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Perennial; heavily grazed.

229754. *ERAGROSTIS* sp. Poaceae.

Col. No. 15534. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Small, stoloning perennial, growing on rocky slope.

229755. *FESTUCA* sp. Poaceae.

Col. No. 15419. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Short-tufted perennial; much browsed.

229756. *FESTUCA* sp.

Col. No. 15433. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Short-lived perennial.

229757. *FESTUCA* sp.

Col. No. 15446. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Plants tall, leafy.

229758 and 229759. *HORDEUM BULBOSUM* L. Poaceae. **Barley.**

229758. Col. No. 15030. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Perennial to 3 feet high.

229759. Col. No. 15111. Kowkun Valley, Fars. Elevation 7,500 feet. Annual; spontaneous weed to 4 feet high.

229760. *IRIS* sp. Iridaceae.

Col. No. 15639. Near Musiabad, 43 miles west of Esfahan. Elevation 7,500 feet. Flowers large, showy, purple.

229761 and 229762. *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**

229761. Col. No. 15755. 'Kaho'. Market, Babol, Caspian plain.

229762. Col. No. 15789. 'Kaho'. Market, Gorgan.

229763. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

Col. No. 15758. Market, Sari, Caspian plain.

229764. *LOLIUM PERSICUM* Boiss. & Hohen. Poaceae. **Ryegrass.**

Col. No. 15332. Twelve miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial to 1 foot high.

229739 to 229797—Continued

- 229765.** *LOTUS GEBELIA* var. *HIRSUTISSIMUS* (Ledeb.) Dinsm. Fabaceae. **Trefoil.**
Col. No. 15284. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. Bushy perennial, to 1 foot high; flowers pink and white.
- 229766.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinners Fabaceae. **California burclover.**
Col. No. 15276. Five miles north of Kermanshah. Elevation 6,000 feet.
- 229767.** *ORYZOPSIS* sp. Poaceae.
Col. No. 15570. Mountain southwest of Dastana, Chaharmahal. Elevation 10,000 feet. Slender, sparse perennial; liked by sheep and goats:
- 229768.** *PHALARIS CANARIENSIS* L. Poaceae. **Canarygrass.**
Col. No. 15497. Nine miles west of Ardabil, Azerbaijan. Elevation 6,000 feet.
- 229769.** *PHASEOLUS COCCINEUS* L. Fabaceae. **Scarlet runner bean.**
Col. No. 15733. 'Lubia'. Market, Kalow, Caspian shore. Seeds large, white.
- 229770 to 229773.** *PHASEOLUS VULGARIS* L. **Common bean.**
229770. Col. No. 15678. Near Ab'Ala, Alborz Range. Elevation 6,000 feet. Pods large; beans red-marked.
229771. Col. No. 15727. Market, Kalow, Caspian shore. Seeds large, roundish, reddish.
229772. Col. No. 15742. 'Lubia'. Market, Kalow, Caspian shore. Seeds small, pink.
229773. Col. No. 15740. 'Lubia'. Market, Babol, Caspian plain. Seeds roundish, reddish.
- 229774.** *POA PRATENSIS* L. Poaceae. **Kentucky bluegrass.**
Col. No. 15211. Dastana, south of Shahr-Kord. Small perennial forming succulent sod in moist bottomland.
- 229775.** *POA* sp.
Col. No. 15344. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Perennial to 3 feet high.
- 229776.** *POA* sp.
Col. No. 15961. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Small, purple-topped perennial.
- 229777.** *POA PRATENSIS* L. **Kentucky bluegrass.**
Col. No. 15466. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Perennial in meadow.
- 229778.** *POA PRATENSIS* L.
Col. No. 15524. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet. Leafy perennial growing among rocks.
- 229779.** *POA* sp.
Col. No. 15557. Near Zanjan.
- 229780.** *POA* sp.
Col. No. 15488. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Elevation 8,500 feet.
- 229781.** *POA* sp.
Col. No. 15493. Thirteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet. Plants vigorous, leafy.
- 229782.** *POA* sp.
Col. No. 15530. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet. Sod-forming, leafy perennial.

229739 to 229797—Continued

229783. POLYPOGON sp. Poaceae.

Col. No. 15261. Ten miles south of Esfahan along road to Shiraz. July 16, 1955. Spreading annual.

229784. POLYPOGON sp.

Col. No. 15262. Ten miles south of Esfahan along road to Shiraz. Perennial eaten by livestock.

229785 and 229786. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

229785. Col. No. 15783. Market, Gorgan.

229786. Col. No. 15784. Market, Gorgan.

229787. ROSA sp. Rosaceae.

Col. No. 15668. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet. Shrub to 5 feet high.

229788. ROSA sp.

Col. No. 15689. Gach Sar, Alborz Range. Elevation 6,800 feet.

229789. RUMEX sp. Polygonaceae.

Col. No. 15536. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Spreading, mat-like herb; to 2 inches high; racemes red.

229790. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

Col. No. 15728. 'Conjet'. Market, Kalow, Caspian shore. Cultivated for oil and for pastry topping.

229791. ECHINOCHLOA sp. Poaceae.

Col. No. 15491. Thirteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet.

229792. SPINACIA OLERACEA L. Chenopodiaceae. **Common spinach.**

Col. No. 15774. 'Espinage'. Market, Gorgan.

229793. TRIGONELLA FOENUM-GRACECUM L. Fabaceae. **Fenugreek.**

Col. No. 15767. Market, Sari, Caspian plain. Annual.

229794. LATHYRUS CHLORANTHUS Boiss. Fabaceae. **Peavine.**

Col. No. 15292. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955.

229795 and 229796. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

229795. Col. No. 15756. 'Lubia'. Market, Babol, Caspian plain.

229796. Col. No. 15793. Market, Gorgan. Seeds small; brown and white.

229797. ZEA MAYS L. Poaceae. **Corn.**

Col. No. 15406. Market, Maragheh, Azerbaijan. Elevation 6,300 feet.

229798 and 229799.

From Finland. Seeds presented by the Plant Breeding Station, Tammisto. Received Nov. 4, 1955.

229798. TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover.**

229799. TRIFOLIUM PRATENSE L. **Red clover.**

229800 to 229803.

From Thailand. Plant material presented by the Agriculture Division, International Cooperation Administration, Bangkok. Received Nov. 7, 1955.

229800. LANSIUM sp. Meliaceae.

Budwood.

229800 to 229803—Continued

229801 to 229803. *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**

Cuttings.

229801. 'Abol'.

229802. 'Kacai'.

229803. 'Ooi Hok'.

229804. *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**

From Australia. Tubers presented by the Department of Agriculture, Sydney, New South Wales. Received Oct. 18, 1955.

'Walanga'.

229805. *CAMELLIA RUSTICANA* Honda Theaceae.

From Japan. Seeds presented by Prof. Inokouma, Lake Tazawa, Akita Prefecture. Received Nov. 4, 1955.

229806 to 229821.

From New York. Seeds held at the Regional Plant Introduction Station, Geneva. Numbered Nov. 7, 1955.

229806. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

No. 55-30. 'Takii Gem'. From Takii & Co., Kyoto, Japan, through Cornell University, Ithaca, N. Y. Very early; fruits small, resemble 'New Hampshire Midget', grayish-green.

229807. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

No. 55-31. 'Early Korean' × 'Jaune Canari' (North African Honeydew) *C. melo* var. *reticulatus* × var. *inodorous*). Early honeydew melon adapted to New Hampshire.

229808. *CUCUMIS SATIVUS* L. **Cucumber.**

No. 55-64. P200 × SMR 12-12. From Ontario Agricultural College, Guelph, Ontario. Resistant to mosaic and scab.

229809 and 229810. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

Genetic testers from the Agricultural Experiment Station, Durham, New Hampshire.

229809. 'D-a-c-l-r-y'.

229810. 'D-p-o-s-r-y'.

229811. *PHASEOLUS ANGULARIS* (Willd.) M. F. Wight Fabaceae. **Adzuki bean.**

No. 55-106. 'Ward'. Early strain from China.

229812 to 229821. *PHASEOLUS VULGARIS* L. **Common bean.**

229812 to 229816. From the Agricultural Experiment Station, Durham.

Bush type.

229812. No. 55-104. H-1. Seeds very large, pink, mottled with red.

229813. No. 55-105. R-2. Seeds bright red.

229814. No. 55-107. B-1. Blue-pod snap.

229815. No. 55-108. B-2. Blue-pod snap.

229816. No. 55-109. B-3. Blue-pod snap.

229817 to 229821. Pole type cultivated in Geneva; originally from Italy.

229817. No. 55-148. 'Flynn No. 1'. Seeds large, deep tan, purple markings.

229818. No. 55-149. 'Flynn No. 2'. Seeds large, flat, light tan; bright purple markings.

229806 to 229821—Continued**229812 to 229821—Continued****229817 to 229821—Continued**

229819. No. 55-150. 'Flynn No. 3'. Seeds angular oval, light tan; purple markings.

229820. No. 55-151. 'Flynn No. 4'. Seeds rectangular oval, tan.

229821. No. 55-152. 'Flynn No. 5'. Seeds very plump, oval angular, light tan, speckled black.

229822. MELILOTUS ITALICA (L.) Lam. Fabaceae.**Annual yellow sweetclover.**

From Spain. Seed presented by the Estación Experimental de Aula Dei, Zaragoza. Received Nov. 7, 1955.

Originally from the Madrid Botanical Garden.

229823 to 229879.

From The Union of South Africa. Seeds presented by the College of Agriculture and Experiment Station, Potchefstroom, Transvaal. Received Nov. 7, 1955.

229823. SORGHUM BASUTORUM Snowden Poaceae.

'Red Durra'.

229824 and 229825. SORGHUM CAUDATUM (Hack.) Stapf

229824. 'Apeli'.

229825. 'Orando'.

229826 and 229827. SORGHUM NERVOSUM Chiov.

229826. Originally from Tokio.

229827. 'Kaoliang 1718'.

229828. SORGHUM NIGRICANS (Ruiz & Pav.) Snowden

'Louis Trichardt A36'.

229829 to 229831. SORGHUM VULGARE Pers.

229829. 'Birdproof'.

229830. 'Birdproof - Shapiro'.

229831. 'Early Sumac'.

229832 to 229879. SORGHUM VULGARE var. CAFFRORUM (Retz.) Hubb. & Rehd.

229832. P3727. **229845.** P3740.

229833. P3728. **229846.** P3741.

229834. P3729. **229847.** P3742.

229835. P3730. **229848.** P3743.

229836. P3731. **229849.** P3744.

229837. P3732. **229850.** P3745.

229838. P3733. **229851.** P3746.

229839. P3734. **229852.** P3747.

229840. P3735. **229853.** P3748.

229841. P3736. **229854.** P3749.

229842. P3737. **229855.** P3750.

229843. P3738. **229856.** P3751.

229844. P3739. **229857.** 'Bergville Red'.

229823 to 229879—Continued

229823 to 229879—Continued

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| 229858. 'Early Dwarf'. | 229869. 'Pretoria Pink'. |
| 229859. 'Fort Cox 11'. | 229870. 'Red ex Louw'. |
| 229860. 'Fort Cox 41'. | 229871. 'Red ex Louw'. |
| 229861. 'Lady Frere Red'. | 229872. 'Red ex Mafeking'. |
| 229862. 'Lydenburg Red'. | 229873. 'Red Fort Hays'. |
| 229863. 'Makaya Red'. | 229874. 'Red Kaffircorn'. |
| 229864. 'Matlabas Tall Red'. | 229875. 'Rustenburg Red'. |
| 229865. 'Mimosa Park'. | 229876. 'Short Red ex Glen'. |
| 229866. 'Natal Red'. | 229877. 'Thimba Red'. |
| 229867. 'Pietersburg Baker'. | 229878. 'Tiba Red'. |
| 229868. 'Pietersburg Red'. | 229879. 'W. W. R. Red'. |

229880 to 229882.

From Okinawa. Plant material presented by the Economic and Finance Department, United States Civil Administration to the Ryukyu Islands, San Francisco, Calif. Received Nov. 8, 1955.

229880. *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

'Hozanesis'. Genka Haneji-Son, Northern Okinawa in the Tobaru-Yama Mountain. Aug. 30, 1955. (Seeds.)

229881. *TUTCHERIA VIRGATA* (Koidz.) Nakai Theaceae.

Genka Haneji-Son, Northern Okinawa in the Tobaru-Yama Mountain. Collected Aug. 30, 1955. (Seeds.)

229882. *LILIUM CALLOSUM* Sieb. & Zucc. Liliaceae. **Lily.**

'Flaviflorum'. Yaezu-Kake in Shimatiri-Gun, Southern Okinawa. (Bulbs.)

229883. *VICIA PANNONICA* Crantz Fabaceae. **Hungarian vetch.**

From England. Seeds presented by P. E. Taylor, Stanton-on-the-Wolds, Keyworth, Nottinghamshire. Received Nov. 8, 1955.

'Purpurascens'.

229884 to 229890.

From Japan. Seeds presented by the Saikyo University, Saikyo, Kyoto. Received Nov. 8, 1955.

229884. *LITHOCARPUS EDULIS* (Makino) Rehd. Fagaceae.

229885. *LITHOCARPUS GLABRA* (Thunb.) Rehd.

229886. *QUERCUS GILVA* Blume Fagaceae.

Oak.

229887. *QUERCUS GLAUCA* Thunb.

Blue Japanese oak.

229888. *QUERCUS SESSILIFOLIA* Blume

Oak.

229889 and 229890. *QUERCUS PHILLYRAEOIDES* A. Gray

Oak.

229889. Typical form.

229890. 'Crispa'.

229891 to 229903. *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**

From Peru. Tubers presented by the American Embassy, Lima. Received Nov. 8, 1955.

229891 to 229903—Continued

229891. C.O. 2109.	229898. C.O. 2122.
229892. C.O. 2111.	229899. C.O. 2126.
229893. C.O. 2114.	299900. C.O. 2128.
229894. C.O. 2115.	229901. C.O. 2130.
229895. C.O. 2117.	229902. C.O. 2132.
229896. C.O. 2119.	229903. C.O. 2137.
229897. C.O. 2120.	

229904. PSYCHOTRIA UNDATA Jacq. Rubiaceae.

From Florida. Plant growing at the United States Plant Introduction Station, Miami. Numbered Nov. 8, 1955.

229905. LOTUS PEDUNCULATUS Cav. Fabaceae.**Trefoil.**

From Belgium. Seeds presented by A. Van Slijcken, Antwerp. Received Nov. 9, 1955.

229906 to 229972.

From Iran. Seeds collected by H. S. Genty, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 9, 1955.

Collected July to September, 1955, unless otherwise noted.

229906. AELUROPUS LITTORALIS (Gouan) Parl. Poaceae.

Col. No. 15365. Southern plain of Lake Rezaiyeh, Azerbaijan. Elevation 5,700 feet. Perennial salt grass in spring flood area.

229907 to 229909. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae.**Crested wheatgrass.**

229907. Col. No. 15643. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Leafy bunchgrass.

229908. Col. No. 15801. Alborz Range, between Gorgan and Shahrud. Elevation 6,200 feet. Xerophytic perennial.

229909. Col. No. 15817. Thirteen miles west of Firuzkuh, Alborz Range. Xerophytic bunch perennial.

229910. AGROPYRON sp.

Col. No. 15564. Mountains southwest of Dastana, Chaharmahal. Elevation 9,500 feet. Perennial bunchgrass to 3 feet high; leaves thin.

229911. AGROPYRON sp.

Col. No. 15595. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Perennial to 3 feet high.

229912. AGROPYRON BRACHYPHYLLUM Boiss. & Haussk.**Wheatgrass.**

Col. No. 15596. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet.

229913. AGROPYRON sp.

Col. No. 15608. East slope of Kuhe Zard, Chaharmahal. Elevation 9,000 feet. Perennial on rocky slope.

229914. AGROPYRON CAESPITOSUM Koch**Wheatgrass.**

Col. No. 15623. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tall leafy perennial, on rocky slopes.

229915. AGROPYRON sp.

Col. No. 15636. Dastana, Chaharmahal. Perennial on rocky limestone slope.

229916 and 229917. AGROPYRON TRICHOPHORUM (Link) Richt.**Stiffhair wheatgrass.**

229906 to 229972—Continued**229916 to 229917—Continued**

229916. Col. No. 15644. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Leafy perennial to 16 inches high.

229917. Col. No. 15645. South slope of Damavand Mountain, Alborz Range.

229918. *AGROPYRON INTERMEDIUM* (Host.) Beauv. **Wheatgrass.**

Col. No. 15649. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Tall, slender perennial.

229919. *AGROPYRON* sp.

Col. No. 15650. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Perennial on rocky slope.

229920. *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**

Col. No. 15651. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Colonial perennial on rocky slope.

229921. *AGROPYRON* sp.

Col. No. 15654. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Perennial; leaves few.

229922. *AGROPYRON* sp.

Col. No. 15665. South slope of Damavand Mountain, Alborz Range. Elevation 10,400 feet. Fine leaved perennial; stems to 2 feet high.

229923. *AGROPYRON* sp.

Col. No. 15676. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Slender, colonial perennial, to 2.5 feet high.

229924. *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**

Col. No. 15684. Gach Sar, Alborz Range. Elevation 6,800 feet.

229925. *AGROPYRON ELONGATIFORME* Drob. **Wheatgrass.**

Col. No. 15688. Gach Sar, Alborz Range. Elevation 6,800 feet. Slender perennial cut for hay.

229926. *AGROPYRON* sp.

Col. No. 15715. Twenty miles south of Kalow, Caspian slope of Alborz. Elevation 4,000 feet. Perennial; stems leafy.

229927. *AGROPYRON* sp.

Col. No. 15800. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Xerophytic perennial.

229928. *AGROPYRON TRICHOPHORUM* (Link) Richt. **Stiffhair wheatgrass.**

Col. No. 15816. Thirteen miles west of Firuzkuh, Alborz Range. Elevation 7,300 feet. Xerophytic perennial.

229929. *APERA INTERRUPTA* L. Poaceae.

Col. No. 15346. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Perennial forming colonies in moist soil.

229930. *ALOPECURUS MYOSUROIDES* Huds. Poaceae.

Col. No. 15496. Nine miles west of Ardabil, Azerbaijan. Elevation 6,000 feet. Annual weed.

229931. *ALYSSEUM*. Brassicaceae.

Col. No. 15765. 'Ghondomeh'. Market, Sari, Caspian plain. Seeds used for medicinal purposes.

229932. *ANDROPOGON* sp. Poaceae.

Col. No. 15652. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Sparsely-leaved caespitose perennial.

229906 to 229972—Continued

229933. *ANDROPOGON* sp. Poaceae.

Col. No. 15671. Near Ab'Ali, Alborz Range. Small tufted perennial on dry slope.

229934. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15674. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Palatable perennial along ditches.

229935. *STIPA REDOWSKII* Trin. Poaceae. **Needlegrass.**

Col. No. 15705. Thirty miles south of Kalow, Caspian side, Alborz Range. Elevation 6,500 feet. Slender Perennial with long curving culms on rocky slope.

229936. *ARISTIDA* sp. Poaceae.

Col. No. 15707. Twenty-eight miles south of Kalow, Caspian side, Alborz Range. Elevation 6,000 feet.

229937. *ARISTIDA* sp.

Col. No. 15797. Fifty-four miles east of Gorgan. Elevation 1,200 feet. Perennial to 3 feet high; leaves few.

229938. *BROMUS SCOPARIUS* L. Poaceae. **Broom brome.**

Col. No. 15338. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Small, stooling annual.

229939 and 229940. *BROMUS SYRIACUS* Boiss. & Blanche **Brome.**

229939. Col. No. 15687. Garh Sar, Alborz Range. Elevation 7,000 feet. Cespitose xerophytic perennial cut for hay.

229940. Col. No. 15700. Thirty miles south of Kalow, Caspian slope of Alt orz. Elevation 6,500 feet. Perennial forming bushy clumps.

229941. *CALAMAGROSTIS* sp. Poaceae.

Col. No. 15452. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Scattered perennial with single culms to 2 feet high.

229942. *CUPRESSUS* sp. Pinaceae. **Cypress.**

Col. No. 15716. Twelve miles south of Kalow, Caspian slope, Alborz. Large tree.

229943. *DESCHAMPSIA* sp. Poaceae.

Col. No. 15458. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Meadow species.

229944 and 229945. *DIANTHUS CARYOPHYLLUS* L. Silenceae. **Carnation.**

229944. Col. No. 15605. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Flowers pink.

229945. Col. No. 15670. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Flowers pink; stems long.

229946. *HETERANTHELIUM PILIFERUM* (Russ.) Jaub. & Spach. Poaceae.

Col. No. 15251. Canyon above Dastana, south of Shahr-Kord. Elevation 7,500 feet. Annual to 6 inches high on rocky slope.

229947. *FESTUCA* sp. Poaceae.

Col. No. 15043. Dasht Arjan, Fars. June 15, 1955. Elevation 6,600 feet. Perennial grass; closely grazed.

229948. *GLYCERIA* sp. Poaceae.

Col. No. 15527. Northeast side of Kuhe Savalan, Azerbaijan. Plant beautiful, purple-topped, hydrophytic, perennial to 4 feet high.

229949. *HORDEUM VULGARE* L. Poaceae. **Barley.**

Col. No. 15754. 'Joh'. Market, Babol, Caspian plain. A black type.

229906 to 229972—Continued**229950.** HORDEUM VULGARE L.**Barley.**

Col. No. 15772. Market, Grogan.

229951. JUNIPERUS sp. Pinaceae.

Col. No. 15803. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Erect, bushy tree to 40 feet high.

229952. JUNIPERUS sp.

Col. No. 15804. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Spreading shrub to 2 feet high; forming large deep mats.

229953. KOELERIA CRISTATA (L.) Pers. Poaceae.

Col. No. 15504. Northeast slope of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Perennial on dry meadow slopes.

229954 and 229955. MEDICAGO SATIVA L. Fabaceae.**Alfalfa.****229954.** Col. No. 15583. Seven miles northwest of Shahr-Kord, Chaharmahal Elevation 7,000 feet.**229955.** Col. No. 15647. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet.**229956.** MELICA sp. Poaceae.

Col. No. 15190. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. Cespitose perennial in rock piles.

229957. MELILOTUS OFFICINALIS (L.) Lam. Fabaceae.**Yellow sweetclover.**

Col. No. 15585. Seven miles northwest of Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Low, bushy species.

229958. PHLEUM PHLEOIDES (L.) Karst. Poaceae.**Timothy.**

Col. No. 15306. Forty miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. Annual.

229959. PLANTAGO sp. Plantaginaceae.

Col. No. 15591. Kuhe Rang, Chaharmahal. Elevation 8,000 feet. Used locally for medicine.

229960. PLANTAGO sp.

Col. No. 15768. Market, Sari, Caspian plain. Seed used as a laxative.

229961. POA STERILIS Bieb. Poaceae.**Bluegrass.**

Col. No. 15429. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Tufted perennial on rocky slope.

229962. POA STERILIS Bieb.**Bluegrass.**

Col. No. 15470. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Tall, tough, cespitose xerophytic perennial; roots strong, coarse; closely grazed.

229963. POA sp.

Col. No. 15520. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Plants small, growing among rocks; leaves tender.

229964. SECALE sp. Poaceae.

Col. No. 15664. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet. Perennial; stems coarse.

229965. SORGHUM HALEPENSE (L.) Pers. Poaceae.**Johnsongrass.**

Col. No. 15714. Twenty miles south of Kalow, Caspian slope of Alborz. Elevation 4,000 feet. Tall, caney perennial.

229966. TRIFOLIUM REPENS L. Fabaceae.**Whiteclover.**

Col. No. 15656. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet.

229966 to 229972—Continued

229967. *TRIFOLIUM RESUPINATUM* L. **Persian clover.**

Col. No. 15571. Dastana, Chaharmahal.

229968. *CORONILLA VARIA* L. Fabaceae. **Crownvetch.**

Col. No. 15562. Dastana, Chaharmahal. Elevation 6,800 feet. Spreading perennial; stems to 2 feet long; liked by animals.

229969 and 229970. *VICIA VILLOSA* Roth Fabaceae. **Hairy vetch.**

229969. Col. No. 15559. Esfahan. Elevation 5,300 feet. Annual, winter and spring herb.

229970. Col. No. 15582. Seven miles northwest of Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Spontaneous herb; flowers purple.

229971 *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 15579. Saman, Chaharmahal.

229972. (Undetermined.) Brassicaceae.

Col. No. 14885. Fourteen miles south of Esfahan. May 26, 1955. Elevation 5,000 feet. Small, gray-canescens, sedum-like, herbaceous perennial; attractive ornamental border plant.

229973. *CAMELIA HONGKONGENSIS* Seem. Theaceae.

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria. Received Nov. 8, 1955.

229974 to 229983.

From Spain. Seeds collected by J. R. Furr, Valencia. Received Nov. 10, 1955.

From Castellon de la Plana, unless otherwise noted.

229974 and 229975. *CITRUS RETICULATA* Blanco Rutaceae. **Mandarin orange.**

229974. 'Seedless Clementine'. Collected at Albalat dels Sorells.

229975. 'Mandarina Comun'. Seeds slightly flattened, prolific, good quality.

229976 to 229983. *CITRUS SINENSIS* (L.) Osbeck **Sweet orange.**

229976. 'Communa'. Fruits large, round, seedy.

229 77. 'Doblefina'. Fruits smooth, oval, medium sized; juice reddish.

229978. 'En refina'. Fruits with rough skin, medium sized; juice reddish.

229979. 'Salustiana'. Fruits round, nearly seedless, medium sized, ripens early.

229980. 'Salustiana'. Fruits round, nearly seedless, medium sized, ripens early.

Collected at Albalat Dels Sorells.

229981. 'Sanguinelli'. Fruits medium sized, high quality; juice red.

229982. 'Verna'. Fruits medium sized, oval, late ripening.

229983. 'Viciedo'. Fruits round; seeds few; ripens midseason.

229984 and 229985. *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**

From Hawaii. Cuttings presented by the Experiment Station, Hawaiian Sugar Planters Association, Honolulu. Received Nov. 10, 1955.

229984. Mol. 4826.

229985. Mol. 5193.

229986. *ORYZA SATIVA* L. Poaceae. **Rice.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Nov. 14, 1955.

'Chinoor'. Supplied by the Government of Madhya Pradesh.

229987. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From Iran. Seeds presented by G. H. Blackmon, Mashad. Received Nov. 14, 1955. 'Shakhteh'. Long, green, gray-striped melon; flesh sweet, firm; moderately smooth.

229988 to 230079.

From Great Britain. Plants presented by the Knap Hill Nursery, Woking, Surrey, England. Received Nov. 14, 1955.

229988 to 230073. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.

Azalea.

Knap Hill Hybrids.

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| 229988. 'Ada Brunieres'. | 230024. 'Knap Hill Yellow'. |
| 229989. 'Albatross'. | 230025. 'Lady Derby'. |
| 229990. 'Ann Callingham'. | 230026. 'Lady Rosebery'. |
| 229991. 'Avocet'. | 230027. 'Lapwing'. |
| 229992. 'Barbara Jenkinson'. | 230028. 'Linnet'. |
| 229993. 'Bullfinch'. | 230029. 'Marion Merriman'. |
| 229994. 'Buzzard'. | 230030. 'Mephistopheles'. |
| 229995. 'Chaffinch'. | 230031. 'Merlin'. |
| 229996. 'Colin Kendrick'. | 230032. 'Mrs. S. Waterer'. |
| 229997. 'Donald Waterer'. | 230033. 'Mrs. Gomer Waterer'. |
| 229998. 'Eva Goude'. | 230034. 'Muriel Watson Jones'. |
| 229999. 'Firecrest'. | 230035. 'Penguin'. |
| 230000. 'Fireglow'. | 230036. 'Peregrine'. |
| 230001. 'Flaming June'. | 230037. 'Red Indian'. |
| 230002. 'Florence Pilington'. | 230038. 'Redstart'. |
| 230003. 'Gannett'. | 230039. 'Rosella'. |
| 230004. 'Goldcrest'. | 230040. 'Ruth Davies'. |
| 230005. 'Goldfinch'. | 230041. 'Sandpiper'. |
| 230006. 'Golden Eagle'. | 230042. 'Satan'. |
| 230007. 'Golden Oriole'. | 230043. 'Spoonbill'. |
| 230008. 'Goldeneye'. | 230044. 'Sunset'. |
| 230009. 'Gwenda Kitkat'. | 230045. 'Sylphides'. |
| 230010. 'Gwyneth'. | 230046. 'Tanager'. |
| 230011. 'Hawfinch'. | 230047. 'Toucan'. |
| 230012. 'Heron'. | 230048. 'Troupial'. |
| 230013. 'Hiawatha'. | 230049. 'Violet Gordon'. |
| 230014. 'Homebush'. | 230050. 'Viscosepala'. |
| 230015. 'Hoopoe'. | 230051. 'Whitethroat'. |
| 230016. 'Iora'. | 230052. 'Wryneck'. |
| 230017. 'Jock Coutts'. | 230053. 'Yaffle'. |
| 230018. 'Kestrel'. | 230054. 'Ambroise Verschaffell'. |
| 230019. 'Knap Hill Apricot'. | 230055. 'Chevalier de Reali'. |
| 230020. 'Knap Hill Orange'. | 230056. 'Chicago'. |
| 230021. 'Knap Hill Pink'. | 230057. 'Consul Ceresole'. |
| 230022. 'Knap Hill Red'. | 230058. 'Dr. Reitenbach'. |
| 230023. 'Knap Hill White'. | 230059. 'F. de Koninek'. |

229988 to 230079—Continued**229988 to 230073—Continued**

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|-------------------------------------|----------------------------------|
| 230060. 'Frans van dev Bom'. | 230067. 'King Albert'. |
| 230061. 'General Velter'. | 230068. 'Marmion'. |
| 230062. 'Goldball'. | 230069. 'Nicholas Beets'. |
| 230063. 'Golden Sunlight'. | 230070. 'Queen Emma'. |
| 230064. 'Hamlet'. | 230071. 'Queen Sophie'. |
| 230065. 'Hugo Koster'. | 230072. 'Robespierre'. |
| 230066. 'Jeanne Oosthoek'. | 230073. 'T. J. Seidel'. |

230074 to 230079. RHODODENDRON (hybrids).

- | | |
|-------------------|--|
| 230074. A. | 230077. E. |
| 230075. C. | 230078. 'Exbury Azalea Brazil'. |
| 230076. D. | 230079. 'NYS 33'. |

230080. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From Spain. Seeds collected by J. R. Furr, Carcagente. Received Nov. 15, 1955. 'Cadenera'.

230081 and 230082.

From Japan. Seeds presented by the University of Tokyo, Hongo, Tokyo. Received Nov. 15, 1955.

230081. CAMELLIA RUSTICANA Hondo Theaceae.

From Toka-machi, Niigata Prefecture.

230082. SYMPLOCOS COREANA (Leveille) Ohwi Symplocaceae.

From Dando National Forest, Aichi Prefecture.

230083 to 230101.

From New York. Plant material held at the U. S. Regional Plant Introduction Station, Geneva. Numbered Nov 15, 1955.

From native and naturalized Maryland species collected in 1955 by the Department of Agronomy, University of Maryland, College Park. Seeds unless otherwise noted.

230083. BROMUS INERMIS Leyss. Poaceae.**Brome.**

No. 19. Doughoregan Manor, Ellicott City, Howard County. Seeds from an original lot of foundation Elsberry bromegrass, second generation.

230084 and 230085. DACTYLIS GLOMERATA L. Poaceae.**Orchardgrass.**

230084. No. 1. John W Gourdy farm, Snow Hill, Worcester County. Seven-year-old stand; intermittently pastured; used for hay.

230085. No. 2 M. Hearn farm, Salisbury, Wicomico County. From a fence row; possibly a 20-year stand.

230086 to 230092. TRIFOLIUM PRATENSE L. Fabaceae.**Red clover.**

230086. No. 8. John W. Gourdy farm, Snow Hill, Worcester County. Plant growing in orchard grass; stand about 7 years old.

230087 to 230091. Wicomico County.

230087. No. 12. Near Athol Neck. Along road in tall weeds and grasses.

230088. No. 13. Near Athol Neck. Along road in tall grass and weeds.

230089. No. 15. William Bradley farm. One mile north of Hebron. Sixth generation from certified 'Kenland'.

230090. No. 16. Clayton Pilchard farm. Two miles south of Quantico. Eight-year-old stand; original source not known.

230083 to 230101—Continued

230086 to 230092—Continued

230087 to 230091—Continued

230091. No. 17. William Malchow farm, Whitehaven road, 10 miles south-west of Salisbury. Isolated for 15 years; original source unknown.

230092. No. 18. D. T. Puffenberger farm, Little Orleans, Allegany County. Ten-year-old strain; original source unknown.

230093 to 230101. TRIFOLIUM REPENS L.

Whiteclover.

230093 to 230095. Westover, Somerset County.

230093. No. 3. Carl Reilhard farm. From a 5-year-old pasture.

230094. No. 4. Clarence Hartman farm. From a 7- to 8-year-old pasture.

230095. No. 5. Clarence Hartman farm. From a 5- to 6-year-old pasture.

230096. No. 6. Olin Davis Sr. farm, Galena, Kent County. From plants growing in 8- to 9-year-old pasture.

230097. No. 7. John W. Gourdy farm, Snow Hill, Worcester County. Stand 7 years old.

230098 to 230100. Wicomico County.

230098. No. 9. Old abandoned farmstead near Quantico. Growing in tall weeds and grasses.

230099. No. 10. Old abandoned farm near Athol Neck. Plant growing in tall grass.

230100. No. 11. Abandoned farm near Athol Neck. Plant growing in weeds and tall grasses.

230101. No. 14. Southeastern shore of Maryland.

230102 to 230105. ORYZA SATIVA L. Poaceae.

Rice.

From Mexico. Seeds presented by C. Roy Adair, Tierra Blanca, Veracruz. Received Nov. 15, 1955.

230102. 'Criollo'. Field near Tierra Blanca

230103. 'Fortuna (Morado)'. Durango Ranch.

230104. 'Meco' or 'Jojutla'. Durango Ranch.

230105. 'Reata' or 'Riata'. Durango Ranch.

230106 and 230107.

From Australia. Seeds presented by Ed. Pollock, Parkes, New South Wales. Received Nov. 15, 1955.

230106. CITRUS ASSAMENSIS Dutta & Bhatt. Rutaceae.

Tree to 20 feet high, very thorny; foliage moderately dense; susceptible to gummosis and canker. Fruits September to November.

230107. CITRUS MACROPTERA Mont.

Tree to 50 feet high, very thorny, thickly branched; said to be hardy and long-lived. Fruits November to January.

230108. SCHEFFLERA ACTINOPHYLLA (Endl.) Harms Araliaceae.

From Cuba. Seeds presented by Atkins Garden, Cienfuegos. Received Nov. 15, 1955.

230109. AESCULUS sp. Aesculaceae.

From France. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 16, 1955.

Col. No. 15827. Parks of Paris. Sept. 27, 1955. Tall, well-formed shade tree.

230110 to 230140.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 16, 1955.

230110. *LOLIUM PERSICUM* Boiss. & Hohen. Poaceae. **Ryegrass.**

Col. No. 15619 Faridan. Aug. 28, 1955. Elevation 7,000 feet. Grass slender; culms arched; to 16 inches high.

230111. *BROMUS* sp. Poaceae.

Col. No. 15641. Eight miles northeast of Ab'Ali, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Bunch perennial to 2 feet high on steep shale slope.

230112 to 230114 *BRACHYPODIUM PINNATUM* (L.) Beauv. Poaceae.

Japanese falsebrome.

230112. Col. No. 15699. Thirty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on rocky sedimentary slope.

230113. Col. No. 15719. Eight miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 1,000 feet. Perennial on steep sedimentary slope.

230114. Col. No. 15798. Fifty-four miles east of Gorgan. Sept. 15, 1955. Elevation 1,200 feet. Leafy-crowned perennial.

230115 and 230116. *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth.) Duby Poaceae.

230115. Col. No. 15613. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Small perennial on rocky slope.

230116. Col. No. 15653. Elevation 8,000 feet. Xerophytic perennial on rocky slopes.

230117 and 230118. *DACTYLIS GLOMERATA* L.

Orchardgrass.

230117. Col. No. 15695. Forty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,500 feet. Perennial on steep sedimentary slope.

230118. Col. No. 15701. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on sedimentary slope.

230119. *ELYMUS* sp. Poaceae.

Col. No. 15666. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet.

230120. *POA* sp. Poaceae.

Col. No. 15603. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Leafy perennial in moist soil.

230121. *FESTUCA* sp. Poaceae.

Col. No. 15655. South slope of Damavand Mountain, Alborz Range. Sept. 19, 1955. Elevation 9,300 feet. Small tufted perennial.

230122. *FESTUCA* sp.

Col. No. 15658. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Small, rather delicate perennial, in moist gulch.

230123. *FESTUCA* sp.

Col. No. 15667. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Short culm bunchgrass, in moist gulch.

230124. *AGROSTIS ALBA* L. Poaceae.

Redtop.

Col. No. 15672. Near Ab'Ali, Alborz Range. Sept. 9, 1955. Elevation 7,000 feet. Dense crowned perennial; leaves spreading; soil moist.

230125. *FESTUCA* sp. Poaceae.

Col. No. 15686. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Low perennial; leaves short, dense; soil moist.

230110 to 230140—Continued**230126.** *FESTUCA* sp.

Col. No. 15702. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Short-tufted perennial, on sedimentary rocks.

230127. *HORDEUM* sp. Poaceae.

Col. No. 15637. Dastana, Chaharmahal. Aug., 1955. Elevation 6,500 feet. Winter and spring annual on rocky soil.

230128 and 230129. *POA PRATENSIS* L. Poaceae. **Kentucky bluegrass.**

230128. Col. No. 15575. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Leafy hydrophytic perennial.

230129. Col. No. 15599. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Perennial in moist soil.

230130. *POA* sp.

Col. No. 15660. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Perennial in moist gulch.

230131. *POA* sp.

Col. No. 15661. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Perennial with numerous culms.

230132. *POA PRATENSIS* L. **Kentucky bluegrass.**

Col. No. 15663. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Colonial perennial in moist gulch.

230133. *SECALE* sp. Poaceae.

Col. No. 15205. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet. Spring annual.

230134. *SETARIA* sp. Poaceae.

Col. No. 15620. Faridan. Aug. 28, 1955. Elevation 7,000 feet. Annual weed.

230135. *SETARIA* sp.

Col. No. 15677. Near Ab'Ali, Alborz Range. Sept. 10, 1955. Elevation 6,000 feet. Tender annual weed.

230136. *SETARIA ITALICA* (L.) Beauv. **Foxtail millet.**

Col. No. 15681. 'Ar'an'. Sixteen miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 5,000 feet. Annual to 1 foot high; seeds edible, also used for bird seed.

230137. *SPOROBOLUS* sp. Poaceae.

Col. No. 15450. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Hydrophyte; foliage dense.

230138. *SPOROBOLUS* sp.

Col. No. 15451. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Black-top hydrophyte; leaf cover very dense.

230139. *STIPA* sp. Poaceae.

Col. No. 15648. South slope of Damavand Mountain, Alborz Range. Sept. 8, 1955.

230140. *STIPA* sp.

Col. No. 15703. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on rocky slope.

230141. *TELOPEA SPECIOSISSIMA* (J. E. Sm.) R. Br. Proteaceae. **Crimson waratah.**

From Australia. Seeds presented by H. G. Kershaw, Pymble, New South Wales. Received Nov. 17, 1955.

230142. CARPODETUS SERRATUS Forst. Escalloniaceae.

From New Zealand. Seeds presented by Duncan & Davies, Ltd., New Plymouth.
Received Nov. 17, 1955.

230143. LOPHANTHERA LACTESCENS Ducke Malpighiaceae.

From Brazil. Seeds presented by the Jardim Botânico, Rio de Janeiro, through
Robert Godfrey, Kendall, Fla. Received Nov. 17, 1955.

230144. ALLOPHYLUS AFRICANUS P. Beauv. Sapindaceae.

From Northern Rhodesia. Seeds presented by the Silviculturist Forest Department,
Ndola. Received Nov. 17, 1955.

230145 to 230157.

From India. Seeds presented by the Indian Botanical Garden, Calcutta. Received.
Nov. 17, 1955.

230145. ABROMA AUGUSTA L. f. Sterculiaceae.

230146. CAREYA AUSTRALIS (Benth.) F. Muell. Lecythidaceae.

230147. GAUZUMA ULMIFOLIA Lam. Sterculiaceae.

230148. HELICTERES ISORA L. Sterculiaceae.

230149. HERITIERA FOMES Buch. Ham. Sterculiaceae.

230150. HERITIERA sp.

No. 1.

230151. HERITIERA sp.

No. 2.

230152. MELOCHIA CORCHORIFOLIA L. Sterculiaceae.

230153. PTEROSPERMUM ACERIFOLIUM (L.) Willd. Sterculiaceae.

230154. PTEROSPERMUM SEMISAGITTATUM Buch.-Ham.

230155. PTERYGOTA ALATA (Roxb.) R. Br. Sterculiaceae.

230156. STERCVLIA ROXBURGHII Wall. Sterculiaceae.

Bottle tree.

230157. STERCVLIA VILLOSA Roxb.

Bottle tree.

230158 to 230173.

From India. Seeds presented by D. Raghava Reddy, Penagaluru, Cuddapah. Re-
ceived Nov. 18, 1955.

230158. ALBIZZIA AMARA (Roxb.) Boivin. Mimosaceae.

230159. BAUHINIA sp. Caesalpinaceae.

230160. BUCHANANIA LATIFOLIA Roxb. Anacardiaceae.

230161. CANTHIUM DIDYUM Roxb. Rubiaceae.

230162. CHLOROXYLON SWIETENIA DC. Rutaceae.

230163. COMBRETUM sp. Combretaceae.

230164. DALBERGIA LANCEOLARIA L. f. Fabaceae.

230165. GLYCOSMIS PENTAPHYLLA (Retz.) Correa Rutaceae.

230166. HEMICYCLIA SEPIARIA Wight & Arn. Euphorbiaceae.

230167. JASMINUM ANGUSTIFOLIUM Willd. Oleaceae.

230168. MILLINGTONIA HORTENSIS L. f. Bignoniaceae.

230169. POLYALTHIA CERASOIDES Benth. & Hook. Annonaceae.

230170. RANDIA MALABARICA Lam. Rubiaceae.

230171. RANDIA ULIGINOSA (Retz.) Poir.

230172. SAPINDUS TRIFOLIATA L. Sapindaceae.

Tree leaf soapberry.

230173. WALSTURIA PISCIDIA Roxb. Meliaceae.

230174 and 230175.

From Australia. Seeds presented by Dawson Harrison Proprietary, Limited, Perth. Received Nov. 18, 1955.

230174. BEAUFORTIA SQUARROSA Schauer Myrtaceae.

230175. GREVILLEA WILSONII A Cunn. Proteaceae.

230176. COFFEA sp. Rubiaceae.

From the Philippines. Seeds presented by A. G. Newhall, Manila. Received Nov. 18, 1955.

230177 to 230179.

From Spain. Seeds collected by J. R. Furr, Valencia. Received Nov. 28, 1955. Collected in Murcia.

230177 and 230178. CITRUS LIMON (L.) Burm. f. Rutaceae. **Lemon.**

230177. 'Primofiori'.

230178. 'Verna'. Skin thick, smooth; nipple prominent; seeds few.

230179. CITRUS SINENSIS (L.) Osbeck **Sweet orange.**

'Macetera'.

230180 and 230181.

From New York. Plants growing at the Regional Plant Introduction Station, Geneva. Numbered Nov. 21, 1955.

Originally from Turkey; collected in 1949 by J. R. Harlan.

230180. CUCURBITA MAXIMA Duchesne Cucurbitaceae. **Squash.**

Fruits flat, ribbed, about 14 inches in diameter; color brownish-gray; flesh deep orange, about 2 inches thick; late maturing.

230181. CUCURBITA PEPO L. **Pumpkin.**

Fruits globose, sharply ribbed; color dark green, 3.5 inches in diameter; flesh light orange, about 0.66 inch thick.

230182. LINUM USITATISSIMUM L. Linaceae. **Flax.**

From Yugoslavia. Seeds presented by an unknown donor, Ovcara. Received Nov. 21, 1955.

'Pfeiffer Ovcara 101'.

230183. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

From Argentina. Seeds presented by Agrolit, Rosario. Received Nov. 18, 1955.

230184 to 230186. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From Iran. Seeds presented by the United States Operations Mission to Iran, Esfahan. Received Nov. 18, 1955.

230184. No. 3. Skin yellow, somewhat thin; flavor fair.

230185. No. 2. 'Gorgab'. Skin thick, yellow; flavor good; grown in Gorgab north of Esfahan.

230186. No. 1. 'Kat Khoda Hossaini'. Green-skin variety.

230187. CITRUS sp. Rutaceae.

Origin and donor unknown. Received Nov. 18, 1955. (Budwood.)

230188. BAUHINIA sp. Caesalpinaceae.

From Florida. Plant growing at the United States Plant Introduction Station, Miami. Numbered Nov. 23, 1955.

Seed presented by Henry Field, Coconut Grove. Originally from India. No. 2.

230189. MISCANTHUS JAPONICUS (Thunb.) Oerst. Poaceae. Japanese silvergrass.

From New Caledonia Seed presented by J. Barrau, South Pacific Commission.
Noumea. Received Nov. 23, 1955.

230190. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.

From Denmark. Seeds presented by Det Kongelige Danske, Landhusholdnings-
selskab, Copenhagen. Received Nov. 28, 1955.
No. 550/21.

230191. ZINNIA ACEROSA A. Gray Asteraceae.

From Mexico Seeds presented by Jerzy Rzedowski, Universidad Autonoma de San
Luis Potosi City. Received Nov. 22, 1955.

Collected on alluvial soil at Antiguo Morelos, 3 km. south of Presa de Guadalupe.
Elevation 1,300 meters.

230192 to 230201.

From the Philippines. Seeds presented by the United States Operations Mission,
Manila. Received Nov. 22, 1955.

230192 to 230199. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

Introduced from Formosa.

230192. 'E.G.'- Local variety.

230196. 'Ta Pau Tao'.

230193. 'Husi Yuam'.

230197. 'Tirik'. Local variety

230194. 'Lao Kung Tzu Tou'.

230198. 'Touti. No. 17'.

230195. 'Lung-Toy-yo Tao'.

230199. 'Yuan Yung Tou'.

230200 and 230201. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

230200. 'Bilmoi No. 1'.

230201. 'Bilomi. No. 2'.

230202 to 230204. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Kenya. Seeds presented by H. C. Thorpe, Plant Breeding Station, Njoro.
Received Nov. 23, 1955.

230202. 'Rhodesian Sabanero'.

230203. 261. E.

230204. W. 1.

230205 to 230218. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

From the Philippines. Tubers presented by the Central Experiment Station, College,
Laguna. Received Nov. 25, 1955.

230205. 'Borneo White'.

230212. K 140.

230206. 'Borneo Red'.

230213. 'Madon'.

230207. C 162.

230214. 'Palawan No 2'.

230208. 'Dutch Kaliboru'.

230215. 'Putih Selatan'.

230209. F.A. 17.

230216. 'Samar Big Yellow'.

230210. 'Julundur'.

230217. 'Tai-nun 31'.

230211. K 2.

230218. 'Tai-nun 45'.

230219 to 230231.

From New York. Plants held at the United States Regional Plant Introduction
Station, Geneva. Numbered Nov. 23, 1955.

Plant material collected by the Department of Agronomy, Pennsylvania State
University, State College, Pennsylvania.

230219 to 230231—Continued**230219 to 230225.** *MEDICAGO SATIVA* L. Fabaceae.**Alfalfa.**

230219. No. 55-1. From the farm of R. S. Schrack, Loganton, Sugar Valley, Clinton County, Pa. Cultivated. Original seed variegated; stand sparse, about 14 years old; crown rot and probably bacterial wilt present throughout field.

230220. No. 55-2. From the farm of Louis R. Jones, Ebensburg, Cambria County, Pa. Original seed common northwest variety. Stand about 11 years old; density moderate. Crown rot and bacterial wilt found in field.

230221. No. 55-6. From the farm of Dale Corbin, Reynoldsville, Jefferson County, Pa. Cultivated; local strain for 10 years. Originally common northwest type; pure seed of this strain unavailable.

230222. No. 55-8. From the farm of C. M. Stahlman, Reynoldsville, Jefferson County, Pa. Cultivated, original seed type unknown. Stand about 10 years old; moderate density; no bacterial wilt and little crown rot found.

230223. No. 55-10. Jefferson County Home, Brookville, Pa. 'Grimm'. Cultivated, 3 plant generations removed from original stock.

230224. No. 55-11. From the farm of Bernard M. Bauer, Emorium, Cameron County, Pa. 'Grimm'. Cultivated. Stand about 13 years old; no bacterial wilt and little crown rot found in field.

230225. No. 55-13. From the farm of Howard L. Burkett, Mann's Choice, Bedford County, Pa. 'Grimm'. Cultivated. Stand about 9 years old; no bacterial wilt and little crown rot found in field.

230226 to 230231. *TRIFOLIUM PRATENSE* L. Fabaceae.**Red clover.**

230226. No. 55-3. From the farm of Fred Bechel, Nicktown, Cambria County, Pa. Cultivated; medium type. Original source of seed unknown.

230227. No. 55-4. From the farm of Harry Hill, Indiana, Indiana County, Pa. Cultivated; mammoth type. Stand about 25 years old.

230228. No. 55-5. From the farm of E. E. Griffith, Smicksburg, Indiana County, Pa. Cultivated for 38 years; medium type. Original source of seed unknown.

230229. No. 55-7. From the farm of Dale Corbin, Reynoldsville, Jefferson County, Pa. Cultivated; medium type. Stand 10 years old; original source of seed unknown. Mixed seed collected.

230230. No. 55-9. From the farm of C. M. Stahlman, Reynoldsville, Jefferson County, Pa. Cultivated; medium type. Stand 10 years old; original source unknown.

230231. No. 55-12. From the farm of J. Henry Baker, Everett, Bedford County, Pa. Cultivated; medium type; seeds harvested from this strain for about 50 years. Original source unknown.

230232 to 230277.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 28, 1955.

230232. *AGROPYRON* sp. Poaceae.

Col. No. 15453. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Rare perennial; growing on rocky slope.

230233. *AGROSTIS* sp. Poaceae.

Col. No. 15442. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Plants forming deep pasture in moist meadow.

230234. *AGROSTIS PALUSTRIS* Huds.**Creeping bent.**

Col. No. 15454. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Colonial perennial to 1 foot high.

230232 to 230277—Continued**230235.** AGROSTIS sp.

Col. No. 15574. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Perennial growing along ditch.

230236. AGROSTIS sp.

Col. No. 15598. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Small tufted perennial.

230237 and 230238. AMNI COPTICUM L. Apiaceae.

230237. Col. No. 15748. Market, Babol, Caspian plain. Sept. 13, 1955. Used for seasoning food.

230238. Col. No. 15790. 'Anis'. Market in Gorgan. Sept. 14, 1955. Cultivated; used for seasoning food.

230239. BRACHIARIA ERUCAEFORMIS (J. E. Smith) Griseb. Poaceae.

Col. No. 15581. Saman, Chaharmahal. Aug. 25, 1955. Elevation 6,500 feet. Weedy, succulent annual.

230240. FESTUCA sp. Poaceae.

Col. No. 15696. Thirty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,000 feet. Thin, colonial perennial.

230241. BRACHYPODIUM sp. Poaceae.

Col. No. 15697. Thirty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,000 feet. Tall perennial on cliff.

230242. CALAMAGROSTIS sp. Poaceae.

Col. No. 15662. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Rather coarse perennial in moist gulch.

230243. DAUCUS CAROTA L. Apiaceae.**Carrot.**

Col. No. 15393. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet.

230244. ECHINOCHLOA sp. Poaceae.

Col. No. 15673. Near Ab'Ali, Alborz Range. Sept. 10, 1955. Elevation 6,000 feet. Tall, rather succulent annual.

230245. EREMURUS sp. Liliaceae.

Col. No. 15117. Kowkun Valley, Fars. June 28, 1955. Elevation 7,500 feet.

230246. FESTUCA sp. Poaceae.

Col. No. 15267. Nineteen miles west of Hamedan July 24, 1955. Elevation 9,000 feet. Thin-leaved, tufted perennial; crown to 6 inches high. Browsed.

230247. FESTUCA sp.

Col. No. 15272. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Tufted perennial.

230248. FESTUCA KRONENBURGII Hack.**Fescue.**

Col. No. 15682. Nineteen miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 6,000 feet. Large, coarse bunchgrass.

230249. PUCCINELLIA sp. Poaceae.

Col. No. 15364. Southern plain of Lake Rezaiyeh, Azerbaijan. July 31, 1955. Perennial forming loose cover.

230250. GLYCERIA sp. Poaceae.

Col. No. 15456. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Leafy grass with silvery panicles.

230251. GYPSOPHILA sp. Silenaceae.

Col. No. 15815. Ten miles west of Firuzkuh, Alborz Range. Sept. 17, 1955. Elevation 6,800 feet. Cushion plant forming smooth bluish-green pillows on rocks.

230232 to 230277—Continued

230252. *HERACLEUM* sp. Apiaceae.

Col. No. 15602. East base of Kuhe Zard, Chaharmahal. Aug. 7, 1955. Elevation 8,500 feet. Wild perennial; seeds used for seasoning.

230253. *HERACLEUM* sp.

Col. No. 15752. Babol, Caspian plain. Sept. 13, 1955. Seeds used in pickling.

230254. *HORDEUM TURKESTANICUM* Nevski Poaceae.

Barley.

Col. No. 15669. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 10,000 feet. Coarse, bunch perennial.

230255. *HORDEUM* sp.

Col. No. 15447. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial thriving on dry meadow slopes.

230256. *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15506. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Red-stemmed perennial.

230257. *LALLEMANTIA IBERICA* (Bieb.) Fisch. & May. Menthaceae.

Col. No. 15357. Thirty miles south of Saghez, Kurdistan. July 29, 1955. Elevation 8,000 feet. Annual herb to 2 feet high. Seed used for oil and on bread.

230258. *LALLEMANTIA* sp.

Col. No. 15769. 'Shaibahti'. Market, Sari, Caspian plain. Sept. 14, 1955. Seeds used as medicine.

230259. *LALLEMANTIA PELATA* (L.) Fisch. & Mey.

Col. No. 15775. 'Babuneh'. Market, Gorgan. Sept. 14, 1955. Spicy herb; eaten with bread and cheese.

230260. *LOLIUM PERENNE* L. Poaceae.

Ryegrass.

Col. No. 15295. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Leafy perennial used for hay.

230261. *MELICA* sp. Poaceae.

Col. No. 15566. Mountain southwest of Dastana, Chaharmahal. Aug. 23, 1955. Elevation 10,000 feet. Fine-leaved perennial; culms 1 foot high.

230262. *MELICA* sp.

Col. No. 15612. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,500 feet. Delicate perennial among rocks.

230263. *MELICA* sp.

Col. No. 15646. South slope of Damavand Mountain, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Xerophytic perennial.

230264. *MELICA* sp.

Col. No. 15698. Thirty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on sedimentary slope.

230265. *SATUREJA HORTENSIS* L. Menthaceae.

Summer savory.

Col. No. 15779. 'Marzeh'. Market in Gorgan. Sept. 15, 1955. Plant used as a green leafy spice or relish vegetable.

230266. *ORYZOPSIS* sp. Poaceae.

Col. No. 15642. Eight miles northeast of Ab'Ali, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Perennial in broad bunches; culms numerous, 20 inches high.

230267. *PHALARIS* sp. Poaceae.

Col. No. 15486. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Aug. 6, 1955. Elevation 8,500 feet. Small, tufted perennial.

230232 to 230277—Continued

230268. *PHLEUM ALPINUM* L. Poaceae. **Alpine timothy.**

Col. No. 15475. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet. Small perennial.

230269. *RUMEX* sp. Polygonaceae.

Col. No. 15593. Kuhe Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet. Tall herb on rocky slope; seeds edible.

230270. *RUMEX* sp.

Col. No. 15609. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Seeds used in medicine.

230271. *SOPHORA ALOPECUROIDES* L. Fabaceae.

Col. No. 15160. 'Makh safid'. Bavanat Valley, Fars. July 1, 1955. Elevation 7,000 feet. An erect perennial to 1.5 feet high; flowers white; used as green manure in orchards.

230272. *SOPHORA* sp.

Col. No. 15622. 'Mayju'. Northwest of Damaneh, Faridan. Aug. 28, 1955. Elevation 7,000 feet. Widespread, deep-rooted perennial; used as green manure.

230273. *STIPA* sp. Poaceae.

Col. No. 15818. Between Firuzkuh and Damavand, Alborz Range. Sept. 17, 1955. Elevation 7,500 feet. Xerophytic, palatable perennial.

230274. *TRIFOLIUM HYBRIDUM* L. Fabaceae. **Alsike clover.**

Col. No. 15439. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Leafy, spreading perennial growing in moist meadow; flowers pink.

230275. *VICIA NARBONENENSIS* L. Fabaceae. **Vetch.**

Col. No. 15042. Dasht Arjan, Fars. June 15, 1955. Elevation 6,600 feet. Annual broad-leaved herb.

230276. (Undetermined). Menthaceae.

Col. No. 15266. Near Esfahan. July 16, 1955. Elevation 5,500 feet. Aromatic, ornamental and fragrant herb.

230277. (Undetermined.) Apiaceae.

Col. No. 15307. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Growing among rocks; used for seasoning food.

230278. *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-Cho, Aichi-ken. Received Nov. 29, 1955.

230279 to 230318.

From Mexico. Roots collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 29, 1955.

230279 to 230292. *DIOSCOREA COMPOSITA* Hemsl. Dioscoreaceae. **Yam.**

230279. Col. No. 15854. 'Barbasco'. Los Mangas, Rancho Progreso, 5 miles south of Tierra Blanca, Veracruz. Nov. 5, 1955. Vines rather dense in milpa clearing.

230280. Col. No. 15855. 'Barbasco'. Five miles south of Tierra Blanca, near Rancho Candelario, Veracruz. Nov. 5, 1955. Vines scattered; roots nearly white; soil rich, black, moist clay.

230281. Col. No. 15856. Seven miles south of Tierra Blanca at Rancho Loma del Carmen. Forest patch in savanna, Veracruz. Nov. 6, 1955. Vines large, vigorous, in shade; roots white or reddish; soil deep clay.

230279 to 230318—Continued**230279 to 230292—Continued**

- 230282.** Col. No. 15858. Temescal, Oaxaca. In milpa clearing; a foot of dark brown forest soil over laterite. Nov. 6, 1955. Small shoots from scattered tubers; roots white to reddish.
- 230283.** Col. No. 15859. Arroyo Chuapa, 8 miles west of Tuxtepec, Oaxaca. Milpa clearing. Nov. 7, 1955. New shoots from partially dug plants; roots white to reddish.
- 230284.** Col. No. 15860. Fifteen to 22 miles west of Tuxtepec, Oaxaca. For-
rested limestone slope. Nov. 7, 1955. Plants small to large; new shoots from
cut stems in cleared land.
- 230285.** Col. No. 15861. Fifteen miles west of Tuxtepec, Oaxaca. Nov. 7,
1955. Vine climbing to 30 feet, 3 stems from the base; leaves large.
- 230286.** Col. No. 15864. 'Barbasco'. Seven miles south of Tierra Blanca,
Loma del Carmen, Veracruz. Forest patch in savanna. Nov. 8, 1955. Vine
large; root horizontal, white.
- 230287.** Col. No. 15869. 'Barbasco'. Fourteen miles south of Santiago
Tuxtla, Veracruz. Nov. 9, 1955. Low evergreen silva. Elevation 500 feet.
Vines coarse, climbing; roots tuberous, mostly white.
- 230288.** Col. No. 15871. One mile north of San Andres Tuxtla, Veracruz.
Nov. 9, 1955.
- 230289.** Col. No. 15872. Ten miles east of San Andres Tuxtla along road to
Puerto Mexico, Veracruz. Nov. 10, 1955. Vine large; roots white to reddish.
- 230290.** Col. No. 15873. Fourteen miles east of San Andres Tuxtla along road
to Puerto, Veracruz. Nov. 10, 1955. Vine large; stem to 1 inch in diameter;
root large, white to pink.
- 230291.** Col. No. 15874. 'Barbasco Blanco'. Fourteen miles east of San
Andres Tuxtla along road to Puerto Mexico, Veracruz. Nov. 10, 1955. Vines
large; shoots new; roots deeply descending, white.
- 230292.** Col. No. 15881. Two and one-half miles off highway to Veracruz
along road to Tezonapa and Palmar. Nov. 12, 1955. Cultivated; common
15 to 20 years ago in forest.
- 230293 to 230298.** *DIOSCOREA FLORIBUNDA* Mart. & Gal. **Yam.**
- 230293.** Col. No. 15853. 'Barbasco Amarillo'. Four miles west of Las Tinajas
along road to Veracruz; soil sandy. Nov. 4, 1955. Plant infrequent; root
flesh yellow.
- 230294.** Col. No. 15875. Seven miles west of Veracruz along road to Jalapa.
Root flesh yellow; soil black clay.
- 230295.** Col. No. 15876. Three miles east of Plan del Rio along road to Jalapa,
Veracruz. Root flesh yellow; soil black clay. Nov. 11, 1955.
- 230296.** Col. No. 15877. Three miles east of Plan del Rio along road to Jalapa
from Veracruz. Black loamy soil. Nov. 11, 1955.
- 230297.** Col. No. 15880. San Jose de Abajo, 8 miles east of Cordoba, Veracruz.
Nov. 12, 1955.
- 230298.** Col. No. 15890. About 11 miles northwest of Tuxtla Gutierrez along
road to San Fernando. Nov. 17, 1955. Root flesh cream-colored.
- 230299 to 230307.** *DIOSCOREA SPICULIFLORA* Hemsl. **Yam.**
- 230299.** Col. No. 15886. 'Barbasco de Villa Flores'. Twenty-five miles west of
Tuxtla Gutierrez along highway to Oaxaca, Chiapas. Low tropical forest.
Nov. 18, 1955. Root flesh white.
- 230300.** Col. No. 15887. 'Barbasco de Villa Flores'. Twenty-five miles west
of Tuxtla Gutierrez along highway to Oaxaca, Chiapas. Low tropical forest.
Nov. 19, 1955.

230279 to 230318—Continued**230299 to 230307—Continued**

- 230301.** Col. No. 15891. Chiapa, Chiapas. (No field note included.)
- 230302.** Col. No. 15892. Five miles southeast of Chiapa on Culebro ranch, Chiapas. Nov. 19, 1955. Heavy clay soil.
- 230303.** Col. No. 15893. 'Barbasco de Villa Flores'. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Clay loam over limestone. Nov. 20, 1955. Elevation 2,000 feet. Root flesh white.
- 230304.** Col. No. 15894. 'Barbasco de Villa Flores'. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Clay loam over limestone. Nov. 20, 1955. Root flesh white.
- 230305.** Col. No. 15896. 'Barbasco de Villa Flores'. Thirty-five miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Elevation 3,000 feet. Nov. 20, 1955. Soil sandy.
- 230306.** No. 15897. 'Barbasco de Villa Flores'. Thirty-five miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Nov. 20, 1955. Elevation 3,000 feet. Soil sandy.
- 230307.** Col. No. 15900. Seven miles east of Chiapa along highway to Chiapas. Nov. 21, 1955. Root flesh white.

230308. DIOSCOREA sp.

Col. No. 15852. Twenty-three miles east of Cordoba along road to Veracruz. Nov. 4, 1955. Roots small, hard, shallowly splayed.

230309. DIOSCOREA sp.

Col. No. 15857. Five miles east of Temescal on Veracruz-Oaxaca border, among limestone rocks. Nov. 6, 1955. Roots small, flattened, flesh white.

230310. DIOSCOREA CONVULVACEA Cham. & Schl.**Yam.**

Col. No. 15862. Fifteen miles west of Tuxtepec, Oaxaca. Nov. 7, 1955. Roots discoid.

230311. DIOSCOREA sp.

Col. No. 15867. 'Barbasillo'. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955. Roots orange colored.

230312. DIOSCOREA sp.

Col. No. 15868. 'Barbasquillo'. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955. Roots shallow, discoid.

230313. DIOSCOREA sp.

Col. No. 15870. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955.

230314. DIOSCOREA sp.

Col. No. 15878. Five miles north of Huatusco along road to Puente Nacional. Nov. 11, 1955. Plant rare, roots small, tuberous, flesh white; soil dark brown.

230315. DIODVOREA SPICULIFLORA Hemsl.**Yam.**

Col. No. 15895. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Elevation 2,000 feet. Nov. 20, 1955. Root flesh cream to yellowish; clay loam over limestone.

230316. DIOSCOREA sp.

Col. No. 15898. Forty-three miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Loamy forest soil. Nov. 20, 1955.

230317. DIOSCOREA sp.

Col. No. 15899. Forty-three miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Nov. 20, 1955. Loamy forest soil.

230318. RAUVOLFIA sp. Apocynaceae.

Col. No. 15866. 'Silvapato'. Fourteen miles south of Santiago, Tuxtla, Veracruz. Nov. 9, 1955. Polypodial, perennial herb.

- 230319.** CAMELLIA JAPONICA L. Theaceae. **Common camellia.**
From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-cho, Aichi-ken. Received Nov. 29, 1955.
- 230320 and 230321.** ZEA MAYS L. Poaceae. **Corn.**
From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered Nov. 29, 1955.
Presented by the Agricultural Experiment Station, Morgantown, W. Va. Open-pollinated varieties.
230320. 'Bloody Butcher'. From Everett Blankenship, Wayne Co., W. Va. Said to have large grains and a small cob.
230321. White corn from S. E. Keatley, Bozoo, Monroe Co., W. Va.
- 230322 to 230325.** GLYCINE JAVANICA L. Fabaceae.
From the Union of South Africa. Seeds presented by the Division of Botany, Pretoria, Transvaal. Received Nov. 29, 1955.
230322. L.E.C. 5492. Skukuza.
230323. P 1448. Originally from Tanganyika.
230324. P 2397. Aapies River.
230325. P 3231. Blauwberg, Transvaal.
- 230326.** CITRUS sp. Rutaceae.
From Australia. Seeds presented by Ed Pollock, Mong Road, Parkes, New South Wales. Received Nov. 30, 1955.
'Sipoŋa'. Tree to 30 feet high; suckers numerous; fruit resembling the lemon.
- 230327.** LYCOPERSICON (hybrid). Solanaceae. **Tomato.**
From Ecuador. Seeds presented by the United States Operations Mission to Ecuador, Quito. Received Nov. 30, 1955.
(*L. esculentum* × *pimpinellifolium*.)
Growing wild at Estacion Tropical Experimental de Pichilingue.
- 230328 to 230331.**
From Peru. Seeds presented by the United States Operations Mission, Lima. Received Nov. 30, 1955.
- 230328 and 230329.** ARACHIS HYPOGAEA L. Fabaceae. **Peanut.**
230328. No. 1.
230329. No. 2.
- 230330 and 230331.** CHENOPODIUM QUINOA Willd. Chenopodiaceae. **Quinoa.**
230330. 'Dulce Blanca'.
230331. 'Rosada'.
- 230332.** LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**
From Turkey. Seeds presented by the Seed Improvement Station, Eskiseher. Received Nov. 21, 1955.
- 230333 to 230335.** SOLANUM MELONGENA L. Solanaceae. **Eggplant.**
From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-cho, Aichi-ken. Received Dec. 1, 1955.
230333. 'Kairyō-Onaga'.
230334. 'Kitta-Horyō'.
230335. 'Taiwan-Naga'.

230336 and 230337. PIMPINELLA ANISUM L. Apiaceae. Anise.

From Egypt. Seeds presented by the United States Operations Mission, Cairo. Received Dec. 2, 1955.

230336. B.

230337. C.

230338 to 230363.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 2, 1955.

230338. CRATAEGUS sp. Malaceae.

Col. No. 15745. Between Kalow and Babul Sar, along the Caspian shore. Sept. 13, 1955. Spreading shrub; fruits small.

230339. CHRYSANTHEMUM sp. Asteraceae.

Col. No. 15253. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,500 feet. Low, perennial bush.

230340. CORONILLA VARIA L. Fabaceae. **Crownvetch.**

Col. No. 15411. Thirty-four miles northeast of Maragheh, Azerbaijan. Aug. 3, 1955. Elevation 7,500 feet.

230341. CORNUS sp. Cornaceae.

Col. No. 15704. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Slender, monopodial shrub.

230342. CORNUS sp.

Col. No. 15712. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Polypodial, spreading shrub.

230343. FERULA sp. Apiaceae.

Col. No. 15616. Kuhe Rang, Chaharmahal. Aug. 28, 1955. Elevation 8,500 feet. Rosette perennial with panicles to 6 feet high on rocky slope.

230344. GLYCYRRHIZA sp. Fabaceae.

Col. No. 15572. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Annual or short-lived perennial, to 3 feet high. Used as green manure.

230345. LATHYRUS CICERA L. Fabaceae. **Flatpod peavine.**

Col. No. 15584. 'Gavdaneh'. Seven miles northwest of Shahr-Kord, Chaharmahal. Aug. 26, 1955. Elevation 7,000 feet. Annual herb forming thick cover.

230346. VICIA sp. Fabaceae.

Col. No. 15189. Near Ghaverokh, along road to Shahr-Kord. July 7, 1955. Elevation 7,700 feet. Branching, vine-like, annual herb.

230347 and 230348. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

230347. Col. No. 15317. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

230348. Col. No. 15594. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet.

230349. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars Fabaceae.

California burclover.

Col. No. 15156-A. Bajgah. Eight miles east of Shiraz. July 1, 1955. Elevation 5,500 feet.

230350. MEDICAGO TURBINATA (L.) All.

Burclover.

Col. No. 15558. Esfahan. Aug. 20, 1955. Elevation 5,300 feet.

230351. MELILOTUS OFFICINALIS (L.) Lam.

Yellow sweetclover.

Col. No. 15213. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet. Spring annual; flowers yellow, to 3 feet high.

230338 to 230363—Continued

230352. *SATUREJA HORTENSIS* L. Menthaceae. **Summer savory.**

Col. No. 15399. 'Marzeh'. Market, Maragheh. Aug. 1, 1955. Elevation 6,300 feet. Herb used as raw greens and in soups.

230353 and 230354. *PISUM SATIVUM* L. Fabaceae. **Garden pea.**

230353. Col. No. 15158. 'Gergeroo'. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.

230354. Col. No. 15199. 'Kessin'. Twelve miles west of Shahr-Kord, Bakhtiarian, country. July 8, 1955. Elevation 6,800 feet.

230355. *PRUNUS* sp. Amygdalaceae.

Col. No. 15246. Near Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet. Shrub with sweet, cherry-like fruits.

230356. *PRUNUS* sp.

Col. No. 15614. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Shrub, low, spreading, rock-clinging.

230357. *SALIVA* sp. Menthaceae.

Col. No. 15169. Kullykuch, between Dehbid and Abadeh, Fars. July 3, 1955. Elevation 8,000 feet. Low spreading perennial; flowers pink to red.

230358. *SALIVIA* sp.

Col. No. 15331. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Ornamental perennial herb with showy bracts.

230359. *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**

Col. No. 15590. Kuhe Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet.

230360. *TRIGONELLA* sp. Fabaceae.

Col. No. 15174. Sixteen miles northwest of Abadeh, Fars. July 3, 1955. Elevation 7,000 feet. Small, diffuse, erect herb.

230361. *VICIA MONANTHA* Retz. Fabaceae. **Bard vetch.**

Col. No. 15567. Mountain southwest of Dastana, Chaharmahal. Aug. 23, 1955. Elevation 10,500 feet.

230362. *VICIA SATIVA* L. **Common vetch.**

Col. No. 14850. Rhast, south coast of the Caspian Sea. May, 1955. Common along roads and fences.

230363. *VICIA* sp.

Col. No. 15412. Thirty-four miles northeast of Maragheh, Azerbaijan. Aug. 3, 1955. Elevation 7,500 feet. Many-stemmed climbing herb; in moist bottom-land.

230364. *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 6, 1955.

Col. No. 15889. San Fernando, 13 miles northwest of Tuxtla, Gutierrez, Chiapas. Nov. 17, 1955. Elevation 2,000 feet. Cultivated by the Soqui Indians; planted twice a year; seeds black.

230365 to 230367. *TRITICUM DURUM* Desf. Poaceae. **Durum wheat.**

From Chile. Seeds presented by the Agricultural Attache, American Embassy, Santiago. Received Dec. 2, 1955.

230365. 'Ferigo Candéal No. 11'.

230366. 'Ferigo Candéal No. 18'.

230367. 'Ferigo Candéal No. 24'.

230368. TUTCHERIA SPECTABILIS (Champ.) Dunn. Theaceae.

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria. Received Dec. 2, 1955.

230369 to 230390.

From Sicily. Seeds collected by F. Russo, Acireale. Received Dec. 5, 1955.

230369. CITRUS AURANTIUM L. Rutaceae. Sour orange.

'Sicilian'. Sour orange used for root stock in Italy.

230370 to 230375. CITRUS LIMON (L.) Burm. f. Lemon.

230370. 'Arancino (Cocuzzaro)'. Fruits nearly round, high in acid; some resistance to Mal secco.

230371. 'Corpaci'. Tree vigorous, thorny; fruits commercial type, high in acid, seedy.

230372. 'Feminello Comune'. Fruits finest commercial type, high in acid; seedy; susceptible to Mal secco.

230373. 'Interdonato'. Resistant to Mal secco. Fruits large, long nipples, peel medium thick; early.

230374. 'Monachello'. Slightly acid variety; resistant to Mal secco.

230375. 'Santa Teresa'. Commercial type; high in acid; resistant to Mal secco.

230376 and 230377. CITRUS RETICULATA Blanco Mandarin orange.

230376. 'Mandarino Avana' or 'Mandarino Palermo'.

230377. 'Mandarino Avana Tardivo'. Late strain of 'Mandarino Avana'.

230378 to 230389. CITRUS SINENSIS (L.) Osbeck Sweet orange.

230378. 'Belladonna'. Fruits oval; seeds few.

230379. 'Biondo Riccio'. Tree vigorous; fruits very large, rough; early to midseason.

230380. 'Moro'. Fruits oval, dark blood; seedless; early.

230381. 'Ovale'. Fruits oval; seeds few; late.

230382. 'Ovaletto Sanguigno'. Fruit barrel-shaped, early, blood type; seeds few.

230383. 'Sanguinello'. Fruit large, flattened; seeds few; high quality blood type.

230384. 'Sanguinello Moscato'. Fruits round, blood type; seedless; midseason.

230385. 'Sanguinello Moscato Cuscuna'. Fruits oval, blood type, seedless; early.

230386. 'Sanguinello a Pignu'. Fruits oval, blood type, nearly seedless; midseason.

230387. 'Tarocco'. Blood type; fruit slightly turbinate, seedless; early.

230388. 'Vaccaro'. Blood type; fruits round; seeds few; midseason.

230389. 'Vaniglia Sanguigno'. Fruits small, low in acid, insipid.

230390. CITRUS VOLKAMERIANA Pasq.

Used as rootstock for lemons. Resistant to Mal secco.

230391 to 230403.

From Ceylon. Seeds presented by the School of Agriculture, Peradeniya. Received Dec. 5, 1955.

230391. COFFEA ARABICA L. Rubiaceae. Arabian coffee.
'Kents Arabica'.

230392. COFFEA ABEOKUTAE Cramer Coffee.

230393. COFFEA ARUWIMENSIS Wildem. Coffee.

230391 to 230403—Continued

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| 230394. <i>COFFEA EXCELSA</i> Cheval. | Congo coffee. |
| 230395. <i>COFFEA LIBERICA</i> Bull. | Liberian coffee. |
| 230396. <i>COFFEA</i> sp.
'Pasiypagor'. | |
| 230397. <i>COFFEA CANEPHORA</i> Pierre ex Froehn. | Coffee. |
| 230398. <i>COFFEA</i> (hybrid). | Coffee. |
| 230399. <i>COFFEA LAURENTII</i> Wildem. | Coffee. |
| 230400. <i>COFFEA QUILLOU</i> Cramer | Coffee. |
| 230401. <i>COFFEA CANEPHORA</i> Pierre ex Froehn. | Coffee. |
| 230402. <i>COFFEA UGANDAE</i> Cramer | Coffee. |
| 230403. <i>COFFEA</i> sp. | |

230404 to 230427.

From Australia. Seeds presented by the Botanical Garden, Adelaide. Received Dec. 6, 1955.

- 230404.** *CANTUA BUXIFOLIA* Lam. Polemoniaceae.
- 230405.** *EUCALYPTUS ERYTHRONEMA* Turcz. Myrtaceae.
- 230406.** *EUCALYPTUS MACROCARPA* Hook.
- 230407.** *EUCALYPTUS MINIATA* A. Cunn.
- 230408.** *EUCALYPTUS NUTANS* F. Muell.
- 230409.** *EUCALYPTUS PREISSIANA* Schauer
- 230410.** *EUCALYPTUS PYRIFORMIS* Turcz.
- 230411.** *EUCALYPTUS SEPULCRALIS* F. Muell.
- 230412.** *EUCALYPTUS* sp.
- 230413.** *MELALEUCA ACUMINATA* F. Muell. Myrtaceae.
- 230414.** *MELALEUCA ADNATA* Turcz.
- 230415.** *MELALEUCA CRASSIFOLIA* Benth.
- 230416.** *MELALEUCA DEANEI* F. Muell.
- 230417.** *MELALEUCA ELLIPTICA* Labill.
- 230418.** *MELALEUCA FULGENS* R. Br.
- 230419.** *MELALEUCA LATERITIA* Otto & Dietr.
- 230420.** *MELALEUCA MEGACEPHALA* F. Muell.
- 230421.** *MELALEUCA MICROMERA* Schauer
- 230422.** *MELALEUCA PUBESCENS* Schauer
- 230423.** *MELALEUCA PAUCIFLORA* Turcz.
- 230424.** *MELALEUCA RADULA* Lindl.
- 239425.** *MELALEUCA STEEDMANII* C. A. Gardn.
- 230426.** *MELALEUCA UNCINATA* R. Br.
- 230427.** *METROSIDEROS EXCELSA* Soland. Myrtaceae.

230428 to 230434. *PAEONIA SUFFRUTICOSA* Andrews. Ranunculaceae.

Tree peony.

From Japan. Plants presented by Takii & Co., Limited, Kyoto. Received Dec. 6, 1955.

230428 to 230434—Continued

- | | |
|-----------------------------------|----------------------------------|
| 230428. 'Asahi No Sora'. | 230432. 'Nihon Kurenai'. |
| 230429. 'Kasumi No Mo Ri'. | 230433. 'Showa Kurenai'. |
| 230430. 'Kimigayo'. | 230434. 'Tamanatsu Zuru'. |
| 230431. 'Miyuki Nishiki'. | |

230435 to 230451.

From Brazil. Seeds presented by the Instituto Agronómico do Estado de São Paulo, Campinas, São Paulo. Received Dec. 6, 1955.

- | | |
|--|----------------------|
| 230435. COFFEA (hybrid). Rubiaceae. | Coffee. |
| <i>C. arabica</i> × <i>dewevrei</i> . C 387. | |
| 230436. COFFEA BUKOBENSIS Zimmerm. | Coffee. |
| 230437 and 230438. COFFEA QUILLOU Cramer | Coffee. |
| 230437. Seeds round. | |
| 230438. Seeds pointed. | |
| 230439 to 230441. COFFEA CONGENSIS var. CHALOTII Pierre | Coffee. |
| 230439. C 1026-2. | |
| 230440. C 1028-1. | |
| 230441. C 1028-6. | |
| 230442. COFFEA UGANDAE Cramer | Coffee. |
| 230443 and 230444. COFFEA (hybrids). | Coffee. |
| <i>C. congensis</i> × <i>ugandae</i> . | |
| 230443. C 1027-3. | |
| 230444. C 1027-4. | |
| 230445. COFFEA sp. | |
| 'Conuga-Bgn 2-03'. | |
| 230446. COFFEA sp. | |
| 'Conuga 2-14'. | |
| 230447 and 230448. COFFEA DEWEVREI Wildem. & Dur. | Coffee. |
| 230447. Col. 1. | |
| 230448. Col. 7. | |
| 230449. COFFEA ABEOKUTAE Cramer | Coffee. |
| Col. 6. | |
| 230450. COFFEA DYBOWSKII Van Hall. | Coffee. |
| Col. 15. | |
| 230451. COFFEA EXCELSA Chaval. | Congo coffee. |
| Col. 11. | |

230452. ENCEPHALARTOS VILLOSUS Lem. Cycadaceae.

From the Union of South Africa. Seeds presented by the Botanic Garden, Durban, Natal. Received Dec. 7, 1955.

230453. PSYCHOTRIA UNDATA Jacq. Rubiaceae.

From Florida. Seeds collected by E. P. Imle, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 7, 1955.

State Park, Sebring. Nov. 27, 1955.

230454. *COFFEA ARABICA* L. Rubiaceae. **Arabian coffee.**
From Costa Rica. Seeds obtained from the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Dec. 7, 1955.
'Caturra'.

230455. *ILEX SUGEROKII* Maxim. Aquifoliaceae. **Sugeroki holly.**
From Japan. Seeds presented by the Faculty of Science, Tohoku University, Sendai. Received Dec. 7, 1955.

230456. *PHYSOSPERMUM* sp. Apiaceae.
From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 8, 1955.

Col. No. 15153. Mountain southwest of Bajgah Valley, east of Shiraz. June 30, 1955. Elevation 7,500 feet. Herb used locally as a vegetable.

230457 to 230592.

From Wisconsin. Plant material growing at the Potato Introduction Project Branch Experiment Station, Sturgeon Bay. Numbered Dec. 8, 1955.

230457 to 230468.

Presented by the Agricultural Research Council, Potato Genetics Section, Huntingdon Road, Cambridge, England. (Commonwealth Potato Collection).

230457. *SOLANUM ANDIGENUM* Juz. & Buk. Solanaceae.

CPC 1464. Y-virus resistant.

230458. *SOLANUM ANDREANUM* Baker

CPC 2373. Originally from Hawkes collection.

230459. *SOLANUM BRACHYCARPUM* Correll

CPC 2292.

230460. *SOLANUM COLOMBIANUM* Dunal

CPC 2177. Originally from Hawkes collection.

239461. *SOLANUM MORELLIFORME* Bitter & Muench.

CPC 2262.

230462. *SOLANUM MOSCOPANUM* Hawkes

CPC 2176. Originally from Hawkes collection.

230463. *SOLANUM POLYADENIUM* Greenm.

CPC 2077.5.

230464. *SOLANUM SANCTAE-ROSAE* Hawkes

CPC 2483. Originally from Hawkes collection.

230465. *SOLANUM SUCRENSE* Hawkes

CPC 2058.

230466. *SOLANUM TARIJENSE* Hawkes

CPC 1727.3 x 144.

230467. *SOLANUM TUQUERRENSE* Hawkes

CPC 2180. Originally from Hawkes collection.

230468. *SOLANUM VERNEI* Bitter & Wittm.

CPC 2413.

230469 to 230475.

Presented by the Technical Cooperation Program, Inter-American Institute of Agricultural Sciences, San Jose, Costa Rica.

230457 to 230592—Continued**230469 to 230475—Continued****230469.** SOLANUM ACAULE Bitter

IAIAS 3324. Collected by S. Alandia, Bolivia.

230470 to 230475. SOLANUM ANDIGENUM Juz. & Buk.

Collected by E. H. Casseres.

230470. IAIAS 3319. 'Uvilla'. Ecuador.**230471.** IAIAS 3320. 'Chola'. Ecuador.**230472.** IAIAS 3321. 'Argentina'. Colombia.**230473.** IAIAS 3322. 'Tocana rosada'. Colombia.**230474.** IAIAS 3323. 'Casablanca'. Peru.**230475.** IAIAS 3346. 'Chicua'. Costa Rica.**230476.** SOLANUM COMMERSONII Dunal

Presented by the Estacion Experimental de Horticultura, Domingos Tetroli, Rio Grande, Rio Grande de Sul, Brazil.

Flowers lavender.

230477. SOLANUM ANTIPOVICHII Buk.

Presented by the Veredelingsbedrijf Centraelbureau, Hoofddorp, Holland. CB 82-502. Immune to Y-virus.

230478. SOLANUM BULBOCASTANUM Dunal

Presented by the Department of Agriculture Science Service, Laboratory of Plant Pathology, Fredericton, N. B., Canada.

CPC 2881.

230479 to 230486.

Presented by the Department of Agriculture Science Service, Botany and Plant Pathology Laboratory, Ottawa, Ontario, Canada.

230479. SOLANUM OXYCARPUM Schiede

CSC 1. Originally from Pedragal de la Joya, Veracruz, Mexico. Elevation 6,500 feet.

230480. SOLANUM POLYADENIUM Greenm.

CSC 2. Originally from Monte Punguate near Morelia, Michoacan, Mexico. Fruits orbiculate.

230481 to 230485. SOLANUM BULBOCASTANUM Dunal**230481.** CSC 19.**230484.** CSC 23.**230482.** CSC 20.**230485.** CSC 25.**230483.** CSC 21.**230486.** SOLANUM CARDIOPHYLLUM Lindl.

CSC 18.

230487 to 230492.

Presented by the Natural Sciences Division, Rockefeller Foundation, Mexico City, Mexico. Received July 23, 1953.

230487 and 230488. SOLANUM DEMISSUM Lindl.**230487.** S-38.**230488.** S-74.**230489.** SOLANUM PINNATISECTUM Dun.

S-44.

230457 to 230592—Continued**230487 to 230492—Continued****230490.** *SOLANUM STOLONIFERUM* Schlecht.

S-37.

230491 and 230492. *SOLANUM CARDIOPHYLLUM* Lindl.**230491.** S-23.**230492.** S-36.**230493 to 230528.**

Presented by the Ministry of Agriculture, Lima, Peru.

230493. *SOLANUM ACAULE* var. *SUBEXINTERRUPTUM* Bitter

No. 2045. Collected in Cabrasillo, near Puno, Peru. March, 1953.

230494. *SOLANUM ACAULE* BitterNo. 2065. Received as variety *albicans*, an apparently unpublished name.**230495.** *SOLANUM ACROSCOPICUM* Ochoa

No. 2043. Collected in Chivateria, Province Tarata, Department Tacna. March 21, 1953.

230496 to 230501. *SOLANUM ANDIGENUM* Juz. & Buk.**230496.** No. 808. 'Puca Shiri'.**230499.** No. 1226. 'Imilla Nigra'.**230497.** No. 816. 'Pina'.**230500.** No. 1245. 'Yuracc Imilla'.**230498.** No. 868. 'Cocori Marca'.**230501.** 'Renacimiento'. A high yield variety.**230502.** *SOLANUM CALCENSE* Hawkes

No. 2064.

230503. *SOLANUM HERRERAE* Juz.

No. 2065.

230504. *SOLANUM LIGNICAULE* Vargas

No. 2060.

230505. *SOLANUM LYCOPERSICOIDES* Dur.

No. 2035.

230506. *SOLANUM NEOHAWKESII* Ochoa

No. 37. Collected in Casaracra near La Oroya, Province Yauli, Department Junin. Feb. 23, 1947.

230507. *SOLANUM NEOWEBERBAUERI* Wittm.

No. 2048.

230508. *SOLANUM OCHRANTHUM* Humb. & Bonpl.

No. 973.

230509. *SOLANUM PIURAE* Bitt.

No. 1795.

230510. *SOLANUM SOGARANDINUM* Ochoa

No. 1440.

230511. *SOLANUM SOUKUPII* Hawkes

No. 2032.

230512 and 230513. *SOLANUM STENOTOMUM* Juz. & Buk.**230512.** No. 1922. 'Huadalina Larga'. One of the most interesting varieties from northern Peru.**230513.** No. 1933. 'Soplin'.

230457 to 230592—Continued**230493 to 230528—Continued****230514.** SOLANUM sp.

No. 1505.

230515. SOLANUM sp.

No. 1524.

230516. SOLANUM sp.

No. 2023.

230517. SOLANUM sp.No. 2104. Series *Tuberosa*. Wild species from Ecuador.**230518.** SOLANUM sp.No. 2140. Series *Juglandifolia*. Wild species from Ecuador.**230519.** SOLANUM sp.No. 2141. Series *Juglandifolia*. Wild species from Ecuador.**230520.** SOLANUM sp.

No. 1423. Wild.

230521. SOLANUM sp.

No. 1431.

230522. SOLANUM sp.

No. 1490.

230523. SOLANUM sp.

No. 2129.

230524 to 230528. SOLANUM (hybrids).**230524.** (*S. acaule* var. *puna* × (*S. curtilobum* × *andigenum*)) × *S. acaule* × 11.50-3-47. Frost resistant.**230525.** (*S. andigenum* × *stenotomum*) × (104 × 246).**230526.** (*S. coeruleiflorum* × *neohawkesii*) × (123 × 187-2-49).**230527.** (*S. goniocalyx* × (*S. stenotomum* × *neohawkesii*)) × (306 × (246 × 187-1-48)). Frost resistant; virus susceptible.**230528.** *S. stenotomum* var. *mauna* × *brevicaule*. Frost resistant.**230529 to 230553.**

Seed presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi, India.

230529 and 230530. SOLANUM ACAULE Bitter**230529.** MSS 1. 'Recoba'.**230530.** MSS 2. 'Recoba'. (2n=96).**230531 to 230535.** SOLANUM (hybrids).**230531.** MSS 3. *S. acaule* 'Recoba' (2n=96) × 'Katahdin'.**230532.** MSS 4. (*S. acaule* 'Recoba' (2n=96) × 'Katahdin') × *S. tuberosum* seedling Cl.B. 72.**230533.** MSS 5. ((*S. acaule* 'Recoba' (2n=96) × 'Katahdin') *S. tuberosum* seedling Cl.B. 72) × *S. tuberosum* seedling Cl.B. 72.**230534.** MSS 6. *S. acaule* 'Recoba' × *S. simplicifolium* (amphidiploid 2n=72).**230535.** MSS 7. ((*S. calcense* × *S. ballsii*) × *S. rybinii*) (amphidiploid 2n=48) × *S. tuberosum* seedling Cl.B 72.

230457 to 230592—Continued**230529 to 230553—Continued**

- 230536.** SOLANUM CHACOENSE Bitter
MSS 8. ($2n=48$).
- 230537 to 230540.** SOLANUM (hybrids).
- 230537.** MSS 9. *S. chacoense* ($2n=48$) × 'Katahdin'.
- 230538.** MSS 18. (*(S. chacoense* × *S. rybinii*) F_1 × *S. rybinii*) × *S. rybinii*.
- 230539.** MSS 10. (*S. chacoense* × *S. rybinii*) (amphidiploid $2n=48$) × *S. tuberosum* seedling Cl.B. 72.
- 230540.** MSS 19. (*(S. chacoense* × *S. rybinii*) (amphidiploid $2n=48$) × *S. tuberosum* seedling Cl.B. 72) × *S. tuberosum* seedling Cl.B. 72.
- 230541.** SOLANUM LANCIFORME Rydb.
MSS 20.
- 230542 to 230545.** SOLANUM (hybrids).
- 230542.** MSS 21. *S. macolae* × *S. simplicifolium*.
- 230543.** MSS 12. *S. parodii* × *S. saltense* (amphidiploid $2n \times 48$).
- 230544.** MSS 13. (*S. parodii* × *S. saltense*) (amphidiploid $2n=48$) × *S. tuberosum* seedling Cl.B. 72.
- 230545.** MSS 14. *S. phureja* ($2n=48$) × 'Katahdin'.
- 230546.** SOLANUM VERRUCOSUM Schlecht.
MSS 22.
- 230547 to 230553.** SOLANUM (hybrids).
- 230547.** MSS 15. *S. verrucosum* ($2n=48$) × *S. tuberosum* seedling Cl.B. 72.
- 230548.** MSS 17. (*S. verrucosum* × *S. macolae*) (amphidiploid $2n=48$) × *S. tuberosum* seedling Cl. B. 72.
- 230549.** MSS 23. *S. verrucosum* × *S. rybinii*.
- 230550.** MSS 16. (*(S. verrucosum* × *S. rybinii*) (amphidiploid $2n=48$) × *S. tuberosum* seedling Cl.B. 72.
- 230551.** MSS 24. (*S. verrucosum* × *S. saltense*) F_1 × *S. saltense*.
- 230552.** MSS 25. (*(S. verrucosum* × *S. saltense*) F_1 × *S. saltense*) × *S. parodii*.
- 230553.** MSS 26. *S. vernei* × *S. simplicifolium*.
- 230554 to 230558.** Seeds presented by the Max Planck Institut für Züchtungsforschung, Cologne, Germany.
- 230554 to 230556.** SOLANUM ACAULE Bitter
- 230554.** EBS. (var. *bukasovii* × var. *rossii*) F^n . X-immune.
- 230555.** EBS. X-immune.
- 230556.** EBS. X-immune.
- 230557.** SOLANUM AJUSCOENSE Bukosov
EBS 281. CPC 1331.
- 230558.** SOLANUM DEMISSUM Lindl.
EBS 18. Lindl. 029.
- 230559.** SOLANUM DEMISSUM var. TLAXPEHUALCOENSE Buk. ex Rybin.
EBS 44.
- 230560.** SOLANUM DEMISSUM Lindl.
EBS 48b. 'Reddick's No. 530', El Desierto.

230457 to 230592—Continued**230554 to 230568—Continued**

230561. *SOLANUM POLYADENIUM* Greenm.

EBS 51. Vold.

230562. *SOLANUM VERNEI* Bitter & Wittm.

EBS 181. Very high resistance to golden nematode.

230563 to 230568. *SOLANUM* (hybrids).

230563. *S. tuberosum* × *S. andigenum*.

MPI 44.685/1. Phytophthora incubation resistance.

230564. *S. tuberosum* × *S. andigenum*.

MPI 53.3363/20. Phytophthora incubation resistance.

230565. *S. tuberosum* × *S. andigenum*.

MPI 53.3363/28. Phytophthora incubation resistance.

230566. *S. 'Carmen'* × *S. andigenum*.

MPI 53.180A × 130/10. Phytophthora incubation resistance.

230567. *S. ('Urtica' × 'Mittelfrue')* × *S. andigenum*.

MPI 53.185 × 129/48. Phytophthora incubation resistance.

230568. *S. ('Urtica' × 'Mittelfrue')* × *S. andigenum*.

MPI 53.185 × 130/54. Phytophthora incubation resistance.

230569 to 230576 *SOLANUM* (hybrids).

Seeds presented by Josef Matz, Kartoffelzuchtstation, Anzberg, Post Haibach Bei Scharding, Austria. Received Apr. 14, 1954.

230569. (*S. andigenum* × *S. tuberosum*) × 'Juligold'.

Aust. J 1.

230570. ((*S. antipoviczii* × 'Aquila') × *S. tuberosum* 'Mittelfruher') × self.

Aust. G 45.

230571. ((*S. antipoviczii* × 'Aquila') × self) × 'Juligold'.

Aust. J 8.

230572. ((*S. antipoviczii* × 'Aquila') × self) × seedling 'F 16/12'.

Aust. J 9.

230573. ((*S. antipoviczii* × 'Auila') × self) × seedling 'G 14/4'.

Aust J 25.

230574. (*S. demissum* × *S. tuberosum* 2n) × seedling 'F 16/12'.

Aust. J 4.

230575. *S. demissum* × *S. tuberosum* 2n × 'Rotkehlchen'.

Aust. J 6.

230576. (*S. demissum* × *S. tuberosum* 2n) × self.

Aust. W 2.

230577. *SOLANUM* (hybrid).

Seeds presented by the Station de Recherches de l'Etat, Libromont, Belgium. Received May 10, 1954.

Belg. adg 43x/1.6. (*S. andigenum* × 'Aquila'). Leaf roll resistant.

230578 and 230579. *SOLANUM DEMISSUM* Lindl.

Tubers presented by Dr. R. H. Larson, from seed sent by the Scottish Plant Breeding Station, Pentlandsfield, Roslin, Midlothian, Scotland. Received Apr., 1953.

230457 to 230592—Continued**230578 to 230579—Continued**

230578. SSRPB. A-virus sensitive.

230579. SSRPB. Y-virus sensitive.

230580 to 230585.

Seeds presented by the Department of Entomology, Ohio Agricultural Experiment Station, Wooster, Ohio, Mar. 11, 1950.

230580. SOLANUM CALDASII Humb. & Bonpl.

230581. SOLANUM CHACOENSE Bitter

230582 and 230583. SOLANUM COMMERSONII Dunal

230584. SOLANUM MACOLAE Bukasov

230585. SOLANUM VAVILOVII Juz. & Buk.

230586 to 230588.

Seeds presented by the Department of Horticulture, University of Minnesota, St. Paul, Minnesota, 1951.

230586. SOLANUM PHUREJA Juz. & Buk.

Originally from Umberto Canderillas, Bolivia.

230587. SOLANUM DESISSUM f. ATROCYANEUM Lechnov. & Buk.

'Reddick's No. 533', El Desierto.

230588. SOLANUM VERRUCOSUM Schlecht.

'Reddick's No. 569'. Hidalgo, Mexico.

230589 to 230592. SOLANUM DEMISSUM Lindl.

Seeds presented by the Department of Plant Pathology, Cornell University, Ithaca, New York. Aug. 8, 1951.

230589. 'Reddick's No. 178', used in Snowdrift, 1947.

230590. 'Reddick's No. 692', El Desierto, 1948.

230591. 'Reddick's No. 696', El Desierto.

230592. 'Reddick's No. 886', f. Bukasov, 1946.

230593. ARUNDINELLA BERTERONIANA (Schult.) Hitchc. & Chase
Poaceae.

From Peru. Seeds presented by the Ministry of Agriculture, Lima. Collected in the Huallaga Valley, San Martin. Received Dec. 9, 1955.

230594 to 230597. GOSSYPIUM (hybrids). Malvaceae. **Cotton.**

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo, Campinas, Sao Paulo. Received Dec. 9, 1955.

230594. Delfos-40/137-53-173.

230596. I.A.C.-48/530-3607.

230595. I.A.C.-43/981.

230597. I.A.C.-51/577.

230598 to 230603.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Branch, Beltsville, Md. Received Dec. 9, 1955.

230598. ALLIUM sp. Liliaceae.

Col. No. 15343. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet. Spring herb.

230599. ARUM sp. Araceae.

Col. No. 15154. 'Ribas'. Mountain southwest of Bajgah Valley, east of Shiraz. June 30, 1955.

230598 to 230603—Continued

230600. BERBERIS sp. Berberidaceae.

Col. No. 15685. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Green, thorny, compact shrub; fruits purple.

230601. ECHINOCHLOA sp. Poaceae.

Col. No. 15573. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Hydrophytic grass growing in a perennial pool; well liked by animals.

230602. HYPERICUM sp. Hypericaceae.

Col. No. 15604. East base of Kuhe Zard Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Perennial herb; used in medicine.

230603. IXIOLIRION sp. Amaryllidaceae.

Col. No. 15192. Near Ghaverokh, along road to Shahr Kord, July 7, 1955. Elevation 7,700 feet. Annual spring herb in grain field.

230604 and 230605. ZEA MAYS L. Poaceae. Corn.

From Brazil. Seeds presented by Alex Smith, Fazenda Ipenima, near Campinas, Sao Paulo. Received Dec. 12, 1955.

230604. Hd. EE1 3330A.

230605. Hd. EE1 3331.

230606 to 230608.

From Syria. Seeds presented by S. M. Shadeed, Jacksonville, North Carolina. Received Dec. 12, 1955. Grown in Damascus.

230606. LATHYRUS CICERA L. Fabaceae.

Flatpod peavine.

230607. MEDICAGO SATIVA L. Fabaceae.

Alfalfa

230608. VICIA SATIVA L. Fabaceae.

Common vetch.

'Bee-hia'.

230609 to 230615.

From Japan. Presented by the Ministry of Agriculture and Forestry, Tochigi, Honshu. Received Dec. 12, 1955.

230609 to 230614. RHODODENDRON (hybrids).

(Plants.)

230609. 'Ban-ka'.

230612. 'Homare-no-hana'.

230610. 'Getsu-toku'.

230613. 'Tatsumi-no-hikari'.

230611. 'Hei-wa'.

230614. 'Wa-ko'.

230615. CLEMATIS sp. Ranunculaceae.

230616. CALLITROPSIS ARAUCARIOIDES R. H. Compt. Pinaceae.

From New Caledonia. Plants presented by the South Pacific Commission, Noumea. Received Dec. 12, 1955.

230617 and 230618.

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 12, 1955.

230617. DIOSCOREA COMPOSITA Hemsl. Dioscoreaceae.

Yam.

Col. No. 15856. Seven miles south of Tierra Blanca at Rancho Loma del Carmen, Veracruz.

230618. DIOSCOREA FLORIBUNDA Mart. & Gal.

Yam.

Col. No. 15875. Seven miles west of Veracruz along road to Jalapa, Veracruz.

230619. *CONOCARPUS ERECTA* L. Combretaceae.

From Florida. Seeds collected by William Cowgill, Coconut Grove. Received Dec. 13, 1955.

230620 and 230621.

From Italy. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 13, 1955.

230620. *GENISTA* sp. Fabaceae.

Col. No. 15826. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Small, slender, leafless, thorny shrub. Said to be ornamental; native to the Mediterranean coast.

230621. *ORYZOPSIS MILLIACEA* (L.) Benth. & Hook. Poaceae. **Smilgrass.**

Col. No. 15825. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Caney perennial to 3 feet high; has little leaf growth.

230622. *CITRUS SINENSIS* (L.) Osbeck Rutaceae. **Sweet orange.**

From Italy. Seeds obtained by J. R. Furr from a market at Gioia Tauro. Received Dec. 13, 1955.

Variety unknown; fruits flattened, with navel; early, quality good.

230623. *CITRUS SINENSIS* (L.) Osbeck Rutaceae. **Sweet orange.**

From Sicily. Seeds obtained by J. R. Furr in Paterno. Received Dec. 13, 1955. 'Sanguinello'. Fruits round, medium size, seedless, quality good.

230624. *PRUNUS* (hybrid). Amygdalaceae.

From France. Rooted cuttings presented by the Centre Recherches Agronomique, Port de la Maye. Received Dec. 13, 1955.

(F1(R1 x S557)1).

230625 to 230628.

From Morocco. Seeds presented by H. Chapot, Institut des Fruits et Agrumes Coloniaux, Rabat. Received Dec. 13, 1955.

230625 to 230627. *CITRUS* (hybrids). Rutaceae.

230625. 'MHAC NAO'. Fruit size between lemon and lime; probably lemon hybrid.

230626. 'MHAC VO'. Probably the Moroccan 'Citron de Borneo' or the 'Djeroek Citroen' from Java. Fruits large.

230627. 'MHAC VO'. Fruits small.

230628. *CITRUS RETICULATA* Blanco**Mandarin orange.**

Unnamed variety. Sometimes called 'Mandarine a Teteons' (Mandarin with long-necked fruit).

230629. *RAUVOLFIA SEMPERFLORENS* (Muell.-Arg.) Schlech.

Apocynaceae.

Devilpepper.

From New Caledonia. Roots presented by J. Barrow, Contouta Valley, Noumea. Received Dec. 13, 1955.

No. 3561.

230630. *GALANTHUS NIVALIS* L. Amaryllidaceae.

From New York. Bulbs presented by Van Bourgondien Sons, Inc., Babylon, Long Island. Received Dec. 13, 1955.

230631 to 230633.

From California. Bulbs and seeds presented by the Oakhurst Gardens, Arcadia. Received Dec. 13, 1955.

230631 to 230633—Continued

230631 and 230632. *AMARYLLIS BELLADONNA* L. Amaryllidaceae.

230631. Bulbs.

230632. Seeds.

230633. *CRINUM MOOREI* Hook. f. Amaryllidaceae.

Seeds.

230634. *CHAMAEDOREA ERUMPENS* H. E. Moore Phoenicaceae. **Palm.**

From Florida. Seeds presented by O. C. Corbin, Coconut Grove. Received Dec. 14, 1955.

230635 to 230637.

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 14, 1955.

230635. *MUHLENBERGIA* sp. Poaceae.

Col. No. 15843. Lomas de Chapultepec, Mexico City. Oct. 28, 1955. Elevation 8,000 feet. Tufted perennial; leaves thick, narrow.

230636. *STIPA ICHU* (Ruiz. & Pav.) Kunth Poaceae. **Needlegrass.**

Col. No. 15842. Lomas de Chapultepec, Mexico City. Nov. 28, 1955. Elevation 8,000 feet. Rank growing bunch perennial; leaves long.

230637. *ELEUSINE TRISTACHYA* Lam. Poaceae.

Col. No. 15902. Lomas de Chapultepec, Mexico City. November 1955. Plant low, decumbent, densely spreading; growing on open slope.

230638 to 230650. *ZEA MAYS* L. Poaceae. **Corn.**

From Angola. Seeds presented by Jorge B. Vieira da Silva, Nova Lisboa. Received Dec. 14, 1955.

230638. 54-376.

230645. 54-2736.

230639. 54-380.

230646. 54-2553.

230640. 54-576.

230647. 54-2559.

230641. 54-2550.

230648. 54-2578.

230642. 54-2717.

230649. 54-2588.

230643. 54-2724.

230650. 54-2589.

230644. 54-2729.

230651 to 230653. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Paraguay. Seeds collected by William Loegering, Caacupe. Received Dec. 14, 1955.

230651. 'Jhiasevava'.

230652. 'Jhiveva'.

230653. 'Jhoseveva'.

230654 to 230657. *RHODODENDRON MAXIMUM* L. Ericaceae.

Rosebay rhododendron.

From native northwestern plants, University of New Hampshire. Collected in 1955 by the Agricultural Experiment Station, Durham, New Hampshire.

230654 and 230655.

From Standish, Cumberland, Maine, about 1 mile south of Sebago Lake.

230654. B1-S Vigorous colony; locally known as the white group. (From the same selection as P.I. No. 229375.)

230655. B2-S. Vigorous colony; locally known as the pink group.

230654 to 230657—Continued**230656.** No. 1.

From Conway, Carroll, New Hampshire. Mature colony; stems up to 3 inches in diameter. Elevation 1,000 feet.

230657. No. 2.

From Sanford, York, Maine. Plant vigorous; very dense growth.

230658 to 230663. SOLANUM (hybrids). Solanaceae.

From Wisconsin. Tubers presented by the Department of Plant Pathology, University of Wisconsin, Madison.

Numbered Dec. 14, 1955.

230658. *S. demissum* × *S. tuberosum*.

CB. Duplex Y-virus resistance (Mastenbroek).

230659 to 230663. (*S. andigenum* var. *woelung* × *S. tuberosum*) × *S. tuberosum*.

Resistant to bacterial wilt in Indonesia (Toxopeus).

230659. WTT 52-4-9.**230662.** WTT 52-6-9.**230660.** WTT 52-6-2.**230663.** WTT 52-6-13.**230661.** WTT 52-6-3.**230664 to 230670.**

From Great Britain. Seeds presented by P. E. Taylor, Keyworth, Nottinghamshire, England. Received Dec. 15, 1955.

230664. LATHYRUS CICERA L. Fabaceae.

Flatpod peavine.

230665. VICIA BENGHALENSIS L. Fabaceae.

Purple vetch.

230666. VICIA BITHYNICA L.

Vetch.

230667. VICIA PANNONICA Crantz.

Hungarian vetch.

'Alba'.

230668. VICIA SATIVA L.

Common vetch.

230669. VICIA TETRASPERMA (L.) Moench

Fourseed vetch.

230670. VICIA TETRASPERMA VAR. GRACILIS (Lois.) Aschers. & Graebn.

Vetch.

230671. BRACHYSTEGIA SPICAEFORMIS Benth. Caesalpinaceae.

From Rhodesia. Seeds presented by the Forestry Commission, Causeway, Salisbury. Received Dec. 15, 1955.

230672 and 230673.

From Australia. Seeds presented by G. H. Hewitt, Bellingen, New South Wales. Received Dec. 15, 1955.

230672. CALLISTEMON SALIGNUS (J. E. Sm.) Sweet Myrtaceae.

Bottlebrush.

230673. EUCALYPTUS CLOEZIANA F. Muell. Myrtaceae.**230674 to 230684.**

From Rhodesia. Seeds presented by J. Hinds, Pasture Agriculture Department, Lusaka. Received Dec. 16, 1955.

230674. CHLORIS GAYANA KUNTH Poaceae.

Rhodesgrass.

230675. INDIGOFERA ECHINATA Willd. Fabaceae.

Indigo.

230676 to 230684. VIGNA SINENSIS (Torner) Savi Fabaceae. Common cowpea**230676.** 'Lunkumba'.**230681.** 'Mankoya Selection 4'.**230677.** 'Lyomba'.**230682.** 'Mankoya Selection 5'.**230678.** 'Mankoya Selection 1'.**230683.** 'Munawani'.**230679.** 'Mankoya Selection 2'.**230684.** 'Munyonga'.**230680.** 'Mankoya Selection 3'.

230685. MALUS (hybrid). Malaceae.

From Canada. Cuttings presented by the Experiment Station, Mordan, Manitoba.
Received Dec. 16, 1955.

'Sundog'.

230686. ORYZA SATIVA L. Poaceae.**Rice.**

From Italy. Seeds presented by the Stazione Sperimentale di Risculturaea, Vercelli.
Received Dec. 16, 1955.

'Agostano'.

230687 to 230718. FRAGARIA (hybrids). Rosaceae.**Strawberry.**

From France. Plants obtained from various sources. Received Apr. 6 and 7, 1955.
230687 to 230691.

From the Station Centrale de Genetique et D'Amelioration des Plantes, Versailles.

230687. 'Abondance'.

230690. 'Regal'.

230688. 'Louis Vilmorin'.

230691. 'Sans Rivale'.

230689. 'Mme. Raymond Poincare'.

230692 to 230696.

From the Institut Nacional de la Recherche Agromique, Versailles.

230692. 'Belle Bourguignonne'.

230695. 'Muscade'.

230693. 'Hercule'.

230696. 'Record'.

230694. 'Ma Preferee'.

230697 to 230718.

From R. Chapron, Rue de Maltot, Caen, Calvados.

230697. 'Carolina Superba'.

230708. 'Mme. Jacques Leroy Ladurie'.

230698. 'Centenaire'.

230709. 'Mme. Mesle'.

230699. 'Chatetaine de Grentheville'.

230710. 'Princess Clementine'.

230700. 'Delicieuse'.

230711. 'Reine de Precoces'.

230701. 'Frederic William'.

230712. 'Souvenir de Mabiroux'.

230702. 'Freja'.

230713. 'St. Claude'.

230703. 'Inepuisable'.

230714. 'Sulpice Barbe'.

230704. 'Josette Faure'.

230715. 'The Duke'.

230705. 'L'Aurore'.

230716. 'Triomphe de Tihange'.

230706. 'La Parisienne'.

230717. 'Ville de Caen'.

230707. 'Liberation d'Orleans'.

230718. 'Ville de Paris'.

230719. BOENNINGHAUSENIA ALBIFLORA (Hook.) Reichenb. Rutaceae.

From Japan. Seeds presented by H. Takeda, Mount Ishizuchiyama, Shikoku. Received Dec. 9, 1955.

An annual plant with attractive foliage.

230720. STEREOSPERMUM FIMBRIATUM DC. Bignoniaceae.

From China. Seeds presented by the Botanical Garden, Singapore. Received Dec. 19, 1955.

Tree to 80 feet high; flowers pale-lilac.

230721 to 230723.

From the Netherlands. Seeds presented by Grains-Seeds, Limited, Warmenhuizen. Received Dec. 19, 1955.

230721 and 230722. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.

230721 to 230723—Continued**230721 to 230722—Continued**

230721. 'Langendijk Autumn Nr. 53'.

230722. 'Langendijker Winter.'

230723. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

Yield heavy.

230724 to 230728. SACCHARUM (hybrids). Poaceae. Sugarcane.

From the British West Indies. Cuttings presented by the Central Sugarcane Breeding Station, Barbados. Received Dec. 20, 1955.

230724. B. 50 F 1.

230727. B. 50 F 4.

230725. B. 50 F 2.

230728. B. 50 F 5.

230726. B. 50 F 3.

230729 to 230780. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From Ethiopia. Seeds collected by Jean B. H. Lejeune, Food and Agriculture Organization of the United Nations, Addis Ababa. Received Dec. 20, 1955.

Collected in the forest region of Kaffa Province, about 16 miles from Mizan Tafari, October, 1955.

230729 to 230753.

From Babaca. Elevation 4,500 feet.

230729. Line 0127.

230742. Line 0140.

230730. Line 0128.

230743. Line 0141.

230731. Line 0129.

230744. Line 0142.

230732. Line 0130.

230745. Line 0143.

230733. Line 0131.

230746. Line 0144.

220734. Line 0132.

230747. Line 0145.

230735. Line 0133.

230748. Line 0146.

230736. Line 0134.

230749. Line 0147.

230737. Line 0135.

230750. Line 0148.

230738. Line 0136.

230751. Line 0149.

230739. Line 0137.

230752. Line 0150.

230740. Line 0138.

230753. Line 0151.

230741. Line 0139.

230754. Population 0152. From Einamba. Elevation 1,500 feet.

230755. Line 0101. From Bada Buna. Elevation 5,500 feet.

230756. Population 0102. From Jimma, Kaffa Prov. Elevation 5,600 feet.

230757. Population 0103. From Jimma, Kaffa Prov. Elevation 5,600 feet.

230758. Population 0104. From Bada Buna. Elevation 5,500 feet.

230759 to 230778. From Mizan Tafari. Elevation 4,700 feet.

230759. Line 0105.

230765. Line 0111.

230760. Line 0106.

230766. Line 0112.

230761. Population 0107.

230767. Line 0113.

230762. Line 0108.

230768. Line 0114.

230763. Line 0109.

230769. Line 0115.

230764. Line 0110.

230770. Population 0116.

230729 to 230780—Continued**230759 to 230778—Continued**

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|--------------------------|--------------------------|
| 230771. Line 0117. | 230775. Line 0121. |
| 230772. Line 0118. | 230776. Line 0122. |
| 230773. Line 0119. | 230777. Line 0123. |
| 230774. Population 0120. | 230778. Population 0124. |

230779. Population 0125. From Jimma. Elevation 5,700 feet.

230780. 'Moka du Sidamo'. Population 0126. Elevation 5,300 feet.

230781. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.
From Mexico. Tubers presented by Jose Morgadanés, Mexico City. Received Dec. 20, 1955.

230782 and 230783.

From India. Seeds presented by the Agricultural Research Institute, New Delhi. Received Dec. 21, 1955.

230782. MALLOTUS PHILIPPINENSIS (Lam.) Muell.-Arg. Euphorbiaceae. Kamalatre.

1-W-952.

230783. MEDICAGO SATIVA L. Fabaceae. Alfalfa.
Sirsa type "9."

230784 and 230785.

From Uganda. Seeds presented by the Department of Agriculture, Kawanda, Kampala. Received Dec. 21, 1955.

230784. COFFEA ARABICA var. ERECTA Cramer Rubiaceae. Coffee.

230785. COFFEA UGANDAE Cramer Coffee.

230786 and 230787. ARRACACIA XANTHORRHIZA Bancroft Apiaceae. Arracacha.

From Peru. Collected by E. E. Smith, Institute of Inter-American Affairs, Huanuco. Received Dec. 23, 1955.

230786. Red leaf bases.

230787. Green leaf bases.

230788. CAMELLIA SASANQUA Thunb. Theaceae. Sasanqua camellia.

From Portugal. Plants presented by Moreira da Silva and Sons, Porto. Received Dec. 27, 1955.

'Jaune'.

230789 to 230828. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

From Costa Rica. Seeds presented by the Instituto Inter-Americano de Ciencias Agricolas, Turrialba. Received Dec. 27, 1955.

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|--|-----------------------------------|
| 230789. 'Guadaloupe IAN-Guat'. T. 971. | 230795. 'Maragogipe'. T. 978. |
| 230790. 'Philippine IAN-Guat'. T. 972. | 230796. 'Sumatra'. T. 980. |
| 230791. 'Chocola' IAN-Guat'. T. 973. | 230797. 'Preanger'. T. 981. |
| 230792. T. 974. | 230798. 'Ceylon Hybrid'. T. 982. |
| 230793. 'Padang'. T. 975. | 230799. 'Bourbon'. Y. 983. (Red.) |
| 230794. 'Blue Mountain'. T. 977. | 230800. 'Purpurascens'. T. 986. |
| | 230801. 'Purpurascens'. T. 987. |
| | 230802. 'Guadaloupe'. T. 989. |

230789 to 230828—Continued

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| 230803. 'Surinam'. T. 990. | 230817. 'Columnaris'. T. 2158. |
| 230804. 'Padang'. T. 992. | 230818. 'Lauvina'. T. 2299. |
| 230805. 'Salv. Nacional'. T. 993. | 230819. 'Caturva'. C. 818. T. 2308. (Red.) |
| 230806. 'Bourbon'. T. 995. (Red.) | 230820. 'Cera'. (Selfed.) Col. 7. T. 2309. |
| 230807. 'Erecta'. T. 996. | 230821. 'Typica' f. 'Xanth.' (Selfed.) T. 2316. |
| 230808. 'Polysperma'. T. 1764. | 230822. 'Erecta'. T. 2395. |
| 230809. 'Salv. Nacional'. T. 1996. | 230823. 'Pantgoer'. T. 2401. |
| 230810. T. 1997. A. 187. | 230824. 'Bourbon Xanth'. T. 2540. |
| 230811. 'Semperflorens'. T. 1998. | 230825. 'Bourbon'. T. 2541. (Red.) |
| 230812. T. 1999. | 230826. 'Caturya Xanth'. T. 2542. |
| 230813. 'Semperflorens'. T. 2000. | 230827. 'Villalobos'. T. 2594. |
| 230814. 'Kona'. T. 2137. | 230828. T. 2900. |
| 230815. 'Surinam'. T. 2139. | |
| 230816. 'Pretoria'. T. 2143. | |

230829. CRINUM POWELLII Baker Amaryllidaceae. **Powell crinum.**
From California. Bulbs purchased from Oakhurst Gardens, Arcadia. Received Dec. 27, 1955.

230830. PHOENIX DACTYLIFERA L. Phoenicaceae. **Date palm.**
From Morocco. Seeds presented by the Station Horticole Experimental, Ksar-es-Souk. Received Dec. 27, 1955.

230831. CALOCARPUM SAPOTA (Jacq.) Merr. Sapotaceae. **Sapote.**
From Mexico. Seeds presented by the Institute of Agricultural Research, Mexican Ministry of Agriculture, Mexico City. Received Dec. 27, 1955.

230832 to 230834.

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Dec. 28, 1955.

Originally from Vientiane, Laos, Indochina.

230832. CITRUS sp. Rutaceae.

'Mak Nao Si'.

230833. CITRUS sp.

'Mak Veu'.

230834. CITRUS SINENSIS (L.) Osbeck

Sweet orange.

'Mak Som Van'.

230835. ASTRAGALUS sp. Fabaceae.

From Iran. Seeds presented by the Agricultural Division, United States Operations Mission, Teheran. Received Jan. 17, 1956.

230836 to 230860. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Hawaii. Plant material presented by the Experiment Station of the Hawaiian Sugar Planters' Association, Honolulu. Received Dec. 29, 1955. Collected in Thailand.

230836 to 230840. Cuttings.

230836. '01 Dang'.

230839. 'Nam Phung'.

230837. '01 Gunmli'.

230840. 'Tapow'.

230838. 'La Jia'.

230836 to 230860—Continued**230841 to 230860.** Seeds.

- 230841.** 'Thai #1'. Sara Buri and Phra Baht.
230842. 'Thai #2'. Sixteen miles south of Chinat.
230843. 'Thai #3'. Near Chinat.
230844. 'Thai #4'. North of Nakhon Sawan.
230845. 'Thai #5'. Swampy area south of Sukhothal.
230846. 'Thai #6'. Swampy area near Kamphaeng Phet.
230847. 'Thai #8'. Swampy roadside near Kamphaeng Phet.
230848. 'Thai #9'. Bank of Wang River near Tern.
230849. 'Thai #10'. From stream bank near Chieng Mai.
230850. 'Thai #11'. From Chieng Mai Mountain.
230851. 'Thai #12'. Three miles north of Ping Kong, Chieng Dao.
230852. 'Thai #13'. From swamp near Pany Makum POM (Fang District).
230853. 'Thai #14'. From stream bank at Huey Ngum KM 119 North of Chieng Mai.
230854. 'Thai #15'. Huey Krai, Kang District.
230855. 'Thai #16'. From stream bank, Fang District.
230856. 'Thai #17'. From stream bank, Tern District, south of Lampang.
230857. 'Thai #18'. From stream bank at Mae Suey near Chieng Rai.
230858. 'Thai #19'. From Nakorn Chum near Kamphaney Phet.
230859. 'Thai #20'. From Nakhon Sawan.
230860. 'Thai #21'. From swampy area near Lopburi.

230861 to 230874.

From Wisconsin. Plant material grown at the Potato Introduction Project Branch Experiment Station, Sturgeon Bay. Numbered Dec. 29, 1955. Received from the Field Crop Insect Laboratory, Fredericton, New Brunswick, Canada.

Tubers unless otherwise noted.

230861. *SOLANUM CHACOENSE* Bitter Solanaceae.

FCE 103. (4n form) Feb., 1952.

230862 to 230864. *SOLANUM COMMERSONII* Dunal

230862. FCE 105.7. November 1952.

230863. FCE 105.8. November 1952.

230864. FCE 105.11. November 1952.

230865 and 230866. *SOLANUM LANCIFORME* Rydb.

230865. FCE 106. June 22, 1954.

230866. FCE 107. Sept. 7, 1954.

230867 to 230870. *SOLANUM RYBINII* Juz. & Buk.

230867. FCE 108. (Seeds.) 1951.

230868. FCE 109.1. Sept. 21, 1955.

230869. FCE 109.2. Sept. 21, 1955.

230870. FCE 109.3. Sept. 21, 1955.

230871 to 230874. *SOLANUM* (hybrids).

(*S. chacoense* × *S. rybinii*). Sept. 21, 1955.

230861 to 230874—Continued**230871 to 230874—Continued****230871.** FCE 113.15.**230873.** FCE 113.69.**230872.** FCE 113.24.**230874.** FCE 113.92.**230875.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae.**Yellow sweetclover.**

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Production, Zemun. Received Dec. 30, 1955.

230876. *CROTALARIA* sp. Fabaceae.

From Peru. Seeds presented by Arthur F. Swanson, Lima. Received Dec. 30, 1955.

Collected near Lamas in the Amazon region. Elevation 3,280 feet. Plant to 5 feet high; pods roundish.

INDEX OF COMMON AND SCIENTIFIC NAMES

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