

CATALOGUE
OF THE
FLORA OF THE WABASH VALLEY

BELOW THE MOUTH OF WHITE RIVER,

AND OBSERVATIONS THEREON.

BY J. SCHNECK, M. D.

Mt. CARMEL, ILL., Jan. 1. 1876.

PROF. E. T. COX,

State Geologist of Indiana :

SIR:—I have the pleasure of herewith presenting a catalogue of the flora of the lower Wabash valley, so far as I have ascertained, with notes on the distribution, frequency of occurrence, and time of flowering of plants found here ; and such general observations as was thought would be of interest.

In order to make it more valuable to those of the readers of your Report who are not familiar with the scientific names of plants, I have thought it best (although in some respects objectionable and unreliable) to add, in parenthesis, the usually recognized common, and more extensive local names.

The identifications were made mostly by myself, but in every instance where there was the least doubt, I have

sent specimens to good authorities, in order to have the diagnosis as perfect as possible. I take great pleasure in here acknowledging my most sincere thanks to those gentlemen who have so kindly assisted me in this work.

Very respectfully,

J. SCHNECK.

INTRODUCTION.

The territory in which the plants, named in the following catalogue, have been found, comprises a part of the counties of Gibson and Posey in Indiana; and Wabash, Edwards, White and Gallatin, in Illinois. The greater portion of the work, however, has been confined to the first three counties named.

The region thus embraced presents a good variety of physical features, consisting of extensive river bottoms, hills, prairies, barrens, rocky bluffs, glades, copses and swamps, intersected with numerous small streams, ponds, lagoons and bayous (the two latter doubtless the remains of former beds of the Wabash river). The Wabash, meandering through it in a south southwest direction, is bordered the greater distance, on both sides, by a rich, alluvial, heavily timbered bottom land, extending back as far as ten miles in some localities, when it usually terminates in a steep range of very heavily timbered, rock-bedded hills; or, rising less abruptly, gradually passes into a prairie, or what was once a prairie or barrens, but is now covered with a luxuriant growth of young valuable forest. In some localities, however, the hilly or prairie lands commence at the river bank for a short distance, thus forming steep banks or rocky bluffs.

A physical feature that is very remarkable and gives a peculiar appearance and interest to these bottom lands, is the short isolated ranges of hills or upheavals, scattered through them at irregular intervals, varying in length

or breadth from one to three or more miles, in height from fifty to one hundred and fifty feet; are usually very steep, forming in some instances extensive rocky cliffs. The timber growth is remarkably heavy on these ridges and appears to be coeval with that of the more extensive ranges; both are, or have been, covered by an unusually massive growth of timber, principally White Oak (*Quercus alba*), Tulip Tree (*Liriodendron tulipifera*) and Sugar Maple (*Acer saccharinum*), interspersed by an extensive variety of smaller trees, with a luxuriance and great abundance of annuals and perennials.

In strong contrast with these sudden elevations, nestled at their bases, are frequently found ponds, bayous and lakelets, sometimes several miles in extent. These are usually heavily fringed at their water's edge with such vegetation as is peculiar to muddy situations; prominently among them are: Arrow Head (*Sagittaria variabilis*, *S. heterophylla*), Pickerel Weed (*Pontederia cordata*), Mud Plantain (*Heteranthera reniformis*), Water Plantain (*Alisma plantago*, var. *Americanum*), &c. These in turn are overhung by a profusion of Willows (*Salix nigra*, and *S. petiolaris*), Button Bush (*Cephalanthus occidentalis*), Swamp Dogwood (*Cornus paniculata*), Spice Bush (*Lindera benzoin*), Red Birch (*Betula nigra*), &c., shading off into a deep forest of trees, whose lofty, limbless shafts appear as so many massive columns supporting the over-hanging canopy.

The annual freshets and overflows have, in many localities, deposited extensive sand ridges and drifts of wood, which add greatly to the primitive appearance of these woods. A closer examination of these small bodies of water proves them to be exceedingly rich in aquatic vegetation; here are found in abundance and luxuriance the Nelumbo (*Nelumbium luteum*), (I have measured a leaf, three feet three and one-half inches in diameter,) the lovely sweet-scented White Pond-Lily (*Nymphaea odorata*), Yellow Pond-Lilies (*Nuphar advena* and *N. sagittifolia*), Pondweed (*Potamogeton natans* and *P. lucens*), Cabomba (*C.*

Caroliniana), Water Target (*Brasenia peltata*), &c. In other localities one suddenly emerges from the dense forests, into a grassy opening or glade, which is at once recognized as the remains of a pond or miry swamp.

It is but natural to conclude, that, situated as we are, near the central point in the great Mississippi valley, at an elevation varying from three hundred and fifty to six hundred feet above sea level, with a temperature ranging from -24° to $+104^{\circ}$, that our flora would be equally variable and rich in numbers of species. As an evidence of the variability of our seasons, I will give my notes of the first leafing and first flowering of some of our earliest species, taken in the springs of 1872 and 1874. The winter of 1872 was unusually cold, the spring began late and suddenly. While the winter of 1874 was open and mild, spring began early, but it remained cold longer than usual. It will be noticed, there is considerable difference, until near the end of March, after which they run nearly the same the remainder of the spring.

NOTES.

NAMES.	Time of Leafing.		Time of Flowering.	
	1872.	1874.	1872.	1874.
Red or Swamp Maple (<i>Acer rubrum</i>).....	Apr. 12.	Mar. 28	Mar. 20	Feb. 15
White Maple, (<i>Acer dasycarpum</i>).....	" 12.	" 31	Apr. 8.	.....
Sugar Maple, (<i>Acer saccharinum</i>).....	" 15.	" 20	.....	Mar. 10
Wild Columbine, (<i>Aquilegia Canadensis</i>).....	" 20.	.....	.....	.....
Shagbark Hickory, (<i>Carya alba</i>).....	" 13.	Apr. 10.	Apr. 20.	Apr. 15.
Red-bud, (<i>Cercis Canadensis</i>).....	" 20.	" 15.	" 10,	" 15.
Flowering Dogwood, (<i>Cornus florida</i>).....	" 20.	.....	.....	" 30.
Spring Beauty, (<i>Claytonia Virginica</i>).....	" 6.	Apr. 1.	Apr. 12.	" 15.
Japan Quince, (<i>Cydonia Japonica</i>).....	Mar. 20	Mar. 10	Mar. 28	Mar. 20
Common Quince, (<i>Cydonia vulgaris</i>).....	Apr. 15.	Apr. 7.	.....	.....
Chestnut, (<i>Castanea vesca</i>).....	" 18.	" 15.	.....	Mar. 20
Wild Cherry, (<i>Cerasus serotina</i>).....	.....	" 20.	.....	Apr. 14.
Common Cherry, (<i>Cerasus vulgaris</i>)... ..	Apr. 15.	" 12.	.....	.....
Black Thorn, (<i>Crataegus tomentosa</i> var. <i>mollis</i>).....	" 22.	" 25.	.....	.....
Pepper-root, (<i>Dentaria laciniata</i>).....	.....	.....	Apr. 10.	Apr. 4.
Dutchman's Breeches, (<i>Dentaria cucullaria</i>).....	.....	.....	Mar. 22	Mar. 15
American Cowslip, (<i>Dodecatheon Meadia</i>).....	.....	.....	Apr. 28.	Apr. 30.
Yellow Erythronium. (<i>Erythronium Americanum</i>)..	.....	.....	" 5.	" 1.
Pepper-and-Salt, (<i>Eriogenia bulbosa</i>).....	.....	.....	Mar. 21	Mar. 12
Forsythia, (<i>Forsythia suspensa</i>).....	Apr. 10.	Apr. 1.	" 21	" 15
Strawberry, (<i>Fragaria vesca</i>).....	.....	.....	Apr. 15.	Apr. 12.
Spotted Geranium, (<i>Geranium maculatum</i>).....	Apr. 20.	Apr. 15.	.....	.....
Liverwort, (<i>Hepatica acutiloba</i>).....	.....	.....	Mar. 15	Mar. 15
False Rue Anemone, (<i>Isopyrum bilernatum</i>).....	.....	.....	Apr. 20.	Apr. 16.
Common Blue Flag, (<i>Iris versicolor</i>).....	Apr. 30.	Apr. 28.	.....	.....
Dwarf Iris, (<i>Iris pumila</i>).....	.....	.....	Apr. 5.	Apr. 1.
Tulip or Poplar Tree, (<i>Liriodendron tulipifera</i>).....	Apr. 15.	Apr. 4.	.....	.....
Gromwell, (<i>Lithospermum latifolium</i>).....	" 15.	Apr. 15.	.....	.....
Smooth Lung-wort; Blue Cell (<i>Mertensia Virginica</i>).....	.....	.....	Apr. 20.	Apr. 20.
Black Gum, (<i>Nyssa multiflora</i>).....	May 1.	May 2.	.....	.....
Box Elder, (<i>Negundo aceroides</i>).....	Apr. 30.	Apr. 20.	.....	Mar. 29
Red or Yellow Plum, (<i>Prunus Americana</i>).....	.....	.....	Apr. 10.	Apr. 10.
Common Garden Plum, (<i>Prunus domestica</i>).....	.....	.....	" 12.	" 8.

NOTES.

NAMES.	Time of Leafing.		Time of Flowering.	
	1872.	1874.	1872.	1874.
Apple, (<i>Pyrus malus</i>)	Apr. 13.	Apr. 12.	“ 20.	“ 25.
Pear, (<i>Pyrus communis</i>).....	.....	“ 15.	.....	“ 15.
Sweet-scented Crab-tree, (<i>Pyrus coronaria</i>).....	.....	“ 15.	.....	May 8.
May Apple, (<i>Podophyllum peltatum</i>).....	Mar. 30	“ 7.	.....	.....
Greek Valerian, (<i>Polemonium reptans</i>).....	.....	.....	Apr. 15.	Apr. 10.
Sycamore, (<i>Platanus occidentalis</i>).....	May 1...	May 3...	.....	.....
White Oak, (<i>Quercus alba</i>).....	Apr. 13.	Apr. 12.	.....	.....
Water or Pin Oak, (<i>Quercus palustris</i>).....	.....	.....	Apr. 17.	Apr. 15.
Red Oak, (<i>Quercus rubra</i>).....	Apr. 24.	Apr. 25.	“ 18.	“ 20.
Shingle or Laurel Oak, (<i>Quercus imbricaria</i>).....	May 3...	May 2...	May 9...	May 12.
Black or Tanner's Oak, (<i>Quercus tinctoria</i>).....	Apr. 28.	Apr. 25.	Apr. 17.	Apr. 20.
High Blackberry, (<i>Rubus villosus</i>).....	“ 20.	“ 12.	.....	.....
Dog Rose, (<i>Rosa canina</i> var. <i>Burboniana</i>).....	“ 15.	“ 7.	.....	.....
Carolina Rose, (<i>Rosa Carolina</i>).....	“ 14.	“ 14.	.....	.....
Buttercup, (<i>Ranunculus abortivus</i>).....	.....	.....	Apr. 15.	Apr. 10.
Common Lilac, (<i>Syringa vulgaris</i>).....	Apr. 19.	Apr. 21.	“ 12.	“ 22.
Red Puccoon; Blood Root, (<i>Sanguinaria Canadensis</i>)	Mar. 20	Mar. 22	“ 5.	“ 2.
Elder, (<i>Sambucus Canadensis</i>).....	“ 18	“ 16	.....	.....
Weeping Willow, (<i>Salix Babylonica</i>).....	May 12.	May 14.	.....	.....
American Elm, (<i>Ulmus Americana</i>).....	Apr. 28.	Apr. 25.	Mar. 20	Mar. 10
Black Haw, (<i>Viburnum prunifolium</i>).....	Mar. 27	Mar. 25	Apr. 10.	Apr. 10.

A review of the accompanying catalogue cannot fail to impress one with the abundance of those species that are also common to the Southern States; notably among them are, Cross-Vine (*Bignonia capreolata*), Catalpa (*Catalpa bignonioides*), Trumpet Flower (*Tecoma radicans*), Pecan (*Carya olivæformis*), Pipe-Vine (*Aristolochia tomentosa*), Persimmon (*Diospyros Virginiana*), Sweet Gum (*Liquidambar Styraciflua*), Hackberry (*Celtis Mississippiensis*),

Bald Cypress (*Taxodium distichum*), Water Locust (*Gleditschia monosperma*), &c. This list could be extended until it included one-half of our flora.

The following is a list of plants found here, that are out of the habitat usually given them in text-books. It will be observed that most of them are southern :

Cabomba Caroliniana.
Nasturtium sessiliflorum.
Vitis indivisa.
Agrimonia parviflora.
Cynthia dandelion.
Hottonia inflata.
Chelone Lyoni.?
Potamogeton pectinatus.
Smilax glauca.
Eragrostis poeoides.
Aspidium acrostichoides.
Nuphar sagittifolia.
Hypericum Drummondii.
Polygala ambigua.
Gnaphalium purpureum.
Campanula divaricata.
Martinia proboscidea.
Potamogeton, gramineus, var. spatuliformis.
Pancreatium rotatum.
Carex retrorsa.
Asplenium angustifolium.
Tilia heterophylla.

Nor is this deep tincturing of the southern types confined to the flora ; but scattered through the various reports on the fauna of this district, are found many birds, reptiles, insects and mammals that are decidedly tropical in aspect and habitat.

A ramble through our woods can not fail to make this impression more convincing, not only by the great numbers of species that are common to the Southern States, but also by their unusually profuse and luxuriant growth. Here I have found a Grape Vine (*Vitis labrusca*), thirty-two inches in circumference, and near one hundred and fifty feet long, hanging from the massive branches of a lofty tree, appearing as if a monstrous cable suspended from the

overhanging sky; Trumpet Vine (*Tecoma radicans*), thirty-eight and one-half inches in circumference, and climbing to the topmost branches of a tall tree, decorating it from root to top with a profusion of its foliage and orange-red trumpet-shaped flowers. Cross-Vine (*Bignonia capreolata*), ascending in a straight line the massive shaft of an oak, elm, or black walnut, to the height of seventy-five feet, its green, scarlet-tinged foliage of winter persisting until late spring. Single-seed Cucumber (*Sicyos angulatus*), matting all bushes and vegetation, within ten feet of its root, into a thicket; or climbing up a neighboring tree to the distance of sixty-three feet. And in one instance six climbing plants (*Smilax rotundifolia*, *Menispermum Canadense*, *Ampelopsis quinquefolia*, *Bignonia capreolata*, *Vitis cordifolia*, *Aristolochia tomentosa*), supporting themselves on the body and branches of one small American Elm.

In the annexed table is given the maximum measurements of several of the most common species of trees. The measurements in each case are those of one individual.

The measurements can only be regarded as those of the remnant of a once extensive, luxuriant and exceedingly massive growth of forest trees. Could they be compared with those that might have been taken fifty or seventy-five years ago, they would doubtless be far surpassed. One can not suppress a sigh of regret over the many prostrate and decaying bodies of those grand old monarchs of the forest, whose venerable lives have been sacrificed, when in their fullest manhood and grandeur, by the indefatigable frontiersman, for a hive of honey-bees or a raccoon that has sought refuge and a home in the hollows of their bodies or massive limbs.

While the wasteful destruction of timber has been great, yet it can in no way be compared with the amount annually taken from those woods for useful purposes. Scattered through the country, and at almost every bend of the river, will be found saw mills; some of which have been almost daily doing the work of destruction for the last fifty years. And of late, the more ravenous, portable saw mills have gone to the more inaccessible localities, until there is scarcely

TABLE OF MEASUREMENTS.

NAME.	Circumference 3 feet from ground or above roots and swell.	Hight of trunk from root to first branch.	Total hight
Pecan, (<i>Carya olivæformis</i>).....	16 feet.	90 feet.	175 feet.
Black Oak, (<i>Quercus coccina</i> , var. <i>tinctoria</i>)	20 "	75 "	160 "
Burr Oak, (<i>Quercus macrocarpa</i>).....	22 "	72 "	165 "
White Oak, (<i>Quercus alba</i>).....	18 "	60 "	150 "
Persimmon, (<i>Diospyrus Virginiana</i>).....	5½ "	80 "	115 "
Black Walnut, (<i>Juglans nigra</i>).....	22 "	74 "	155 "
Honey Locust, (<i>Gleditschia triacanthos</i>).....	18 "	61 "	129 "
Catalpa, (<i>Catalpa bignonioides</i>).....	6 "	48 "	101 "
Mulberry, (<i>Morus rubra</i>).....	10½ "	20 "	62 "
Scarlet Oak, (<i>Quercus coccinea</i>).....	20½ "	94 "	181 "
Sassafras, (<i>Sassafras officinale</i>).....	7¾ "	75 "	95 "
Base-Wood, (<i>Tilia Americana</i>).....	17½ "	50 "	109 "
Bald Cypress, (<i>Taxodium distichum</i>).....	18¾ "	74 "	146 "
Red Maple, (<i>Acer rubrum</i>).....	13 "	60 "	108 "
Sycamore, (<i>Platanus occidentalis</i>).....	33¾ "	68 "	176 "
Tulip Tree, (<i>Liriodendron tulipifera</i>).....	25 "	91 "	190 "
White Ash, (<i>Fraxinus Americana</i>).....	17½ "	90 "	144 "
Cotton Wood, (<i>Populus monilifera</i>).....	22 "	75 "	170 "
Sweet Gum, (<i>Liquidamber styraciflua</i>).....	17 "	80 "	164 "
Black Hickory, (<i>Carya tomentosa</i>).....	10½ "	55 "	112 "
Sugar Maple, (<i>Acer saccharinum</i>).....	12½ "	60 "	118 "
Water Oak, (<i>Quercus palustris</i>).....	12 "	23 "	120 "
Beech, (<i>Fagus ferruginea</i>).....	11 "	10 "	122 "

to be found a spot from which the best timber has not been culled. Judging from the past, it is safe to say: the time is not distant when there will scarcely be left a sample of those monuments of centuries growth.

Another noteworthy feature of the Wabash valley is, the readiness with which foreign plants make their way to fields and woods and become apparently perfectly naturalized.

The following is a list of plants that have become naturalized and are common, but which are usually considered as adventive in text-books :

Lychnis Githago.
Abutilon Avicennæ.
Nepeta Cataria.
Heliophytum Indicum.
Nicandra physaloides.
Datura stramonium.
Amarantus paniculatus.
Salix alba, var. vitellina.
Dactyloctenium Ægypticum.
Setaria glauca.
Malva sylvestris.
Trifolium pratense?
Nepeta Glechoma.
Ipomœa Nil.
Lycium vulgare.
Datura tatula.
Cannabis sativa.
Pardanthus Chinensis.
Bromus secalinus?.

Not only is the flora constantly changing by the addition of foreign species, but as civilization advances many of the indigenous plants will have to be stricken from the Flora of the Lower Wabash, as the red man, buffalo, bear, panther, elk, deer and paroquet have been from the fauna, and noted with the things that have passed away. Prominently among them are: Small White Lady's Slipper (*Cypripedium candidum*), Smaller Yellow Lady's Slipper (*Cypripedium parviflorum*), Star-Grass (*Aletris farinosa*), Wild Orange-red Lily (*Lilium Philadelphicum*), Turk's-cap Lily (*Lilium superbum*), Squill (*Scilla Fraseri*), Prickly Pear (*Opuntia Rafinesquii*), Smooth Lungwort (*Mertensia Virginica*). Others will be noticed in their proper places in the catalogue. However, the most striking changes of the flora are those that have been, and are still being wrought on our prairies. Here for many years the numerous perennial grasses, sedges and compositæ, aided by the autumnal prairie fires, held entire sway over such plants as do not annually die down to the root. In proportion as

civilization advanced, prairies were converted into fields, the outlying portions of good grass were mown in summer for hay; and thus in a few seasons the annual visitations of fire suppressed. As a result, in a few years a thick growth of young trees sprung up. And to-day we have, instead of the waving sea of grass, a luxuriant young forest of valuable timber. There are at present more acres of timbered land in some counties of the lower Wabash valley than there were fifty years ago; notwithstanding there have been annually hundreds of acres of forest land cleared and converted into farms. I have conversed with many of the older and more observing citizens on this subject, and find this the uniform opinion among them.

CATALOGUE.

ORDER 1. **RANUNCULACEÆ.** CROWFOOT FAMILY.

Genus 1. **CLEMATIS**, L. Virgin's Bower.

1. **C. Pitcheri**, Torr. & Gray.
Bottom lands, scarce. June, Aug.
2. **C. Virginiana**, L. Common Virgin's Bower.
Rich loose soil and thickets, scarce. July, Sept.

Genus 2. **ANEMONE**, L. Wind-Flower.

1. **A. Virginiana**, L. Virginian Anemone.
Woods and fields, not rare. May, July.
2. **A. Pennsylvanica**, L. Pennsylvanian Anemone.
Shaded woods, rare.
3. **A. nemorosa**, L. Wind-Flower. Wood Anemone.
Open woods, common. April, June.

Genus 3. **HEPATICA**, Dill. Silver-Leaf.

1. **H. acutiloba**, D. C. Sharp-lobed Hepatica.
Rocky or shaded hillsides, common. March, April.

Genus 4. **THALICTRUM**, Tourn. Meadow Rue.

1. **T. anemonoides**, Michx. Rue Anemone.
Open rich woods, rare. March, April.
2. **T. dioicum**, L. Early Meadow Rue.
Open woods, common. March, May.
3. **T. purpurascens**, Purple Meadow Rue.
Thickets and rich grounds, common. May, July.

Genus 5. **RANUNCULUS**, L. Crowfoot. Butter-Cup.

1. **R. aquatilis**, L. var. **trichophyllus**, Chaix. Common White Water Crowfoot.
Ponds, rare. May, Aug.
2. **R. multifidus**, Pursh. Yellow Water Crowfoot.
Ponds, not rare. May, July.
3. **R. abortivus**, L. Small Flowered Crowfoot.
Moist rich ground, common. April, July.
4. **R. abortivus**, L. var. **micranthus**, Gray.
Hillsides, rare. April, May.
5. **R. recurvatus**, Poir, Hooked Crowfoot.
Prairies and fields, common. April, May.
6. **R. fascicularis**, Muhl. Early Crowfoot.
Hilly woods and fields, not rare. March, May.
7. **R. repens**, L. Creeping Crowfoot.
Low wet places about streams, abundant. April, July.

Genus 6. **MYOSURUS**, Dill. Mouse Tail.

1. **M. minimus**, L.
Bottom lands, rare, April.

Genus 7. **ISOPYRUM**, L.

1. **I. biternatum**, Torr. & Gray. False Rue Anemone.
Open woods, rare. April, May.

Genus 8. **AQUILEGIA**, Tourn. Columbine.

1. **A. Canadensis**, L. Wild Columbine.
Rocky hillsides, not rare. April, July.
2. **A. vulgaris**, L. Garden Columbine.
Escaped from gardens to fields. June, Aug. Adv. from Eu.

Genus 9. **DELPHINIUM**, Tourn. Larkspur.

1. **D. tricornis**, Michx. Dwarf Larkspur.
Rich woods, common. April, May. Flowers, deep purplish blue.
2. **D. consolida**, L. Garden Larkspur,
Escaped from gardens to fields and roadsides. June, Aug.
Adv. from Eu.

Genus 10. **HYDRASTIS**, L. Orange Root. Yellow Puccoon.

1. **H. Canadensis**, L. Ground Raspberry. Turmeric Root.
Hilly woods, becoming rare. May, June.

Genus 11. **ACTÆA**, L. Baneberry.

1. **A. alba**, Begel. White Baneberry.
Rich shaded woods, rare. May, June. Variable.

Genus 12. **CIMICIFUGA**, L. Bugbane.

1. **C. racemosa**, Ell. Black Snakeroot, Black Cohosh, Rattle Root, Squaw Root.
Rich sandy woods, very rare. May, June. Once common, now almost extinct.

Genus 13. **ADONIS**, L. Pheasant's Eye.

1. **A. autumnalis**, L.
Escaped from gardens to fields and roadsides. Adv from Eu.

Genus 14. **NIGELLA**, L. Fennel Flower.

1. **N. Damascena**, L. Ragged Lady. Devil-in-a-bush.
Escaped from gardens to roadsides and fields. Adv. from Eu.

ORDER 2. **MAGNOLIACEÆ**. MAGNOLIA FAMILY.

Genus 1. **LIRIODENDRON**, L. Tulip Tree.

1. **L. tulipifera**, L. White, Blue or Yellow Poplar. White Wood.
Rich hilly soil, common. May, June.

ORDER 3. **ANONACEÆ**. CUSTARD-APPLE FAMILY.

Genus 1. **ASIMINA**, Adans. North American Pawpaw.

1. **A. triloba**, Dunal. Common Pawpaw.
Rich woods, common. April, May.

ORDER 4. **MENISPERMACEÆ**. MOONSEED FAMILY.

Genus 1. **COCCULUS**, D. C. Cocculus.

1. **C. Carolinus**, D. C.
Rich sandy soil in river bottoms, common. June, Aug.

Genus 2. **MENISPERMUM**, L. Moonseed.

1. **M. Canadense**, L. Canadian Moonseed. Yellow Parilla Vine.
Maple Sarsaparilla.
Rich alluvial soil, common. June, July.

ORDER 5. **BERBERIDACEÆ**. BARBERRY FAMILY,

Genus 1. **CAULOPHYLLUM**, Michx. Blue Cohosh.

1. **C. thalictroides**, Michx. Pappoose Root.
Rich shaded woods, rare.

Genus 2. **PODOPHYLLUM**, L. May-Apple. Mandrake.

1. **P. peltatum**, L. Wild Lemon. Raccoon Berry. Wild Mandrake.
Rich ground, very common. April, May.

ORDER 6. NYMPHÆACEÆ. WATER-LILY FAMILY.Genus 1. **BRASENIA**, Schreber. Water Shield.

1. **B. peltata**, Pursh.
Deep ponds, not rare.

Genus 2. **CABOMBA**, Ablet.

1. **C. Caroliniana**, Gray.
Deeper ponds, common. May, Sept.

Genus 3. **NELUMBIUM**, Juss. Nelumbo. Sacred Bean.

1. **N. luteum**, Willd. Yellow Nelumbo. Water or Pond Chin-
quepin. Yonkiepin.
Ponds, common. June, Sept,

Genus 4. **NYMPHÆA**, Tourn. Water Nymph. Water Lily.

1. **N. odorata**, Ait. Sweet-Scented Water Lily. White Pond
Lily.
Ponds and sluggish streams, common. June, Oct.

Genus 5. **NUPHAR**, Smith. Yellow Pond Lily. Spatter Dock.

- 1, **N. advena**, Ait. Common Yellow Pond Lily.
Muddy stagnant water, common. May, Oct.
2. **N. sagittifolia**, Pursh.
Deeper ponds, rare. Aug.

ORDER 7. PAPAVERACEÆ. POPPY FAMILY.Genus 1: **ARGEMONE**, L. Prickly Poppy.

1. **A. Mexicana**, L. Mexican Prickly Poppy.
Escaped from flower garden. June, Nov. Adv. from Trop.
Amer.

Genus 2. **SANGUINARIA**. Dill. Blood Root.

1. **S. Canadensis**, L. Red Puccoon.
Rich hilly woods, abundant. March, April.

ORDER 8. FUMARIACEÆ. FUMITORY FAMILY.Genus 1. **DICENTRA**, Bork. Dutchman's Breeches.

1. **D. Cucullaria**, D. C. Dutchman's Breeches.
Steep hillsides, not rare. March, April.

Genus 2. **CORYDALIS**, Vent.

1. **C. flavula**, Raf. Yellow Corydalis.
Rich shaded woods, rare.

ORDER 9. **CRUCIFERÆ**. MUSCARD FAMILY.Genus 1. **NASTURTUM**, R. Br. Water Cress.

1. **N. sessiliflorum**, Nutt.
Wet places, not rare. April, July.
2. **N. palustre**, D. C. Marsh* Cress.
Wet places, common. May, Aug.
3. **N. lacustre**, Gray. Lake Cress.
Ponds and slow waters, common. June, Sept.
4. **N. armoracia**, Frise. Horse Radish.
Moist grounds about farms. Escaped from gardens. June,
July. Adv. from Eu.

Genus 2. **DENTARIA**, L. Toothwort. Pepper Root.

1. **D. laciniata**, Muhl.
Moist rich soil, abundant. March, May. Exceedingly variable, often answering better to the description of **D. multifida**, Muhl. or **D. heterophylla**, Nutt.

Genus 3. **CARDAMINE**, L. Bitter Cress.

1. **C. rhomboidea**, D. C. Spring Cress.
Low wet places, common. March, May.
2. **C. hirsuta**, L. Small Bitter Cress.
Moist grounds, common. April, June.

Genus 4. **ARABIS**, L. Rock Cress.

1. **A. lævigata**, D. C.
Rocky bluffs, not common. June, July.
2. **A. hesperidoides**, Gray.
Low rich woods, abundant. April, July.

Genus 5. **SISYMBRIUM**, L. Hedge Mustard.

1. **S. officinalis**, Scop. Hedge Mustard.
Fields and dwellings, common. April, Dec. Nat. from Eu.

Genus 6. **BRASSICA**, Gray.

1. **B. nigra**, Gray. Black Mustard.
About dwellings and fields, common. June, Aug. Nat.
from Eu.

Genus 7. **DRABA**, L. Whitlow Grass.

1. **D. brachycarpa**, Nutt.
Dry sandy soil, common. March, April.

Genus 8. **CAPSELLA**, Vent. Shepherd's Purse.

1. **C. Bursa-pastoris**, Mench.
About dwellings and fields, abundant. April, Dec. Nat.
from Eu.

Genus 9. **LEPIDIUM**, L. Pepperwort. Peppergrass.

1. **L. Virginicum**, L. Wild Peppergrass. Tongue-Grass.
Cultivated grounds, common. May, Sept.

ORDER 10. **CAPPARIDACEÆ**. CAPER FAMILY.Genus 1. **POLANISIA**, Raf.

1. **P. graveolens**, Raf.
Sandy and gravelly shores, not rare. June, Sept.

Genus 2. **CLEOME**, L.

1. **C. pungens**, L. Spider Flower.
Escaped from gardens. June, Oct. Adv. from W. India.

ORDER 11. **VIOLACEÆ**. VIOLET FAMILY.Genus 1. **VIOLA**, L. Violet. Heart's-ease.

1. **V. primulæfolia**, D. Primrose-leaved Violet.
Moist soil, rare. April, May.
2. **V. cucullata**, Ait. Common Blue Violet.
Woods and hillsides, abundant. March, July.
3. **V. cucullata** var. **palmata**, Gray. Hand-leaf Violet.
Open woods, not rare. March, June.
4. **V. delphinifolia**, Nutt. Larkspur-leaved Violet.
Prairie, rare. May.
5. **V. striata**, Ait. Pale Violet.
Low grounds, scarce.
6. **V. pubescens**, Ait. Downy Yellow Violet.
Rich moist wood, rare. April, June.
7. **V. tricolor**, L. Pansy. Heart's-ease. Johnny-jump-up.
About old fields and dwellings, rare. March, July. Escaped
from gardens. Hardly naturalized.
8. **V. tricolor** var. **arvensis**, Gray.
Fields and open rich woods, not rare. March, Sept. Nat.
from Eu.

ORDER 12. **HYPERIACEÆ**. ST. JOHNS-WORT FAMILY.Genus 1. **HYPERICUM**, L. St. John's-wort.

1. **H. prolificum**, L. Shrubby St. John's-wort.
Moist places, rare. June, Aug.
2. **H. adpressum**, Barton.
Moist soil, scarce.
3. **H. perforatum**, L. Common St. John's-wort.
Moist fields, common. June, Sept. Nat. from Eu.
4. **H. corymbosum**, Muhl.
Damp grounds, common. June, Sept.
5. **H. multilum**, L. Dwarf St. John's-wort.
Wet shaded places, common. June, Sept.
6. **H. Drummondii**, Torr. & Gray.
Dry hard soil, rare.
7. **H. Sarothra**, Michx.
Sterile sandy soil, rare.

Genus 2. **ELODES**, Adams. Marsh St. John's-wort.

1. **E. Virginica**, Nutt.
In a cypress swamp. Sept.

ORDER 13. **ELATINACEÆ**. WATER-WORT FAMILY.

Genus 1. **ELATINE**. Water-wort.

1. **E. Americana**, Arnott.
Moist places, not rare. May, June.

ORDER 14. **CARYOPHYLLACEÆ**. PINK FAMILY.

Genus 1. **SAPONARIA**, L. Soapwort.

1. **S. officinalis**, L. Common Soapwort. Bouncing Bet.
Streets and roadsides. June, Sept. Escaped from gardens.
Adv. from Eu.

Genus 2. **SILENE**, L. Catchfly. Campion.

1. **S. stellata**, Ait. Starry Campion.
Woods and fields in sandy places, not rare. June, Aug.
2. **S. Armeria**, L. Sweet-William Catchfly.
Escaped from gardens. June, Sept. Adv. from Eu.
3. **S. antirrhina**, L. Sleepy Catchfly.
In poor grounds among the cereals, common. May, Sept.

Genus 3. **LYCHNIS**, Tourn. Lychnis. Cockle.

1. **L. Githago**, Lam. Corn Cockle.
In fields among the cereals, too common. June, July. Nat.
from Eu.

Genus 4. **STELLARIA**, L. Chickweed. Starwort.

1. **S. longifolia**, Muhl. Long-leaved Stitchwort.
About fields, not rare. May, June.

Genus 5. **CERASTIUM**, L. Mouse-ear Chickweed.

1. **C. viscosum**, L. Larger Mouse-ear Chickweed.
About fields, common. April, July. Nat. from Eu.
2. **C. nutans**, Raf.
Fields and pastures, common. April, June.
3. **C. oblongifolium**, Torr.
Dry prairie soil, rare.

Genus 6. **SAGINA**, L. Pearlwort.

1. **S. apetala**, L.
Dry woods, rare, June.

Genus 7. **ANYCHIA**, Michx. Forked Chickweed.

1. **A. dichotoma**, Michx.
Moist rich woods, not rare. June, July.

Genus 8. **MOLLUGO**, L. Indian Chickweed.

1. **M. verticillata**, L. Carpet Weed.
Dry sandy places, common. June, Sept.

ORDER 15. **PORTULACACÆ**. Purslane Family.

Genus 1. **PORTULACA**, Tourn. Purslane.

1. **P. oleracea**, L. Common Purslane. Hog Parsley.
In cultivated grounds, too common. May, Aug. Nat.
from Eu.
2. **P. grandiflora**, Hook. Flowering Moss. Flowering Purslane.
Escaped from flower gardens to streets, &c. June, Oct.
Adv. from S. A.

Genus 2. **CLAYTONIA**, L. Spring Beauty.

1. **C. Virginica**, L. May or Turkey Pea.
Woods and fields, abundant. April, May. Variable in
color of flower and width of leaf.

ORDER 16. **MALOACEÆ**. Mallow Family.

Genus 1. **MALOA**, L. Mallow.

1. **M. rotundifolia**, L. Common Mallow.
Idle places about dwellings, common. June, Oct. Nat.
from Eu.
2. **M. sylvestris**, L. High Mallow.
About dwellings and roadsides, common. July, Sept. Nat.
from Eu.

Genus 2. **SIDA**. L.

1. **S. spinosa**, L.
Fields and idle grounds, abundant. May, Aug. Nat. from
Trop. Amer.

Genus 3. **ABUTILON**, Tourn. Indian Mallow.

1. **A. Avicennæ**, Gært. Velvet Leaf. Butter Mark.
Waste places, common. July, Sept. Nat. from India.

Genus 4. **HIBISCUS**, L. Rose Mallow.

1. **H. grandiflorus**, Michx. Prairie Hollyhock.
Moist prairies, common. Aug., Sept.
2. **H. militaris**, Cav. Halberd-leaved Rose Mallow.
Banks of streams, not rare. June, Aug.
3. **H. Trionum**, L. Bladder Ketmia. Flower-of-an-hour.
Escaped from flower gardens. May, Sept. Adv. from Eu.

ORDER 17. **TILIACEÆ.** Linden Family.Genus 1. **TILIA**, L. Linden. Basswood.

1. **T. Americana**, L. Basswood. Lin-Tree. Whittle-wood.
Gravelly soil, common.
2. **T. heterophylla**, Vent. White Basswood.
Have seen one tree near the mouth of White river.

ORDER 18. **LINACEÆ.** Flax Family.Genus 1. **LINUM**, L. Flax.

1. **L. Virginianum**, L.
Clayey grounds, common. June, Aug.
2. **L. usitatissimum**, L. Common Flax.
Escaped from cultivation. rare. Nativity not certainly known.

ORDER 19. **GERANIACEÆ.** Geranium Family.Genus 1. **GERANIUM**, L. Cranesbill.

1. **G. maculatum**, L. Spotted Geranium. Wild Cranesbill.
Woods and about fields, common. April, July.
2. **G. Carolinianum**, L. Carolina Cranesbill.

Genus 2. **ERODIUM**, L'Her. Stork's-Bill.

1. **E. cicutarium**, L'Her.
Escaped from gardens, very rare. Adv. from Eu.

Genus 3. **IMPATIENS**, L. Balsam. Jewel-weed.

1. **I. pallida**, Nutt. Pale Touch-me-not.
Moist shaded places, common. June, Sept.
2. **I. fulva**, Nutt. Spotted Touch-me-not.
Moist rich soil, abundant. June, Sept. This and **I. pallida**
are often found growing in the same patch.

Genus 4. **OXALIS**, L. Wood-Sorrel.

1. **O. violacea**, L. Violet Wood-Sorrel.
Open woods and fields, common. April, June.
2. **O. stricta**, L. Yellow Wood-Sorrel.
Rich soil and fence-rows, common. April, Sept.

ORDER 20. **RUTACEÆ.** Rue Family.Genus 1. **ZANTHOXYLUM**, Colden. Prickly Ash.

1. **Z. Americanum**, Mill. Northern Prickly Ash.
Low rich woods, rapidly becoming rare.

Genus 2. **PTELEA**, L. Shrubby Trefoil.

1. **P. trifoliata**, L. Hop-Tree. Wing-Seed. Wafer-Ash.
Shaded sandy river banks, not rare. May.

ORDER 21. **ANACARDIACEÆ**, Cashew Family.Genus 1. **RHUS**, L. Sumach.

1. **R. typhina**, L. Staghorn Sumach.
Sandy hillsides, rare.
2. **R. glabra**, L. Smooth Sumach.
Barren Sandy soil, common. May, June.
3. **R. Toxicodendron**, L. Poison Oak. Poison Ivy. Poison Vine.
Common. Varies from a vine that ascends trees to the height of 150 feet, to a small bush 3-6 feet high.

ORDER 22. **VITACEÆ**. Vine Family.Genus 1. **VITIS**, Tourn. Grape.

1. **V. Labrusca**, L. Northern Fox-Grape.
Upland woods, rare. May. Usually but wrongly called Summer Grape.
2. **V. æstivalis**, Michx. Summer Grape.
Thickets in rich grounds, common. April, May.
3. **V. cordifolia**, Michx. Winter or Frost Grape.
Bottom lands, common. May.
4. **V. riparia**, Michx.
River bottoms, not rare. April, May.
5. **V. indivisi**, Willd.
Moist woods and thickets, frequent. May, June.

• Genus 2. **AMPELOPSIS**, Michx. Virginia Creeper.

2. **A. quinquefolia**, Michx. Five-Leaves. False-Grape. Wild Wood-vine. American Ivy. Woodbine, and erroneously Poison Vine.
Rich woods and fields, abundant. June, July.

ORDER 23. **RHAMNACEÆ**. Buckthorn Family.Genus 1. **CEANOTHUS**, L. New Jersey Tea. Red-Root.

1. **C. Americanus**, L. New Jersey Tea. Wild Snow-Ball.
Dry sandy hillsides, not common. June, July.

ORDER 24. **CELASTRACEÆ**. Staff-Tree Family.Genus 1. **CELASTRUS**, L. Staff-Tree. Shrubby Bitter-Sweet.

1. **C. scandens**. Wax-Work. Climbing Bitter-Sweet.
Rich woods, not rare.

Genus 2. **EUONYMUS**, Tourn. Spindle Tree.

1. **E. atropurpureus**, Jacq. Burning Bush. Waahoo. Indian Arrow-Wood.
Rich alluvial soil, common. May, June.
2. **E. Americanus**, L. Strawberry Bush.
River banks, rare.

ORDER 25. **SAPINDACEÆ**. Soapberry Family.Genus 1. **STAPHYLEA**, L. Bladder Nut.

- 1.
- S. trifolia**
- , L. American Bladder Nut.

Near the borders of Small streams, scarce. May.

Genus 2. **ÆSCULUS**, L. Horse Chestnut. Buckeye.

- 1.
- Æ. glabra**
- , Willd, Fetid or Ohio Buckeye.

River bottoms, rare. April, May.

Genus 3. **ACER**, Tourn. Maple.

- 1.
- A. saccharinum**
- , Wang. Sugar or Rock Maple.

Upland woods and hillsides, common. March, April.

- 2.
- A. dasycarpum**
- , Ehrhart. White or Silver Maple.

Banks of streams, rare. March, April.

- 3.
- A. rubrum**
- , L. Red or Swamp Maple.

Low wet places, common. Feb., March.

Genus 4. **NEGUNDO**, Mœnch. Ash-leaved Maple.

- 1.
- N. aceroides**
- , Mœnch. Box Elder.

Moist banks, not common. March, April.

Genus 5. **CARDIOSPERMUM**, L. Heart Seed.

- 1.
- C. Haliacabum**
- , L. Balloon Vine.

Escaped from gardens. Adv. from Missouri, &c.

ORDER 26. **POLYGALACEÆ**. MILKWORT FAMILY.Genus 1. **POLYGALA**, Tourn. Milkwort.

- 1.
- P. sanguinea**
- , L.

Gravelly or clayey soil, rare. July, Oct.

- 2.
- P. ambigua**
- , Nutt.

Dry prairies, rare. July, Sept,

- 3.
- P. Senega**
- , L. Seneca Snakeroot.

Rocky soil, rare. April, June.

ORDER 27. **LEGUMINOSÆ**. PULSE FAMILY.Genus 1. **OROTALARIA**, L. Rattle-Box.

- 1.
- C. sagittalis**
- , L.

Sterile prairie soil, rare. July, Aug.

Genus 2. **TRIFOLIUM**, L. Clover. Tre-foil.

- 1.
- T. pratense**
- , L. Red Clover.

About fields and open woods, common. May, Dec. Nat. from Eu.

- 2.
- T. reflexum**
- , L. Buffalo Clover.

Sandy grounds, rare. May.

- 3.
- T. repens**
- , L. White Clover.

Fields, copses and pastures, too common. April, Sept.

Genus 3. **MELILOTUS**, Tourn. Melilot. Sweet Clover.

1. **M. alba**, Lam. White Melilot.

Escaped from gardens. July, Sept. Adv. from Eu.

Genus 4. **PSORALEA**, L.

1. **P. Onobrychis**. Nutt.

Thickets and fence rows. June, Aug.

Genus 5. **PETALOSTEMON**, Michx. Prairie Clover.

1. **P. violacens**, Michx.

Dry places and prairies, rare.

Genus 6. **AMORPHA**, L. False Indigo.

1. **A. fruticosa**, L. False Indigo.

Wet places, common. May, June. Leaves exhale when bruised, a strong unpleasant odor.

Genus 7. **ROBINIA**, L. Locust Tree.

1. **R. Pseudacacia**, Black Locust. Common Locust or False Acacia.

Escaped to improved grounds and borders of woods. May. Nat. from E. U. S.

Genus 8. **WISTARIA**, Nutt.

1. **W. frutescens**, D. C. Wild Wistaria.

Alluvial sandy soil, rare.

Genus 9. **ASTRAGALUS**, L. Milk Vetch.

1. **A. Canadensis**, L.

Banks of streams, common. July, Aug.

Genus 10. **DESMODIUM**, D. C. Tick Trefoil.

1. **D. nudiflorum**, D. C.

Dry woods, not common. July, Aug.

2. **D. acuminatum**, D. C.

Woods and fields, common. July, Aug.

3. **D. pauciflorum**, D. C.

Open woods, rare. June, Aug.

4. **D. cuspidatum**, Torr. & Gray.

Dry clayey grounds, rare. Aug., Sept.

5. **D. Dillenii**, Darlingt.

Prairies and open woods, not rare. July, Aug.

6. **D. paniculatum**, D. C.

Copses, rare.

7. **D. sessilifolium**, Torr. & Gray.

Clayey soil, not rare. July, Sept.

8. **D. rigidum**, D. C.

Dry open woods, common.

9. **D. ciliare**, D. C.

Dry hillsides, rare.

10. **D. Marilandicum**, Boott.

Open hilly woods, rare.

Genus 11. **LESPEDeza**, Mich. Bush Clover.

1. **L. violacea**, Pers. var. **angustifolia**, Gray.
Dry open soil, not common. July, Sept.
2. **L. hirta**, Ell.
Dry clayey soil, common.
3. **L. capitata**, Michx.
Dry soil, not rare.

Genus 12. **STYLOSANTHES**. Swartz. Pencil Flower.

1. **S. elatior**, Swartz.
Dry soil, rare. July, Nov.

Genus 13. **LATHYRUS**, L. Netchling. Everlasting Pea.

1. **L. palustris**, L. Marsh Vetchling.
Wet thickets, rare.

Genus 14. **APIOS**, Boerhaave. Wild Bean.

1. **A. tuberosa**, Mönch. Ground Nut.
Miry places and thickets, common. July, Sept.

Genus 15. **PHASEOLUS**, L. Kidney Bean.

1. **P. perennis**, Walt. Wild Bean.
Woods, common. June, Aug.
2. **P. diversifolius**, Pers.
Clayey or sandy open prairies, rare. Aug., Sept.
3. **P. helvolus**, L.
Dry clayey soil and prairies, common. July, Sept.
4. **P. pauciflorus**, Benth.
Banks of streams, rare.

Genus 16. **AMPHICARPÆA**, Ell. Hog Peanut.

1. **A. monoica**, Nutt.
Rich woodlands, common. July, Sept.

Genus 17. **BAPTISIA**, Vent. False Indigo.

1. **B. leucantha**, Torr. and Gray.
Moist prairies, common. June, Sept.

Genus 18. **CERCIS**, L. Judas Tree.

1. **C. Canadensis**, L. Red-Bud Tree.
In moist localities, but not abundant. March, May.

Genus 19. **CASSIA**, L. Senna.

1. **C. Marilandica**, L. Wild Senna.
Moist rich grounds, common. June, Sept.
2. **C. Chamæcrista**, L. Partridge Pea.
Clayey soil, common. July, Aug.
3. **C. nictitans**, L. Wild Sensitive-Plant.
Sterile places, not common. Aug., Sept.

Genus 20. **GYMNOCLADUS**, Lam. Kentucky Coffee-tree.

1. **G. Canadensis**, Lam. Coffee-tree.
River bottoms, not common.

Genus 21. **GLEDITSCHIA**, L. Honey Locust.

1. **G. triacanthos**, L. Three-thorned Acacia. Honey Locust.
Rich grounds, not abundant.
2. **G. monosperma**, Walt. Water Locust.
Cypress swamps, not common.

ORDER 28. **ROSACEÆ**. Rose Family.

Genus 1. **PRUNUS**, Tourn. Plum. Cherry.

1. **P. Americana**, Marshall. Wild Yellow or Red Plum.
Scattered through the woods, but nowhere abundant. Apr.
2. **P. serotina**, Ehrhart. Wild Black Cherry. Wild Cherry.
Woods, not abundant, and rapidly becoming rare. May.

Genus 2. **SPIRÆA**, L. Meadow-Sweet.

1. **S. opulifolia**, L. Nine Barks.
Rocky bluffs, rare.
2. **S. salicifolia**, L. Common Meadow-Sweet.
Wet grounds, very rare except in cultivation. May, Oct.
3. **S. aruncus**, L. Goat's Beard.
Steep shaded banks, not rare. July, Sept.

Genus 3. **GILLENIA**, Mœnch. Indian Physic.

1. **G. trifoliata**, Mœnch. Bowman's Root.
Woods, rare. June, July.

Genus 4. **AGRIMONIA**, Tourn.

1. **A. Eupatoria**, L. Common Agrimony.
Open woods, common. July, Sept.
2. **A. parviflora**, Ait. Small-flowered Agrimony.
Rich grounds, not rare. Aug.

Genus 5. **GEUM**, L. Avens.

1. **G. Virginicum**, L.
Low grounds, common. May, Aug.
2. **G. vernum**, Torr. and Gray.
Borders of woods and glades, not common. March, June.

Genus 6. **POTENTILLA**, L. Cinque-foil. Five-finger.

1. **P. Canadensis**, L. Common Cinque-foil, or Five-finger.
About fields and open woods, abundant. April, July.

Genus 7. **FRAGARIA**, Tourn. Strawberry.

1. **F. Virginiana**, var. *Illinoensis*, Gray. Wild Strawberry.
Rich sandy grounds, not rare. April, May.

Genus 8. **RUBUS**, Tourn. Bramble.

1. **R. strigosus**, Michx. Wild Red Raspberry.
Thickets, rare.
2. **R. occidentalis**, L. Black Raspberry. Thimbleberry.
Thickets and fence rows, common. May.
3. **R. villosus**, Ait. Common or High Blackberry.
Fence rows and thickets, too abundant. May, June.
4. **R. villosus** var. **humifusus**, Gray. Trailing Blackberry.
Along fence rows and in fields, not rare.
5. **R. Canadensis**, L. Low Blackberry. Dewberry.
Fields and woods, common. April, May.

Genus 9. **ROSA**, Tourn. Rose.

1. **R. setigera**, Michx. Climbing or Prairie Rose.
Thickets and prairies, common. June, Aug. Not fragrant.
2. **R. Carolina**, L. Swamp Rose.
Low wet grounds, common. May, Sept. Very fragrant.
2. **R. lucida**, Ehrhart. Dwarf Wild Rose.
Dry sandy soil, rare. May, Sept.
4. **R. rubiginosa**, L. Sweet Briar.
Escaped from cultivation. Nat. from Eu.

Genus 10. **CRATÆGUS**, L. Hawthorn. White Thorn.

1. **C. coccinea**, L. Scarlet-fruited Thorn.
Open upland woods, not rare. April, May.
2. **C. tomentosa**, L. Black or Pea Thorn.
Thickets, rare. March, April.
3. **C. tomentosa** var. **punctata**, Gray.
Rich alluvial soil, common. March, May.
4. **C. tomentosa**, var. **mollis**, Gray.
Moist woods, rare. April, May.
5. **C. Crus-galli**, L. Cockspur Thorn.
Low moist thickets, common. March, May.

Genus 11. **PYBUS**, L. Pear, Apple.

1. **P. coronaria**, L. American Crab-Apple.
Open woods and glades, not rare. April, May.
2. **P. angustifolia**, Ait. Narrow-leaved Crab-Apple.
Rich woods, April, May. Tree usually taller than **P. coronaria**.

ORDER 29. **SAXIFRAGA** **JEÆ**. SAXIFRAGE FAMILY.Genus 1. **HYDRANGÆA**, Gronov.

1. **H. arborescens**, L. Wild Hydrangea. Seven Barks.
Steep bluffs, not abundant. June, Sept.

Genus 2. **HEUCHERA**, L. Alum Root.

1. **H. Americana**, L. Common Alum Root.
Sandy soil and gravelly bluffs, not rare. May, Aug.

ORDER 30. **CRASSULACEÆ.** ORPINE FAMILY.Genus 1. **PENTHORUM**, Gronov. Ditch Stone-Crop.

- 1.
- P. sedoides**
- , L.

Wet places, common. June, Oct.

Genus 2. **SEDUM**, Tourn. Stone-Crop. Orpine.

- 1.
- S. acre**
- , L. Mossy Stone-Crop.

Sparingly escaped from gardens. Adv. from Eu.

- 2.
- S. ternatum**
- , Michx.

Rocky bluffs, rare. May, July.

ORDER 31. **HAMAMELACEÆ.** WITCH-HAZEL FAMILY.Genus 1. **LIQUIDAMBAR**, L. Sweet Gum Tree.

- 1.
- L. styraciflua**
- , L. Sweet gum. Bilsted.

Bottom lands and alluvial soil, common. May.

ORDER 32. **HALORAGEÆ.** WATER-MILFOIL FAMILY.Genus 1. **MYRIOPHYLLUM**, Vaill. Water Milfoil.

- 1.
- M. ambiguum**
- , var.
- capillaceum*
- , Gray.

Ponds, not rare.

Genus 2. **PROSERPINACEA**, L. Mermaid Weed.

- 1.
- P. palustris**
- , L.

Moist bottom lands, not rare. Aug., Oct.

Genus 3. **HIPPURIS**, L. Mare's Tail.

- 1.
- H. vulgaris**
- , L.

Pond and streams, rare.

ORDER 33. **ONAGRACEÆ.** EVENING PRIMROSE
FAMILY.Genus 1. **CIRCÆA**, Tourn. Enchanter's Nightshade.

- 1.
- C. Luteana**
- , L.

Rich shaded woods, common. July, Aug.

Genus 2. **GAURA**, L.

- 1.
- G. biennis**
- , L.

Prairies and fields, common. Aug., Sept.

Genus 3. **EPILOBIUM**, L. Willow-Herb.

- 1.
- E. coloratum**
- , Muhl.

Wet places, rare. July, Sept.

G. R.—34

Genus 4. **CENOTHERA**, L. Evening Primrose.

1. **Ce. biennis**, L. Common Evening Primrose.
Fields and borders of woods, abundant. June, Sept.
2. **Ce. biennis**, var. **muricata**, Gray.
About fields, &c., common.
3. **Ce. fruticosa**, L. Sundrops.
Low rich grounds, not common. July, Aug.

Genus 5. **LUDWIGIA**, L. False Loosestrife.

1. **L. alternifolia**, L. Seed-box.
Wet places, common. July, Sept.
2. **L. polycarpa**, Short & Peter.
Moist places, common. July, Oct.
3. **L. palustris**, Ell. Water Purslane.
Muddy and wet places, not common. July, Sept.

ORDER 34. **LYTHRACEÆ**. LOOSESTRIFE FAMILY.

Genus 1. **AMMANNIA**, Houston.

1. **A. latifolia**, L.
Borders of stagnant water, not rare. Aug., Nov.

Genus 2. **LYTHRUM**, L. Loosestrife.

1. **L. alatum**, Pursh.
Wet places in fields and prairies. June, Sept.

Genus 3. **NESÆA**, Commerson, Juss.

1. **N. verticillata**, H. B. K. Swamp Loosestrife.
Swampy places, rare. July, Sept.

Genus 4. **CUPHEA**, Jacq.

1. **C. viscosissima**, Jacq. Clammy Cuphea.
Roadsides and dry open grounds, abundant. June, Sept.

ORDER 35. **CACTACEÆ**. CACTUS FAMILY.

Genus 1. **OPUNTIA**, Tourn.

1. **O. vulgaris**, Mill. Prickley Pear.
Escaped from cultivation to old stumps and rocky places.
June, Aug. Adv. from Eastern and Southern U. S.
2. **O. Rafinesquii**, Engelm. Indian or Prairie Fig.
Once common on our prairies, but very seldom found now,
May, Aug.

ORDER 36. **PASSIFLORACEÆ.** PASSION-FLOWER
FAMILY.

Genus 1. **PASSIFLORA**, L. Passion Flower.

1. **P. lutea**, L. Wild Passion Flower.
Thickets and fence rows, rare. July, Sept.
2. **P. incarnata**, L. Garden Passion Flower. Maypops.
Escaped from cultivation. May, Aug. Adv. from the
S. W. S.

ORDER 37. **CUCURBITACEÆ.** GOURD FAMILY.

Genus 1. **SICYOS**, L. One-seeded Star Cucumber.

1. **S. angulatus**, L.,
Alluvial soil and river bottoms, common. July, Sept.

Genus 2. **ECHINOCYSTIS**, Torr. & Gray. Water Balsam Apple.

1. **E. lobata**, Torr. & Gray. Climbing Thorn Apple.
River banks, rare. July, Sept.

ORDER 38. **UMBELLIFERÆ.** PARSLEY FAMILY.

Genus 1. **SANICULA**, Tourn. Sanicle. Black Snakeroot.

1. **S. Marilandica**, L.
Rich grounds, not abundant. May.

Genus 2. **ERYNGIUM**, Tourn. Eryngo.

1. **E. Yuccæfolium**, Michx. Rattlesnake Master. Button Snake-
root.
Dry open grounds and prairies, not rare. July, Sept.

Genus 3. **DAUCUS**, Tourn, Carrot.

1. **D. carota**, L. Common Carrot.
Escaped from gardens. July, Sept. Adv. from Eu.

Genus 4. **PASTINACA**, Tourn. Parsnip.

1. **P. sativa**, D. Common Parsnip.
Escaped from gardens to fields. June, July. Adv. from Eu.

Genus 5. **ARCHEMORA**, D. C. Cowbane.

1. **A. rigida**, D. C. Water Cowbane.
Miry wet places, rare. July, Aug.

Genus 6. **THASPIUM**, Nutt. Meadow Parsnip.

1. **T. aureum**, Nutt. Golden Meadow Parsnip.
Rich grounds, common. May, June.
2. **T. trifoliatum**, Gray.
Moist shaded woods, rare. May, June.

Genus 7. **ZIZIA**, D. C.

1. **Z. integerrima**, D. C.
Hilly woods, not common. May, June.

Genus 8. **CICUTA**, L. Water Hemlock.

1. **C. maculata**, L. Spotted Cowbane. Musquash Root. Beaver Poison.
Low wet places, abundant. June, Sept.

Genus 9. **SIUM**, L. Water Parsnip.

1. **S. lineare**, Michx.
Wet places, common. July, Sept.

Genus 10. **CRYPTOTÆNIA**, D. C. Honewort.

1. **C. Canadensis**, D. C.
Sandy grounds and thickets, not rare. June, Sept.

Genus 11. **CHÆROPHYLLUM**, L. Chervil.

1. **C. procumbens**, Lam.
Moist rich woods, not scarce. April, May.

Genus 12. **OSMORRHIZA**, Raf. Sweet Cicely.

1. **O. longistylis**, D. C. Smoother Sweet Cicely.
Rich woods, rare.
2. **O. brevistylis**, D. C. Hairy Sweet Cicely.
Damp thickets, scarce.

Genus 13. **CONIUM**, L. Poison Hemlock.

1. **C. maculatum**, L. Poison Parsley.
Fields, rare. July, Aug. Nat. from Eu.

Genus 14. **EULOPHUS**, Nutt.

1. **E. Americana**, Nutt.
Prairies, rare. June, July.

Genus 15. **ERIGENIA**, Nutt. Harbinger of Spring.

1. **E. bulbosa**, Tourn. Pepper-and-Salt. Daughter of the Early Spring.
Hillsides, not common. March, April.

ORDER 39. **ARALIACEÆ**. GINSENG FAMILY.Genus 1. **ARALIA**, Tourn. Ginseng. Wild Sarsaparilla.

1. **A. racemosa**, L. Spikenard. Pettymorrel.
Rich rocky woods, rare. June.
2. **A. nudicaulis**, L. Wild Sarsaparilla. Small Spikenard.
Rocky woods and bluffs, rare. May, June.
3. **A. quinquefolia**, Gray. Ginseng.
Rich hilly woods, once common, but now rarely seen. June
July.

ORDER 40. **CORNACEÆ.** DOGWOOD FAMILY.Genus 1. **CORNUS**, Tourn. Cornel Dogwood.

1. **C. florida**, L. Flowering Dogwood. Flowering Cornel. Box-wood.
Woods in most localities, but nowhere abundant. April, May.
2. **C. ceircea**, L. Silky Cornel. Kinnikinnik. Rose Willow, Red Osier. Red Willow.
Low banks, rare.
3. **C. paniculata**, L'Her. Panicked Cornel. Swamp Dogwood.
Low wet thickets, common. April, May.

Genus 2. **NYSSA**, L. Tupelo. Pepperidge. Sour Gum-Tree.

1. **N. multiflora**, Wang. Black Gum.
Hilly woods and river bottoms, not abundant.

ORDER 41. **CAPRIFOLIACEÆ.** HONEYSUCKLE FAMILY.Genus 1. **SYMPHORICARPUS**, Dill. Snowberry.

1. **S racemosus**, Michx. Snowberry.
Escaped from cultivation to fence-rows. Nat. from N. U. S.
2. **S. vulgaris**, Michx. Indian Currant. Coral-Berry. Buck-Berry Bush.
Sandy ridges in river bottoms. Common. May, June.

Genus 2. **SAMBUCUS**, Tourn. Elder.

1. **S. Canadensis**, L. Common Elder.
Fence-rows and thickets, common. May, June.

Genus 3. **VIBURNUM**, L. Arrow-wood. Laurestinus.

1. **V. Lentago**. Sweet Viburnum. Sheep-Berry.
Dry open woods, scarce.
2. **V prunifolium**, L. Black Haw.
Near streams and river bottoms, not rare. April, May.
3. **V. dentatum**, L. Arrow-Wood.
I have seen but one tree. May, June.

ORDER 42. **RUBIACEÆ.** Madder Family.Genus 1. **GALIUM**, L. Bedstraw. Cleavers,

1. **G. Aparine**, L. Cleavers. Goose-Grass. Catch-Grass.
Fields and thickets, not abundant. May, June.
2. **G. trifidum**, L. Small Bedstraw.
Low damp woods, common.
3. **G. trifidum**, var. **tinctorum**, Gray.
Wet places, rare. July, Aug.
4. **G circæzans**, Michx. Wild Liquorice.
Rich shaded woods, common. June, Oct.

Genus 2. **SPERMACOCE**, L. Button-Weed.

1. **S. glabra**, Michx.
Rich woods, rare. July, Aug.

Genus 3. **DIODIA**, L. Button-Weed.

1. **D. teres**, Walt.
Clayey soil in roads and fields, common. July, Sept.

Genus 4. **CEPHALANTHUS**, L. Button-Bush.

1. **C. occidentalis**, L. Pond Dogwood. Globe Flower.
About ponds, common. June, Sept.

Genus 5. **HOUSTONIA**, L.

1. **H. purpurea**, L. Purple Houstonia.
Open woods, common. May, Aug.

ORDER 43. **VALERIANACEÆ**. VALERIAN FAMILY.

Genus 1. **VALERIANA**, Tourn. Valarian.

1. **V. pauciflora**, Michx.
River bottoms, rare. May, June,

ORDER 44. **DIPSACEÆ**. TEASEL FAMILY.

Genus 1. **DIPSACUS**, Tourn. Teasel.

1. **D. sylvestris**, Mill. Wild Teasel.
Borders of fields, rare. June, July. Nat. from Eu.

ORDER 45. **COMPOSITÆ**. COMPOSITE FAMILY.

Genus 1. **VERNONIA**, Schreb. Iron-Weed.

1. **V. noveboracensis**, Willd.
Moist open places, common. July, Sept.
2. **V. fasciculata**, Michx. Common Iron-Weed.
Abundant. Aug, Sept.

Genus 2. **ELEPHANTOPUS**, L. Elephant's Foot.

1. **E. Carolinianus**, Willd.
Dry rich soil and glades, common. July, Aug.

Genus 3. **LIATRIS**, Schreb. Button Snakeroot. Blazing Star.

1. **L. squarrosa**, Willd. Blazing Star.
Dry soil, rare.
2. **L. cylindracea**, Michx.
Dry prairies, rare. Aug., Sept.
3. **L. scariosa**, Willd. Gay Feather.
Dry rocky soil, not common. Aug., Oct.
4. **L. pycnostachya**, Michx. Prairie Gay Feather.
Moist prairies, rare. July, Sept.

Genus 4. **EUPATORIUM**, Tourn. Thoroughwort. Boneset.

1. **E. purpureum**, L. Joe-Pie Weed. Trumpet Weed, Queen-of-the-Meadow.
Rich low grounds, common. July, Sept.
2. **E. sessilifolium**, L. Upland Boneset.
Moist grounds, common. July, Sept.
3. **E. perfoliatum**, L. Thoroughwort. Boneset.
Low moist grounds, common. Aug., Oct.
4. **E. serotinum**, Michx.
Moist grounds and alluvial soil, common. Aug., Sept.
5. **E. ageratoides**, L. White Snake Root.
Rich hilly woods and open places, abundant. July, Oct.
Always pubescent instead of smooth as stated in the text books. It also possesses a pleasant pungent scent.

Genus 5. **MIKANIA**, Willd. Climbing Hemp Weed.

1. **M. scandens**, L.
Sandy thickets along streams, rare.

Genus 6. **CONOCLINIUM**, D. C.

1. **C. celestinum**, D. C. Mist Flower.
Open rich woods, Abundant. July, Oct.

Genus 7. **ASTER**, L. Asterwort.

1. **A. patens**, Sit.
Dry grounds, not common. Aug., Oct.
2. **A. azureus**, Lindl.
Open woods, not abundant. Aug., Oct.
3. **A. undulatus**, L.
Dry copses, abundant. Aug, Oct.
4. **A. cordifolius**, L.
Upland woods, abundant. Aug., Nov.
5. **A. sagittifolius**, Willd.
Dry soil, common. Aug., Oct.
6. **A. dumosus**, L.
Woods, rare. Sept., Oct.
7. **A. miser**, L., Ait. Starved Aster.
Dry clayey soil, common. Aug., Oct.
8. **A. tenuifolius**, L.
Rich soil, not common. Sept., Oct.
9. **A. carneus**, Nees.
Moist soil, common. Sept.
10. **A. puniceus**, L. Red-Stalked Aster.
Moist rich grounds, not abundant.
11. **A. oblongifolius**, Nutt.
Rich grounds, scarce.
12. **A. Novæ-Angliæ**, L. New England Aster.
Wet rich grounds, common. Aug., Nov.

Genus 8. **ERIGERON**, L. Fleabane.

1. **E. Canadense**, L. House Weed. Butter Weed.
Old fields, common. July, Oct.
2. **A. divaricatum**, Michx.
Dry sterile soil, not abundant. July, Sept
3. **E. bellidifolium**, Muhl.
Borders of fields, thickets and streams, common. April,
May.
4. **E. Philadelphicum**, L. Common Fleabane.
Moist ground, common. June, July.
5. **E. annuum**, Pers. Daisy Fleabane. Sweet Scabious.
Fence rows and meadows, common. May, Aug.
6. **E. strigosum**, Muhl. Daisy Fleabane.
Fields and open woods, common.

Genus 9. **BOLTONIA**. L'Her.

1. **B. glastifolia**, L'Her.
Moist rich soil, not common. Aug., Sept.

Genus 10. **SOLIDAGO**, L. Golden Rod.

1. **S. cæsia**, L.
Rich woods, frequent. Aug., Nov.
2. **S. rigida**, L. Rigid Golden-Rod.
Moist prairies, rare. Aug., Oct.
3. **S. patula**, Muhl.
Wet places, rare.
4. **S. altissima**, L.
Old fields, very common and variable. Aug., Sept.
5. **S. ulmifolia**, Muhl.
Moist fields and prairies. July, Sept.
6. **S. odora**, Ait. Sweet Golden-Rod.
Sandy soil, scarce. July, Sept.
7. **S. nemoralis**, Ait.
Moist prairies, with **S. rigida**, L, rare. Aug., Oct.
8. **S. Missouriensis**, Nutt.
Dry sandy, but shady places, rare. Oct., Nov.
9. **S. Canadensis**, L. Colt's Tail.
Very abundant and exceedingly variable.
10. **S. lanceolata**, L.
Moist fields and glades, not rare. Aug., Sept.

Genus 11. **INULA**, L. Elecampane.

1. **I. Helenium**, L. Common Elecampane.
Roadsides and woods, not rare. June, Sept. Nat. from Eu.

Genus 12. **PLUCHEA**, Cass. Marsh Fleabane.

1. **P. foetida**, D. C.
Rich clearings and moist glades, common. Aug. Sept.

Genus 13. **POLYMNIA**, L. Leaf-Cup.

1. **P. Uvedalia**, L.
Moist ravines and miry places, rare. Aug., Sept.

Genus 14. **SILPHIUM**, L. Rosin Plant.

1. **S. laciniatum**, L. Rosin Weed. Compass Plant.
Prairies and wet grounds, rare. June, Aug.
2. **S. terebinthinaceum**, L. Prairie Dock.
Fields and prairies, becoming rare. July, Sept.
3. **S. integrifolium**, Michx.
Fence rows and prairies, common. July, Sept.
4. **S. perfoliatum**, L. Cup Plant. Compass Plant.
Wet places along small streams. July, Aug.

Genus 15. **PARTHENIUM**, L.

1. **P. integrifolium**, L.
Clayey soil and moist prairies, not rare. June, Aug.

Genus 16. **AMBROSIA**, Tourn. Ragweed.

1. **A. bidentata**, Michx.
Dry prairies, common. July, Sept.
2. **A. trifida**, L. Great Ragweed. Horse-weed. Bitter-weed.
Rich river banks and fields, abundant and luxuriant. July,
Sept.
3. **A. trifida**, var. **integrifolia**, Gray.
Rich upland soil, rare.
4. **A. artemisiæfolia**, L. Roman Wormwood. Hog Weed.
Bitter Weed. Rag Weed.
Fields and woods, very abundant. Aug., Sept.
5. **A. psilostachya**, D. C.
Dry prairies and roadsides, common. Sept., Oct.

Genus 17. **XANTHIUM**, Tourn. Cocklebur. Clotbur.

1. **X. strumarium**, L. Common Cocklebur.
New rich fields and woods, common.

Genus 18. **ECLIPTA**, L.

1. **E. procumbens**, Michx.
Low moist banks, common. May, Oct. Exceedingly
variable.
2. **E. procumbens**, var. **brachypoda**, Gray.
Wet places, not rare.

Genus 19. **HELIOPSIS**, Pers. Ox-Eye.

1. **H. lævis**, Pers.
Prairies and fields, rare. July, Aug.
2. **H. lævis**, var. **scabra**, Gray.
Fence-rows and prairies, common. July, Sept.

Genus 20. **ECHINACEA**, Moench. Purple Cone-Flower.

1. **E. purpurea**, Moench. Cone-Flower. Red Sun-Flower.
Black Sampson.
Prairies and thickets, rare. June, July.

Genus 21. **RUDBECKIA**, L. Cone-Flower.

1. **R. laciniata**, L. Cone-disk Sun-Flower. Tall Cone-Flower.
Thimble-Weed. Negro's Heel.
Fields and thickets, abundant. June, Aug.
2. **R. subtomentosa**, Pursh. Negro's Navel.
Prairies and fence-rows, common. Aug., Sept.
3. **R. triloba**, L.
Prairies and fields, common. July, Aug.
4. **R. hirta**, L.
About geds, &c., abundant. June, Aug.

Genus 22. **HELIANTHUS**, L. Sunflower.

1. **H. annuus**, L. Common Sunflower.
Escaped from cultivation, July, Aug. Adv. from Trop. A.
2. **H. lætiflorus**, Pers.
Dry prairies, scarce. Sept.
3. **H. mollis**, Lam.
Prairies and fields, common. July, Sept. Often taken by
mistake for *Silphium integrifolium*, Michx.
4. **H. microcephalus**, Torr. & Gray.
Woods and thickets, rare.
5. **H. giganteus**, L.
Moist places, common. Sept.
6. **H. grosse-serratus**, Martens.
Moist prairies, not rare. Aug., Sept.
7. **H. hirsutus**, Raf.
Prairies and fence-rows, not scarce.
8. **H. trachelifolius**, Willd.
Copses, rare. Aug, Sept.
9. **H. decapetalus**, L.
Open woods, fields and prairies, common.
10. **H. decapetalus**, var. *frondosus*, Gray.
Rich grounds, common. Aug., Sept.
11. **H. doronicoides**, Lam.
Woods and fields, not common.
12. **H. tuberosus**, L. Jerusalem Artichoke.
Fields and fence-rows, common. Nat. from S. A.

Genus 23. **ACTINOMERIS**, Nutt.

1. **A. squarrosa**, Nutt.
Rich grounds, not abundant. Aug., Sept.
2. **A. helianthoides**, Nutt.
Copses and fields, common. June, Aug.

Genus 24. **COREOPSIS**, L. Tickseed.

1. **C. tripteris**, L. Tall Coreopsis.
Borders of fields and prairies, not scarce. Aug., Sept.
2. **C. aristosa**, Michx. Prairie Spanish-Needles.
Prairies and stubble fields, very abundant. Aug., Sept.

Genus 25. **BIDENS**, L. Burr Marigold.

1. **B. frondosa**, L. Common Beggar-ticks.
Moist rich waste places, common. July, Oct.
2. **B. connata**, Muhl. Swamp Beggar-ticks.
Wet banks, common. Aug., Oct.
3. **B. chrysanthemoides**, Michx. Barge Burr Marigold.
Swampy and wet places, not common. July, Oct.
4. **B. bipinnata**, L. Spanish Needles.
New rich fields and woods, too common.

Genus 26. **HELENIUM**, L. Sneeze-Weed.

1. **H. autumnale**, L. Sneeze-Weed. Swamp or False Sun-Flower.
Moist thickets, not common. Aug., Oct. Always decidedly hairy.

Genus 27. **LEPTOPODA**, Nutt.

1. **L. brachypoda**, Torr. & Gray.
Dry rich soil, scarce. June, Aug.

Genus 28. **MARUTA**, Cass. May-Weed.

1. **M. cotula**, D. C. Common May-Weed. Dog Fennel.
Fields and roadsides, very abundant. May, Oct. Nat. from Eu.

Genus 29. **ACHILLEA**, L. Yarrow.

1. **A. millefolium**, L. Common Yarrow or Milfoil.
Rich shaded woods and ravines, common. May, Dec.

Genus 30. **LEUCANTHEMUM**, Tourn. Ox-Eye Daisy.

1. **L. Parthenium**, Godron. Feverfew.
Escaped from gardens. Adv. from Eu.

Genus 31. **TANACETUM**, L. Tansy.

1. **T. vulgare**, L. var. **crispum**. Common Tansy.
Escaped from gardens to roadsides. July, Sept. Adv. from Eu.

Genus 32. **ARTEMISIA**, L. Wormwood.

1. **A. biennis**, Willd. Biennial Wormwood.
Moist places, common. Aug., Sept.
2. **A. absinthium**, L. Common Wormwood.
Escaped from gardens to old fields. Adv. from Eu.

Genus 33. **GNAPHALIUM**, L. Cudweed.

1. **G. polycephalum**, Michx. Common Everlasting. Indian Posey. Old-Field Balsam.
Open woods and old fields, common. July, Aug.
2. **G. purpureum**, L. Purplish Cudweed.
Dry sterile soil, not common.

Genus 34. **ANTENNARIA**, Gaertn. Everlasting.

1. **A. margaritacea**, R. Brown. Pearly Everlasting.
Dry open woods, common. June, Aug.
2. **A. plantaginifolia**, Hook. Plantain-leaved Everlasting.
Dry open sandy hillsides, common. March, May.

Genus 35. **ERECOTHITES**, Raf. Fireweed.

1. **A. hieracifolia**, Raf. Common Fireweed.
New fields and clearings, abundant. July, Sept.

Genus 36. **CACALIA**, L. Indian Plantain.

1. **C. suaveolens**, L.
Rich woods, rare. Aug., Sept.
2. **C. atriplicifolia**, L. Pale Indian Plantain.
Rich woods and fields, not rare. July, Sept.

Genus 37. **SENECIO**, L. Groundsel

1. **S. aureus**, L. Golden Ragwort. Squaw-weed.
Sandy banks. May, June.

Genus 38. **CENTAUREA**, L. Star-Thistle. Bachelor's Button.

1. **C. Cyanus**, L. Bluebottle.
Escaped from gardens. June, July. Adv. from Eu.

Genus 39. **CIRSIUM**, Tourn. Common or Plumed Thistle.

1. **C. lanceolatum**, Scop. Common Thistle.
Fields and open pastures, common. July, Sept. Nat. from Eu.
2. **C. discolor**, Spreng.
Wet prairies, rare. Sept, Oct.
3. **C. altissimum**, Spreng.
Fields and glades, common. Aug., Sept.

Genus 40. **LAPPA**, Tourn. Burdock.

1. **L. officinalis**, Allioni. Common Burdock.
Fields and roadsides in rich grounds, common. June, Oct.
A noisome weed. Nat. from Eu.

Genus 41. **CYNTHIA**, Don.

1. **C. Virginica**, Don.
Moist shaded bluffs, rare. May, June.
2. **C. Dandelion**, D. C.
Moist grounds, rare. April, June.

Genus 42. **HIERACIUM**, Tour. Hawkweed.

1. **H. scabrum**, Michx. Rough Hawkweed.
Dry hilly open woods, rare. Aug., Sept.
2. **H. longipilum**, Torr. Long Bearded Hawkweed.
Prairies and open woods, common. Aug., Sept.
3. **H. Gronovii**, L. Hairy Hawkweed.
Dry clayey soil, not common. Aug., Sept.

Genus 43. **NABALUS**, Cass. Rattlesnake Root.

1. **N. altissimus**, Hook. Tall White Lettuce. Drop Flower.
Rich woods, rare. Aug., Oct.

Genus 44. **TARAXACUM**, Haller. Dandelion.

1. **T. Dens-leonis**, Desf. Common Dandelion.
Meadows and grassy places, very common. April, Nov.

Genus 45. **LACTUCA**, Tourn. Lettuce.

1. **L. Canadensis**, L. Wild Lettuce.
Borders of fields, common. July, Sept.
2. **L. integrifolia**, Torr. & Gray.
Fence rows and thickets, common. July, Sept.
3. **L. sanguinea**, Torr. and Gray.
Fields and thickets, less common than the last two. The last three species are often found growing in the same fence corner, but always distinct.

Genus 46. **MULGEDIUM**, Cass. False or Blue Lettuce.

1. **M. acuminatum**, D. C.
Thickets, not common. Aug., Sept.
2. **M. Floridanum**, D. C.
Rich grounds, rare. Aug., Sept.
3. **M. leucophæum**, D. C.
Loose shaded soil, rare.

ORDER 46. **LOBELIACEÆ**. LOBELIA FAMILY.Genus 1. **LOBELIA**, L.

1. **L. cardinalis**, L. Cardinal Flower.
Low moist grounds, common. July, Aug.
2. **L. syphilitica**, L. Great Lobelia.
Low rich grounds, common, July, Sept.
3. **L. leptostachys**, A. D. C.
Clayey soil, not rare. June, Sept.
4. **L. inflata**, L. Indian Tobacco.
Almost all localities, abundant. July, Dec.

ORDER 47. CAMPANULACEÆ. CAMPANULA FAMILY.

Genus 1. **CAMPANULA**, Tourn. Bellflower.

1. **C. divaricata**, Michx.
Hilly woods, rare.
2. **C. Americana**, L. American Bell. Tall Bellflower.
Rich soil, fence rows and thickets, common. June, Sept.

Genus 2. **SPECULARIA**, Heister.

1. **S. perfoliata**, A. D. C. Venus, Looking-glass.
Fence rows and open grounds, common. April, Aug.

ORDER 48. ERICACEÆ. HEATH FAMILY.

Genus 1. **MONOTROPA**, L. Indian Pipe. Pine Sap.

1. **M. uniflora**, L. Corpse Plant. Fit Plant. Bird's Nest.
Shaded woods, not rare. June, Sept.

ORDER 49. AQUIFOLIACEÆ. HOLLY FAMILY.

Genus 1. **ILEX**. Holly.

1. **I. decidua**, Walt.
Damp grounds, rare. May.
2. **I. verticillata**, Gray. Black Alder. Winterberry,
Borders of ponds, &c., common. June.

ORDER 50. EBENACEÆ. EBONY FAMILY.

Genus 1. **DIOSPYROS**, L. Date Plum. Persimmon.

1. **D. Virginiana**, L. Common Persimmon.
Scattered through woods and fields, but no where abundant.

ORDER 51. PLANTAGINACEÆ. PLANTAIN FAMILY.

Genus 1. **PLANTAGO**, L. Plantain. Ribgrass.

1. **P. major**, L. Common Plantain.
About dwellings, &c., common. May, Aug. Nat. from Eu.
2. **P. cordata**, Lam.
Muddy places, rare. May, June.
3. **P. Virginica**, L.
Open sandy places and hillsides, common. May, Sept.

ORDER 52. PRIMULACEÆ. PRIMROSE FAMILY.

Genus 1. **DODECATHEON**, L. American Cowslip.

1. **D. Meadia**, L. Shooting Star. Pride of Ohio.
Rocky bluffs, not rare. April, June.

Genus 2. **LYSIMACHIA**, Tourn. Loosestrife.

1. **L. ciliata**, L.
Low thickets, common. June, July.
2. **L. lanceolata**, Walt.
Rich grounds and thickets, not rare.
3. **L. lanceolata**; var. **angustifolia**, Gray.
With the last, rare.
4. **L. longifolia**, Pursh.
Low moist grounds, not common. June, Aug.
5. **L. nummularia**, L. Moneywort.
Escaped from cultivation, rare. July, Sept. Adv. from Eu.

Genus 3. **ANAGALLIS**, Tourn. Pimpernel.

1. **A. arvensis**, L. Common Red or Scarlet Pimpernel. Poor-Man's Weather-glass.
Escaped from gardens, rare. Adv. from Eu.

Genus 4. **SAMOLUS**, L. Brook-weed.

1. **S. Valerandi**, L. var. **Americanus**, Gray. Water Pimpernel.
Rich wet places, not abundant. June, Oct.

Genus 5. **HOTTONIA**, L. Featherfoil.

1. **H. inflata**, Ell. Water Violet.
Muddy ponds, rare.

ORDER 53. **LENTIBULACEÆ**. BLADDERWORT FAMILY.

Genus 1. **UTRICULARIA**, L. Bladderwort.

1. **U. vulgaris**, L. Greater Bladderwort.
Ponds, common.

ORDER 54. **BIGNONIACEÆ**. BIGNONIA FAMILY.

Genus 1. **BIGNONIA**, Tourn.

1. **B. capreolata**, L. Cross-Vine.
Bottom lands along rivers, common. April, June. Leaves persist and retain verdure during mild winter until spring.

Genus 2. **TECOMA**, Juss. Trumpet Flower.

1. **T. radicans**, Juss. Trumpet Creeper.
Rich woods and fields, common. June, Sept.

Genus 3. **CATALPA**, Scop., Walt. Indian Bean.

2. **C. bignonioides**, Walt. Catalpa, improperly called Patolpha.
Bottom lands, common. May, June.

Genus 4. **MARTYNIA**, L. Unicorn Plant.

1. **M. proboscidea**, Glox. Devil's Claw.
Sandy idle hillsides, not rare. June, Oct.

ORDER 55. **SCROPHULARIACEÆ**. FIGWORT FAMILY.Genus 1. **VERBASCUM**, L. Mullein.

1. **V. Thapsus**, L. Common Mullein.
Fields and roadsides, abundant. June, Sept. Nat. from Eu.
2. **V. Blattaria**, L. Moth Mullein.
Roadsides and about fields, common. May, Sept. Nat. from Eu.

Genus 2. **LINARIA**, Tourn. Toad-Flax.

1. **L. vulgaris**, Mill. Toad-Flax. Butter-and-eggs. Ramsted.
Escaped to fields and roadsides, not rare. June, July. Nat. from Eu.

Genus 3. **ANTIRRHINUM**, L. Snapdragon.

1. **A. majus**, L. Large Snapdragon.
Escaped from gardens, rare. Adv. from Eu.

Genus 4. **SCROPULARIA**, Tourn. Figwort.

1. **S. nodosa**, L. Carpenter's Square. Healall. Square Stick.
Rich grounds, common. June, Sept.

Genus 5. **COLLINSIA**, Nutt.

1. **C. verna**, Nutt. Innocence.
Rich soil, abundant. May, Aug.

Genus 6. **CHELONE**, Tourn. Turtle-Head. Snake-Head.

1. **C. glabra**, L. Salt-rheum Weed. Shell-Flower. Balmoney.
Wet and boggy places, not common. July, Sept.
- *2. **C. Lyoni**, Pursh.? Gray & Watson. **C. glabra**, L.? Dr. Engelman.
Bottom lands and alluvial soil, not rare. July, Sept.

Genus 7. **PENSTEMON**, Mitchell. Beard-Tongue.

1. **P. pubescens**, Solander. Wild Foxglove.
Moist grounds and meadows, abundant and variable. May. Sept.
2. **P. Digitalis**, Nutt.
Moist rich soil, common. May, Aug.

*Remarks: From specimens sent Prof. Gray and Mr. Watson, they consider this to be identical with *C. Lyoni*, Pursh., but reserve a positive opinion until a more thorough investigation has been made; while Dr. Engelman thinks it may be *C. glabra*, L. During the last four seasons I have carefully observed the two plants in all stages of growth, and have noted the following difference: *C. Lyoni*? is usually found in woods in rich bottom lands and alluvial soil, from one to two, rarely three feet high; leaves from four to six inches long, by one to one and a half inches broad, and *smooth* but *not shining*; flowers varying from purple to dark pink, from one and a half to one and three-quarters inches long. While *C. glabra* is usually from four to six feet high; grows in low and boggy places; leaves from two to four inches by one to one and a half inches, *smooth* and *shining*; flowers a dull yellowish white, from one to one and a half inches long. These differences are constant.

Genus 8. **MIMULUS**, L. Monkey-Flower.

1. **M. ringens**, L.
Wet places, common. July, Sept.
2. **M. alatus**, Ait.
Low wet places, common. July, Sept.

Genus 9. **CONOBEA**, Aublet.

1. **C. multifida**, Benth.
River banks, common. June, Sept. Corolla purplish, leaves
in whorls of three towards the top.

Genus 10. **GRATIOLA**, L. Hedge-Hyssop.

1. **G. Virginiana**, L.
Moist grounds, abundant. April, Sept.

Genus 11. **ILYSANTHES**, Raf.

1. **I. gratioloides**, Benth. False Pimpernel.
Moist shaded places, not common. Aug., Oct.

Genus 12. **VERONICA**, L. Speedwell.

1. **V. Virginica**, L. Culver's-Root. Culver's-Physic. Black-
Root.
Rich grounds and fence-rows, not rare. June, Sept.
2. **V. serpyllifolia**, L. Thyme-leaved Speedwell.
About old fields, common. April, Aug.
3. **V. peregrina**, L. Neckweed. Purslane, Speedwell.
Waste and cultivated ground, common. May, Sept.
4. **V. arvensis**, L. Corn Speedwell.
About dwellings and old fields, common. April, Aug. Nat.
from Eu.

Genus 13. **SEYMERIA**, Pursh,

1. **S. macrophylla**, Nutt. Mullein Foxglove.
Rich shaded soil, common. July, Sept.

Genus 14. **GERARDIA**, L.

1. **G. purpurea**, L. Purple Gerardia.
Moist prairies, rare. Aug., Sept.
2. **G. aspera**, Dougl.
Wet prairies.
3. **G. tenuifolia**, Vahl. Slender-leaved Gerardia.
Dry woods and roadsides, very common. Aug., Oct.
4. **G. puercifolia**, Pursh. Smooth False Foxglove.
Rich hilly shaded woods, not rare. Aug., Sept. Variable.

Genus 15. **CASTILLEIA**, Mutis. Painted Cup.

1. **C. coccinea**, Spreng. Scarlet Painted Cup.
Prairies, rare. May, Aug.

Genus 16. **PEDICULARIS**, Tourn. Lousewort.

1. **P. lanceolata**, Michx.
Wet woods, rare. Aug., Sept.

ORDER 56. **ACANTHACEÆ**. ACANTHUS FAMILY.

Genus 1. **DIANTHERA**, Gronov. Water Willow.

1. **D. Americana**, L.
In the edge of streams, not rare. July, Sept.

Genus 2. **RUELLIA**, L.

1. **R. ciliosa**, Pursh.
Dry open grounds, not rare. May, Sept.
2. **R. strepens**, L.
Rich open grounds and glades, common. July, Sept.
Mostly fruiting in the bud, (*Dipteracanthus micranthus*, Englm. & Gray.)

ORDER 57. **VERBENACEÆ**. VERVAIN FAMILY.

Genus 1. **VERBENA**, L. Vervain.

1. **V. hostata**, L. Blue Vervain. Wild Hyssop. Simpler's Joy.
Low rich grounds, common. June, Sept.
2. **V. urticifolia**, L. Nettle-leaved or White Vervain.
Waste places and roadsides, abundant. July, Sept. Frequently hybridized with the last.
3. **V. stricta**, Vent. Hoary Vervain.
Roadsides and barren soil, very abundant. June, Sept.
4. **V. bracteosa**, Michx.
Open grounds and roadsides, common. June, Sept.
5. **V. Aubletia**, L.
Prairies, rare, except in cultivation. June, Oct.

Genus 2. **LIPPIA**, L.

1. **L. lanceolata**, Michx. Fog Fruit.
Damp grounds, not rare, June, Sept.

Genus 3. **PHRYMA**, L. Lopseed.

1. **P. Leptostachya**, L.
Open woods. June, Aug.

ORDER 58. **LABIATÆ**, MINT FAMILY.

Genus 1. **TEUCRIUM**, L. Germander.

1. **T. Canadense**, L. American Germander. Wood Sage.
Moist rich soil, abundant. June, Sept.

Genus 2. **MENTHA**, L. Mint.

1. **M. viridis**, L. Spearmint.
Wet places, not common. Nat. from Eu.
2. **M. piperita**, L. Peppermint.
Moist rich soil, not rare. Nat. from Eu.
3. **M. arvensis**, L. Corn Mint.
Damp fields, not rare. Nat.? from Eu
4. **M. Canadensis**, L. Wild Mint,
Moist situations along streams, common. July, Oct.

Genus 3. **LYCOPUS**, L. Water Hoarhound.

1. **L. Virginicus**, L. Bugle Weed. Pond Betony.
Wet places, not rare. July, Sept.
2. **L. Europæus**, L.
Moist localities, common. July, Oct. Very variable in form
and color.

Genus 4. **CUNILA**, L. Dittany.

1. **C. Mariana**, L. Common Dittany. Stone Mint. Mountain
Dittany.
Dry rocky hills, rare. June, Oct.

Genus 5. **PYCNANTHEMUM**, Michx. Basil. Mountain Mint.

1. **P. incanum**, Michx.
About fields, not rare. July, Sept.
2. **P. pilosum**, Nutt.
Dry grounds, common. July, Aug.
3. **P. muticum**, Pers.
Dry sandy soil. July, Aug.
4. **P. lanceolatum**, Pursh.
About dry sandy fields, common. July, Aug.
5. **P. linifolium**, Pursh.
Fields and open grounds, common. June, Sept.

Genus 6. **SATUREIA**, L. Savory.

1. **S. hortensis**, L. Summer Savory.
Escaped from gardens to roadsides and fence-rows. June,
Sept. Nat. from Eu.

Genus 7. **HEDEOMA**, Pers. Mock Penny-royal.

1. **H. pulegioides**, Pers. American Pennyroyal.
Fields and roadsides, very abundant. July, Sept.

Genus 8. **COLLINSONIA**, L. Horse-balm. Hardhack.

1. **C. Canadensis**, L. Rich-weed. Stone-root. Heal-all. Ox-
Bahn. Horse-weed.
Rich woods, rare. July, Aug.

Genus 9. **MONARDA**, L. Horse Mint.

1. **M. didyma**, L. Oswego Tea.
Escaped from gardens. June, Aug. Adv. from N. & E. U. S.
2. **M. fistulosa**, L. Wild Bergamot.
Rich grounds, common. June, Sept.
3. **B. Bradburiana**, Beck.
Open woods and fence-rows, common. May, July.

Genus 10. **BELPHILIA**, Raf.

1. **B. ciliata**, Raf.
Dry woods and fields, common. June, July.
2. **B. hirsuta**, Benth.
Rich woods, rare. July, Oct.

Genus 11. **LOPHANTHUS**, Benth. Giant Hyssop.

1. **L. nepetoides**, Benth.
Woods and fence-rows, not rare. July, Sept.
2. **L. scrophulariæfolius**, Benth.
Woods and fields, common. July, Sept.

Genus 12. **NEPETA**, L. Cat Mint.

1. **N. Cataria**, L. Catnip.
Dwelling places, fields and roadsides, abundant. May, Sept.
Nat. from Eu.
2. **N. Glechoma**, Benth. Ground Ivy. Gill-over-the-Grounds.
Low damp grounds, too common. April, Aug. Strongly
but not unpleasantly scented. When once started it
soon spreads over large patches of ground, making itself
a nuisance. Nat. from Eu.

Genus 13. **PHYSOSTEGIA**, Benth. False Dragon-head.

1. **P. Virginiana**, Benth. Lion's Heart.
Low wet places, scarce. July, Sept.

Genus 14. **BRUNELLA**, Tourn. Self-Heal.

1. **B. vulgaris**, L. Common Self-Heal or Heal-all.
Woods and fence-rows, common. May, Sept.

Genus 15. **SCUTELLARIA**, L. Skullcap.

1. **S. canescens**. Nutt.
Rich hilly woods, common. June, Sept.
2. **S. serrata**, Andrews.
Woods and fields, not common. July, Aug.
3. **S. nervosa**, Pursh.
Moist rich places, rare.
4. **S. parvula**, Michx.
Damp rich grounds and prairies, common. May, June.

5. **S. lateriflora**, L. Blue Skullcap. Side-Flowering Skullcap.
Mad-dog Weed. Mad-dog Skullcap.
Moist shaded places and swamps, common. Aug., Oct.

Genus 16. **MARRUBIUM**, L. Hoarhound.

1. **M. vulgare**, L. Common Hoarhound.
About dwellings and roadsides, common. June, Sept. Nat.
from Eu.

Genus 17. **STACHYS**, L. Hedge-Nettle.

1. **S. palustris**, L.
Wet places and swamps, not rare. July, Aug.
2. **S. palustris**, var. *aspera*, Gray.
Wet grounds, rare.
3. **S. palustris**, var. *glabra*, Gray.
Moist places, scarce. July, Aug.
4. **S. palustris**, var. *cordata*, Gray.
Moist places, common. June, Sept. All exceedingly varia-
ble, and gradually run into one another.

Genus 18. **LEONURUS**, L. Motherwort.

1. **L. Cardisca**, L. Common Motherwort.
About dwellings and fields, common. May, Sept. Nat.
from Eu.

Genus 19. **PERILLA**.

1. **P. ocymoides**, var. *crispa*. Perilla Nankinensis.
Escaped from gardens, and almost naturalized. July, Nov.

ORDER 59. **BORRAGINACEÆ**. BORAGE FAMILY.

Genus 1. **SYMPHYTUM**, Tourn. Comfrey.

1. **S. officinale**, L. Common Comfrey.
Escaped from gardens, rare. June, July. Adv. from Eu.

Genus 2. **LITHOSPERMUM**, Tourn. Gromwell. Puccoon.

1. **L. angustifolium**, Michx.
Rich sandy woods and fields, common. May, June.
2. **L. latifolium**, Michx.
Hilly woods, rare.
3. **L. hirtum**, Lehm. Hairy Puccoon.
Dry hilly woods, scarce. April, May.]

Genus 3. **MERTENSIA**, Roth. Smooth Lungwort.

1. **M. Virginica**, D. C. Virginian Cowslip, or Lungwort. Blue-
Bell.
Rich woods and new fields, rapidly becoming extinct, except
in gardens. April, May.

Genus 4. **MYOSOTIS**, L. Scorpion-grass. Forget-me-not.

1. **M. verna**, Nutt.

About fields, not common. April, June.

Genus 5. **ECHINOSPERMUM**, Swartz. Stickseed.

1. **E. Lapula**, Lehm.

Idle places, not common. Nat. from Eu.

Genus 6. **CYNOGLOSSUM**, Tourn. Hound's Tongue.

1. **C. officinale**, L. Common Hound's Tongue.

About old fields and roads, scarce. June, July. Nat. from Eu.

2. **C. Virginicum**, L. Wild Comfrey.

Rich open woods, common. June.

3. **C. Morisoni**, D. C. Beggar's-Lice. Dysentery-Weed. Virginia Mouse-ear.

Copses, rich woods and fields, common. July, Sept.

Genus 7. **HELIOPHYTUM**, Cham., D. C.

1. **H. Indicum**, D. C. Indian Heliotrope.

Rich manured grounds and river banks, common. May, Aug. Nat. from India.

ORDER 60. **HYDROPHYLLACEÆ**. WATERLEAF FAMILY.

Genus 1. **HYDROPHYLLUM**, L. Waterleaf.

1. **H. macrophyllum**, Nutt.

Rich shaded grounds, not rare. May, June.

2. **H. appendiculatum**, Michx.

Rich banks, not common. June, July.

Genus 2. **PHACELIA**, Juss.

1. **P. bipinnatifida**, Michx.

Rich shaded grounds, common. April, June. Strongly but very unpleasantly scented.

2. **P. Purshii**, Buckley.

Rich wooded banks, rare. April, June.

ORDER 61. **POLEMONIACEÆ**. POLEMONIUM FAMILY.

Genus 1. **POLEMONIUM**, Tourn. Greek Valerian.

1. **P. reptans**, E. American Greek Valerian. Blue Bell. Hare Bell. White Snakeroot.

Woods and fields, common, April, June. Whole plant decidedly hairy instead of smooth, as described in text books.

Genus 2. **PHLOX**, L.

1. **P. paniculata**, L.
Low rich places in woods and fields, common. July, Aug.
2. **P. paniculata** var. **acuminata**, Gray.
Wet prairies, rare.
3. **P. maculata**, L. Wild Sweet William.
Wet grounds, not rare. June, July.
4. **P. glaberrima**, L.
Low moist prairies, not rare. June, Aug.
5. **P. pilosa**, L.
Woods, thickets and prairies, abundant and exceedingly variable in width of leaves and color of flowers. April, June.
6. **P. procumbens**, Lehm.
Hilly woods, rare. April, June.
7. **P. divaricata**, L.
Hilly woods, common. April, June.

ORDER 62. **CONVOLVULACEÆ**. CONVULVULUS FAMILY.Genus 1. **QUAMOCLIT**, Tourn. Cypress Vine.

1. **Q. coccinea**, Mœnch.
River banks and fence rows. July, Sept. Nat. from Trop. Amer.

Genus 2. **IPOMCEA**, L. Morning Glory.

1. **I. purpurea**, Lam. Common Morning Glory.
Escaped from cultivation to fields. July, Oct. Adv. from Trop. America.
2. **I. Nil**, Roth. Smaller Morning Glory.
Fields and woods, common. July, Oct. Nat. from Trop. America.
3. **I. lacunosa**, L.
Bottom lands in fields and woods. Aug., Oct.
4. **I. pandurata**, Meyer. Wild Potato Vine. Man-of-the-Earth.
Wild Jalap.
Sandy fields and thickets, common. June, Aug.

Genus 3. **CALYSTEGIA**, R. Br. Bracted Bindweed.

1. **C. sepium**, R. Br. Hedge Bindweed.
Rich moist places in fields and thickets, common. June, Sept.

Genus 4. **CUSCUTA**, Tourn. Dodder.

1. **C. Gronovii**, Willd.
Rich places and thickets, common. July, Sept.
2. **C. compacta**, Juss.
Rich moist places, common. Aug., Sept.
3. **C. glomerata**, Choisy.
Same locality as the last, not rare. July, Sept.

ORDER 63. **SOLANACEÆ**. NIGHTSHADE FAMILY.Genus 1. **SOLANUM**, Tourn. Nightshade.

1. **S. Dulcamara**, L. Bittersweet. Woody Nightshade. Violet Bloom. Scarlet Berry.
River bottoms and about dwellings, rare. June, Sept. Nat. from Eu.
2. **S. nigrum**, L. Common or Black Nightshade.
Woods and fields, common. July, Nov. Nat. from Eu.
3. **S. Carolinense**, L. Horse or Bull Nettle.
Cultivated grounds and shaded woods, abundant. June, Sept.

Genus 2. **PHYSALIS**, L. Ground Cherry.

1. **P. pubescens**, L.
Rich grounds in fields and glades. June, Sept.
2. **P. viscosa**, L. Yellow Henbane.
Fields and woods, not common. June, Aug.
3. **P. Pennsylvanica**, var. **Lanceolata**, Gray.
Dry woods and fields, common. June, July.

Genus 3. **NICANDRA**, Adans. Apple of Peru.

1. **N. physaloides**, Gærtn.
Waste grounds about dwellings and farms. June, Aug. Nat. from Peru. Flowers begin to open at 12 M., and are closed again at 5 P. M.

Genus 4. **LYCIUM**, L. Matrimony-Vine.

1. **L. vulgare**, Dunal. Common Matrimony-Vine. Jassamine.
Escaped from cultivation to old fields and steep banks, April, Aug. Nat. from Eu.

Genus 5. **DATURA**, L. Jamestown-Weed. Thorn-Apple.

1. **D. Stramonium**, L. Common Stramonium or Thorn-Apple.
Rich idle grounds, not common. Nat. from Asia.
2. **D. Tatula**, L. Purple Thorn-Apple.
Fields, roadsides and open woods, abundant. July, Sept. Nat. from Trop. Amer.

Genus 8. **PETUNIA**, Juss.

1. **P. Nyctaginiflora**, Juss. Common Petunia.
Escaped from gardens. July, Sept. Adv. from S. A. For several years I have found this growing about dwellings and roadsides. Of specimens sent Prof. Gray, he remarks: "A cross of the two species, mainly *Nyctaginiflora*."

ORDER 64. **GENTIANACEÆ**. GENTIAN FAMILY.Genus 1. **SABBATIA**, Adans. American Centaury.

1. **S. angularis**, Pursh. Centaury Plant. Rose-Pink.
Dry grounds, scarce. July, Sept.

Genus 2. **FRASERA**, Walt. American Columbo.

1. **F. Carolinensis**, Walt.
Hilly woods, not rare. June, July.

Genus 3. **GENTIANA**, L. Gentian.

1. **G. alba**, Muhl. Whitish Gentian.
Hilly woods and rocky bluffs, rare. Sept., Nov.
2. **G. Andrewsii**, Griseb. Closed Blue-Gentian.
Rich hilly woods, not rare. Sept., Nov.

Genus 4. **OBOLARIA**, L.

1. **O. Virginica**, L.
Rich moist soil near streams, rare.

ORDER 65. **APOCYNACEÆ**. DOGBANE FAMILY.Genus 1. **AMSONIA**, Walt.

1. **A. Tabernæmontana**, Walt.
Low wet grounds, frequent. May, June.

Genus 2. **APOCYNUM**, Tourn. Dogbane. Indian Hemp.

1. **A. cannabinum**, L. Indian Hemp.
Banks of streams and about fields, common. June, Aug.
2. **A. cannabinum**, var. *pubescens*, D. C.
About fields and fence-rows, not rare. June, Aug.

ORDER 66. **ASCLEPIADACEÆ**. MILKWEED FAMILY.Genus 1. **ASCLEPIAS**, L. Milkweed. Silkweed.

1. **A. Cornuti**, Decaisne. Common Milkweed or Silkweed.
Rich sandy grounds, not common.
2. **A. purpurascens**, L. Purple Milkweed.
Low moist grounds and prairies, common. June, Aug.

3. **A. variegata**, L. Variegated Milkweed.
Woods and fields, rare.
4. **A. perennis**, Walt.
Low grounds, not rare. June, Aug.
5. **A. incarnata**, L. Swamp Milkweed.
Wet grounds in alluvial soil, common. July, Aug.
6. **A. tuberosa**, L. Butterfly-weed. Pleurisy Root. Wind Root.
Prairies and fence-rows, becoming rare. June, Aug.

Genus 2. **ACERATES**, Ell. Green Milkweed.

1. **A. longifolia**, Ell.
Wet prairies, rare. July, Oct.

Genus 3. **ENSLENIA**, Nutt.

1. **E. albida**, Nutt.
River banks, common. July, Sept.

Genus 4. **GONOLOBUS**, Michx.

1. **G. lævis**, Michx.
Alluvial soil, rare. June, July.

ORDER 67. **OLEACEÆ**. OLIVE FAMILY.

Genus 1. **LIGUSTRUM**, Tourn. Privet.

1. **L. vulgare**, L. Common Privet or Prim.
Occasionally found in fields and woods. Nat. from Eu.

Genus 2. **FRAXINUS**, Tourn. Ash.

1. **F. Americana**, L. White Ash.
Rich woods, common.
2. **F. virides**, Michx. f. Green Ash.
Wet places, not rare.
3. **F. sambucifolia**, Lam. Black or Water Ash.
Swamps and wet places, not rare.
4. **F. quadrangulata**, Michx. Blue Ash.
Rich hilly woods, rare.

Genus 3. **FORESTIERA**, Poir.

1. **F. acuminata**, Poir.
River banks and alluvial soil. March, April.

ORDER 68. **ARISTOLOCHIACEÆ**. BIRTHWORT FAMILY.

Genus 1. **ASARUM**, Tourn. Asarabacca. Wild Ginger.

1. **A. Canadense**, L. Indian Ginger. Colt's Foot. Canada Snakeroot.
Shaded, hilly, rich woods, common. April, May.

Genus 2. **ARISTOLOCHIA**, Tourn. Birthwort.

1. **A. Serpentaria**, L. Virginia Snakeroot. Snakeroot Snake-weed.
Loose rich earth, common. May, June.
2. **A. tomentosa**, Sims. Pipe Vine.
Rich river banks, not rare. May, June.

ORDER 69. PHYTOLACCACEÆ. POKE WEED FAMILY.

Genus 1. **PHYTOLACCA**, Tourn. Pokeweed.

1. **P. decandra**, L. Common Poke or Scape. Gargetweed.
Pigeonberry. Coakum.
Rich grounds and fence rows, common. June, Aug.

ORDER 70. CHENOPODIACEÆ. GOOSEFOOT FAMILY.

Genus 1. **CHENOPODIUM**, L. Goosefoot. Pigweed.

1. **C. album**, L. Lamb's Quarters. Pigweed.
Fields and fence rows, common. Aug., Oct. Nat. from Eu.
2. **C. viride**, L.
Same locality as the last but more common. June, Sept.
Nat. from Eu. The last two appear to be entirely distinct species with us. The following are the most prominent differences: 1st, **C. viride** is from six to eight weeks earlier in bloom; 2d, its leaves are longer, much narrower, more entire and a deeper green; 3d, these differences are constant; they do not grade into one another.
3. **C. ambrosioides**, L. Mexican Tea.
Sandy drifts and river banks, not rare. July, Aug. Nat. from Trop. Amer. Very strongly but not unpleasantly scented.
4. **C. anthelminticum**, L. Wormseed. Jerusalem Oak.
Old fields and dwellings, common. July, Sept. Nat. from Trop. Amer. Very strongly and decidedly unpleasantly scented. Appears entirely distinct from the last, here.

ORDER 71. AMARANTACEÆ. AMARANTH FAMILY.

Genus 1. **AMARANTUS**, Tourn. Amaranth.

1. **A. hypochondriacus**, L. Prince's Feather.
Escaped from gardens, rare. Aug., Oct. Adv. from Trop. Amer.
2. **A. paniculatus**, L. Careless-Weed.
About fields and idle places, common. Nat. from Trop. Amer.

3. **A. retroflexus**, L. Careless-Weed.
Cultivated grounds and borders of woods. Nat. from Trop. Amer.
4. **A. spinosa**, L. Thorny Amaranth.
Fields and open grounds, everywhere. Sept. Of recent introduction, but rapidly spreading, to the great annoyance of farmers, who usually call it Canada Thistle. Nat. from Trop. Amer.

Genus 2. **MONTELIA**, Moquin.

1. **M. tamariscina**, Gray.
Sand-bars along streams, common. July, Sept.

Genus 3. **IRISCINE**, P. Browne.

1. **I. celosioides**. L.
*River bottoms and alluvial soil, rare. Sept., Oct.

ORDER 72. **POLYGONACEÆ**. BUCKWHEAT FAMILY.

Genus 1. **POLYGONUM**, L. Knotweed.

1. **P. orientale**, L. Prince's Feather. Lady's Finger.
Escaped from gardens, not common. July, Sept. Adv. from India.
2. **P. Pennsylvanicum**, L.
Rich grounds, abundant. July, Dec.
3. **P. incarnatum**, Ell.
Wet places, common. July, Sept.
4. **P. Persicaria**, L. Lady's Thumb.
Damp waste places, common. Aug., Sept.
5. **P. Hydropiper**, L. Common Smartweed or Water-Pepper.
Wet heavy grounds, common.
6. **P. hydropiperoides**, Michx. Mild Water-Pepper.
Wet places, abundant. June, Aug.
7. **P. amphibium**, L. Water Persicaria.
Borders of ponds, common. Aug., Oct.
8. **P. amphibium**, var. **aquaticum**, Willd.
Shallow muddy ponds, not common.
9. **P. Virginicum**, L.
Thickets, common. Aug., Sept.
10. **P. aviculare**, L. Knotgrass. Goose-grass. Door-weed.
Waste places and about dwellings, abundant. June, Sept.
11. **P. aviculare**, var. **erectum**, Roth.
Moist rich grounds about dwellings, common. June, Sept.
12. **P. sagittatum**, L. Arrow-leaved Tear-thumb.
Moist grounds, common. July, Oct.
13. **P. dumetorum**, L. Climbing False Buckwheat.
Clayey soil, rare.

14. **P. dumetorum**, var. **scandens**, Gray.
Moist rich soil in thickets and fence-rows, common. Aug., Oct.

Genus 2. **FAGOPYRUM**, Tourn. Buckwheat.

1. **F. esculentum**, Moench. Common Buckwheat.
Occasionally found escaped from fields. Adv. from Eu.

Genus 3. **RUMEX**, L. Dock Sorrel.

1. **R. Britannica**, L. Pale Dock.
Moist rich grounds, common. May, July.
2. **R. verticillatus**, L. Swamp Dock.
Muddy borders of ponds, common.
3. **R. crispus**, L. Curled Dock.
Fields and barnyards, a detested weed. May, Aug. Nat. from Eu.
4. **R. obtusifolius**, L. Bitter Dock.
About dwellings and cultivated grounds. Nat. from Eu.
5. **R. sanguineus**, L. Bloody-veined Dock.
Rich grounds about fields, rare. June, Sept. Nat. from Eu.
6. **R. Acetosella**, L. Field or Sheep Sorrell.
Sandy soil, common. May, Sept.

ORDER 73. **LAURACEÆ**. LAUREL FAMILY.

Genus 1. **SASSAFRAS**, Nees.

1. **S. officinale**, Nees. Red and White Sassafras.
Rich woods, common.

Genus 2. **LINDERA**, Thunberg. Wild Allspice. Fever-bush.

1. **L. Benzoin**, Meisner. Spice-bush. Benjamin-bush.
Wet rich woods, not rare. March, April.

ORDER 74. **LORANTHACEÆ**. MISTLETOE FAMILY.

Genus 1. **PHORADENDRON**, Nutt. False Mistletoe.

1. **P. flavescens**, Nutt. American Mistletoe.
On trees, most frequently on the American Elm. April.

ORDER 75. **SAURURACEÆ**. LIZARD'S-TAIL FAMILY.

Genus 1. **SAURURUS**, L. Lizard's Tail.

1. **S. cernuus**, L.
Wet swampy places, common. June, Aug.

ORDER 76. **CERATOPHYLLACEÆ.** HORNWORT.Genus 1. **CERATOPHYLLUM**, L. Hornwort.

1. **C. demersum**, L.
Ponds, not common.

ORDER 77. **CALLITRICHACEÆ.** WATER STARWORTS.Genus 1. **CALLITRICHE**, L. Water Starwort.

1. **C. luterophylla**, Pursh.
Ponds, not rare.

ORDER 78. **EUPHORBIACEÆ.** SPURGE FAMILY.Genus 1. **EUPHORBIA**, L. Spurge.

1. **E. maculata**, L.
Forming plots on barren clayey hillsides, common. Aug., Oct.
2. **E. hypericifolia**, L. Large Spotted Spurge. Black or Milk Pursley.
Cultivated grounds, very common. June, Aug.
3. **E. marginata**, Pursh.
Escaped from gardens, rare. Adv. from Western plains.
4. **E. corollata**, L. Large Flowering Spurge. Blooming Spurge. Milkweed.
Fields and open grounds, common. July, Oct.
5. **E. obtusata**, Pursh.
River bottoms, rare. June, July.
6. **E. Esula**, L. Garden Pine.
Escaped from gardens to old rich soil, almost naturalized.
May, Aug. Adv. from Eu.

Genus 2. **ACALYPHA**, L. Three-seeded Mercury.

1. **A. Virginica**, L.
Dry shaded woods, common.
2. **A. Virginica** var. *gracileus*, Gray. June, Sept.
Less common than the last.

Genus 3. **PHYLLANTHUS**, L.

1. **P. Carolinensis**, Walt.
Dry prairies and woods, not rare. July, Sept.

ORDER 79. **URTICACEÆ.** NETTLE FAMILY.Genus 1. **ULMUS**, L. Elm.

1. **U. fulva**, Michx. Slippery or Red Elm.
Moist rich soil, not abundant.

2. **U. Americana**, Willd. American or White Elm.
Low rich woods, abundant.
3. **U. alata**, Michx. Wahoo or Winged Elm.
Banks of streams, rare.

Genus 2. **CELTIS**, Tourn. Nettle-tree. Hackberry.

1. **C. occidentalis**, L. Sugarberry. Hackberry.
Bottom lands, common.
2. **C. occidentalis**, var. **Mississippiensis**, Bosc.
Same locality as the last, less common.

Genus 3. **MORUS**, Tourn. Mulberry.

1. **M. rubra**. Red or Common Mulberry.
Scattered through the woods, and found in almost all localities, not abundant in any spot.
2. **M. alba**, L. White Mulberry.
Escaped from cultivation. Adv. from Eu.

Genus 4. **URTICA**, Tourn. Nettle.

1. **U. gracilis**, Ait.
Moist rich grounds, not common. July, Aug.

Genus 5. **LAPORTEA**, Gaudichaud. Wood Nettle.

1. **L. Canadensis**, Gaudichaud.
Rich shaded woods. July, Sept.

Genus 6. **PILEA**, Lindl.

1. **P. pumila**, Gray. Richweed. Clearweed.
Shaded rich grounds, common. June, Oct.

Genus 7. **BOEHMERIA**, Jacq. False Nettle.

1. **B. cylindrica**, Willd.
Moist grounds, common.

Genus 8. **PARIETARIA**, Tourn. Pellitory.

1. **P. Pennsylvanica**, Muhl.
Shaded banks, rare.

Genus 9. **CANNABIS**, Tourn. Hemp.

1. **C. sativa**, L. Hemp.
Waste grounds and fence-rows, common. July, Aug. Nat. from Eu.

Genus 10. **HUMULUS**, L. Hop.

1. **H. Lupulus**, L. Common Hop.
Rich loose earth and thickets, not rare. July, Aug.

ORDER 80. **PLATANACEÆ**. PLANE-TREE FAMILY.

Genus 1. **PLATANUS**, L. Plane-Tree. Buttonwood.

1. **P. occidentalis**, L. American Plane-Tree. Sycamore.
Banks of streams and alluvial soil, common.

ORDER 81. **JUGLANDACEÆ.** WALNUT FAMILY.Genus 1. **JUGLANS**, L. Walnut.

1. **J. cinerea**, L. Butternut. White Walnut.
Broken grounds, scarce.
2. **J. nigra**, L. Black Walnut.
Rich soil, common.

Genus 2. **CARYA**, Nutt. Hickory.

1. **C. olivæformis**, Nutt. Pecan-nut.
Bottom lands and alluvial soil, not rare.
2. **C. alba**, Nutt. Shell-bark. Shag-bark Hickory.
Rich sand ridges in bottom lands, common.
3. **C. microcarpa**, Nutt. Small-fruited Hickory.
Heavy damp soil, scarce. Has very little loose bark, one of our smallest hickorys.
4. **C. sulcata**, Nutt. Western Shell-bark Hickory.
Most common along streams.
5. **C. tomentosa**, Nutt. Mocker-nut. Black Hickory. White-heart Hickory.
Common.
6. **C. porcina**, Nutt. Broom Hickory.
Upland woods, scarce.
7. **C. amara**. Bitter-nut. Pig-nut. Swamp Hickory.
Rich soil, scarce.

ORDER 82. **CUPULIFERÆ.** OAK FAMILY.Genus 1. **QUERCUS**. L. Oak.

1. **Q. alba**, L. White Oak.
Rich hilly woods, abundant.
2. **Q. obtusiloba**, Michx. Post Oak. Rough or Box White Oak.
Iron Oak. Turkey Oak.
Wet clayey soil, not common.
3. **Q. macrocarpa**, Michx. Burr Oak. Over-cup Oak. Mossy-cap White Oak.
Alluvial soil and bottom lands, common.
4. **Q. bicolor**, Willd. Swamp White Oak.
Wet grounds, common.
5. **Q. Prinus**, L. Chestnut Oak.
Alluvial soil, scarce.
6. **Q. Prinus** var. **acuminata**, Michx. Yellow Chestnut Oak.
Chinquapin Oak.
Hillsides and river banks, frequent.
7. **Q. Phellos**, L. Willow Oak.
Rich sandy soil, rare.

8. *Q. imbricaria*, Michx. Laurel or Shingle Oak.
Low rich and prairie soil, abundant.
9. *Q. nigra*, L. Black-Jack or Barren Oak.
Dry sandy barrens, where it is common.
10. *Q. falcata*, Michx. Spanish Oak.
Low grounds, very rare.
11. *Q. coccinea*, Wang. Scarlet Oak.
Bottom lands and grown up prairies, abundant.
12. *Q. coccinea*, var. *tinctoria*, Gray. Quercitron. Yellow
Barked or Black Oak.
With the last, common.
13. *Q. rubra*, L. Red Oak.
Banks of streams and low grounds, common.
14. *Q. palustris*, Du Roi. Swamp Oak. Pin Oak.
Wet soil, abundant.

Genus 2. **CASTANEA**, Tourn. Chestnut.

1. *C. vesca* var. *Americana*, Michx. Chestnut.
A few scattered trees have been found, probably not a native
of our vicinity.

Genus 3. **FAGUS**. Tourn. Beech.

1. *F. ferruginea*, Ait. American Beech.
Rich woods; usually found in patches, where it is the principal
timber.

Genus 4. **CORYLUS**, Tourn. Hazelnut. Filbert.

1. *C. Americana*, Walt. Wild Hazlenut.
Rich woods, forming thickets, common.

Genus 5. **OSTRYA**, Mich. Hop Hornbeam. Iron Wood.

1. *O. Virginica*, Willd. American Hop Hornbeam. Lever
Wood.
River banks, very rare.

Genus 6. **CARPINUS**, D. Hornbeam. Iron Wood.

1. *C. Americana*, Michx. American Hornbeam. Common
Iron Wood. Blue or Water Beech.
Rich woods, common.

ORDER 83. **BETULACEÆ**. BIRCH FAMILY.

Genus 1. **BETULA**, Tourn. Birch.

1. *B. lenta*, L. Cherry, Sweet, Black or Mahogany Birch.
Banks of streams, not abundant.
2. *B. nigra*, L. River or Red Birch.
Wet banks, rare.

Genus 2. **ALMUS**, Tourn. Alder.

1. *A. serrulata*, Ait. Smooth Alder.
About ponds and banks of streams, common.

ORDER 84. **SALICACEÆ.** WILLOW FAMILY.Genus 1. **SALIX**, Tourn. Willow. Osier.

1. **S. tristis**, Ait. Dwarf Gray Willow.
Along small streams, common.
2. **S. humilis**, Marshall. Prairie Willow.
Prairies and low grounds, common.
3. **S. discolor**, Muhl. Glauous Willow.
Moist banks and along streams, rare.
4. **S. petiolaris**, Smith. Petioled Willow.
Wet places, common.
5. **S. lucida**, Muhl. Shining Willow.
Moist banks of streams, common.
6. **S. nigra**, Marsh, Black Willow.
About wet places and streams, common.
7. **S. alba**, var. **vitellina**. Yellow Willow. Golden Osier.
Wet places and along small streams, not rare. Nat. from
Eu.

Genus 2. **POPULUS**, Tourn. Poplar. Aspen.

1. **P. tremuloides**, Michx. American Aspen.
Upland woods, rare.
2. **P. heterophylla**, L. Downy Poplar. Cotton Tree.
Swamps and alluvial soil, scarce.
3. **P. monilifera**, Ait. Cotton Wood. Necklace Poplar.
Borders of streams, common.
4. **P. alba**, L. White Poplar. Silver-leaf Poplar.
Spreading from cultivation. Adv. from Eu.

ORDER 85. **CONIFERÆ.** PINE FAMILY.Genus 1. **PINUS**, Tourn. Pine.

1. **P. mitis**, Michx. Yellow Pine.
Hills near the mouth of the Wabash river, in Gallatin Co.,
Illinois

Genus 2. **CUPRESSUS**, Tourn. Cypress.

1. **C. thyroides**, L. White Cedar.
Wet places near the mouth of the Wabash river.

Genus 3. **TAXODIUM**, Richard. Bald Cypress.

1. **T. distichum**, Richard. American Bald Cypress.
Swamps, where it sometimes forms the principal growth.

Genus 4. **JUNIPERUS**, L. Juniper.

1. **J. communis**, L. Common Juniper.
Rich woods, rare.
2. **J. Virginiana**, L. Red Cedar or Savine.
Rocky hills in Gallatin Co., Ill. Near the mouth of Wabash
river.

ORDER 86. **ARACEÆ.** ARUM FAMILY.Genus 1. **ARISÆMA**, Martius. Indian Turnip. Dragon Arum.

1. **A. triphyllum**, Torr. Indian Turnip. Jack-in-the-pulpit.
Wake Robin.
Rich woods, not rare. May.
2. **A. Dracontium**, Schott. Green Dragon. Dragon-Root.
Low rich grounds, common. May.

Genus 2. **SYMPLOCARPUS**, Salisb. Skunk Cabbage.

1. **S. foetidus**, Salisb.
Boggy places, rare.

Genus 3. **ACORUS**, L. Sweet Flag.

1. **A. calamus**, L.
Miry places about streams, not rare.

ORDER 87. **LEMNACEÆ.** DUCKWEED FAMILY.Genus 1. **LEMNA**, L. Duckweed. Duck's-meat.

1. **L. minor**, L.
Stagnant waters, rare.
2. **L. polyrrhiza**, L.
Still waters, and drifts in streams, common.

ORDER 88. **TYPHACEÆ.** CAT-TAIL FAMILY.Genus 1. **TYPHA**, Tourn. Cat-tail Flag.

1. **T. latifolia**, L. Common Cat-tail or Reed-mace.
Ponds and muddy places, not common.

Genus 2. **SPARGANIUM**, Tourn. Burr-reed.

1. **S. eurycarpum**, Englm.
Ponds and streams, not rare.
2. **S. simplex**, var. **androcladum**, Gray.
Ponds, rare.

ORDER 89. **NAIADACEÆ.** PONDWEED FAMILY.Genus 1. **NAIAS**, L. Naiad.

1. **N. Indica** var. **gracillima**, Braun.
Deeper ponds.

Genus 2. **POTAMOGETON**, Tourn. Pondweed.

1. **P. natans**, L.
Deep ponds, common.
2. **P. Claytonii**, Tuckerman.
Ponds and slow waters, rare.

3. **P. Vaseyi**, Robbins.
Small pond near Mt. Carmel, Ill.
4. **P. lonchites**, Tuckerman.
Wabash river, rare,
5. **P. gramineus** var. **spathulæformis**, Gray.
Wabash river on floating logs.
6. **P. luceus**, L.
Ponds, rare.
7. **P. pectinatus**, L.
Wabash river, rare.

ORDER 90. **ALISMACEÆ**. WATER PLANTAIN FAMILY.

Genus 1. **ALISMA**, L. Water Plantain.

1. **A. Plantago** var. **Americanum**, Gray. Mad-dog Weed.
Muddy wet places, common.

Genus 2. **SAGITTARIA**, L. Arrow-head.

1. **S. variabilis**, Engelm. Common Arrow-head.
Wet places, common. June, Sept.
2. **S. heterophylla**, Pursh.
Slow or muddy waters, not rare.
3. **S. graminea**, Michx.
Muddy waters, rare. June, Sept.

ORDER 91. **HYDROCHARIDACEÆ**. FROG'S-BIT FAMILY.

Genus 4. **ANACHARIS**, Richard. Water Weed.

1. **A. Canadensis**, Planchon.
Deep ponds, not common.

ORDER 92. **ORCHIDACEÆ**. ORCHIS FAMILY.

Genus 1. **HABENARIA**, Willd., R. Br. Rein-orchis.

1. **H. peramcena**, Gray.
Low moist grounds, not common. June, Aug.

Genus 2. **SPIRANTHES**, Richard. Ladies' Tresses.

1. **S. cernua**, Richard.
Wet soil rare. Sept., Oct.

Genus 3. **POGONIA**, Juss.

1. **P. pendula**, Lindl.
Damp rich woods, rare.

Genus 4. **LIPARIS**, Richard. Twayblade.

1. **L. liliifolia**, Richard.
Shaded rich woods not rare. May, July.

Genus 5. **CORALLORHIZA**, Haller, Coral-root.

1. **C. odontorhiza**, Nutt.
Shaded woods in rich soil, rare. July, Sept.

Genus 6. **APLECTRUM**, Nutt. Putty-root.

1. **A. hyemale**, Nutt. Adam-and-Eve.
Rich shaded soil in woods, not common.

Genus 7, **CYPRIPEDIUM**, L. Ladies' Slipper.

1. **C. candidum**, Muhl. Small White Ladies' Slipper.
Rapidly disappearing, once common here.
2. **C. parviflorum**, Salisb. Smaller Yellow Ladies' Slipper.
Once common here.

ORDER 93. **AMARYLLIDACEÆ**. AMARYLLIS FAMILY.

Genus 1. **PANCRATIUM**, L.

1. **P. rotatum**, Ker.
Moist rich woods and alluvial soil, rare. July, Sept.

Genus 2. **AGAVE**, L. American Aloe.

1. **A. Virginica**, L. False Aloe.
Dry gravelly or rocky banks, not common. June, Sept.

Genus 3. **HYPOXYS**, L. Star-grass.

1. **H. erecta**, L.
Rich woods, rare. May, July.

ORDER 94. **HÆMODORACEÆ**. BLOODWORT FAMILY.

Genus 1. **ALETTRIS**, L. Colic-root. Star-grass.

1. **A. farinosa**, L. Unicorn-root. Ague-root. Crow-corn.
Prairies, almost extinct here.

ORDER 95. **IRIDACEÆ**. IRIS FAMILY.

Genus 1. **IRIS**, L. Flower-de-Luce.

1. **I. versicolor**, L. Large Blue Flag.
Wet places, common. May, June.

Genus 2. **PARDANTHUS**, Ker. Blackberry-Lily.

1. **P. Chinensis**, Ker.
Sandy ridges in bottom lands, not rare. Nat. from China.

Genus 3. **SISYRINCHIUM**, L. Blue-eyed Grass.

1. **S. Bermudiana**, L.

Open rich woods and moist places, common. April, Aug.
Exceedingly variable, passing into var. **anceps**, **mu-**
ronatum, and **allidum**. All found here.

ORDER 96. **DIOSCOREACEÆ**. YAM FAMILY.

Genus 1. **DIOSCOREA**, Plumier. Yam.

1. **D. villosa**, L. Wild Yam-root. Colic-root.

Bottom lands and thickets, common. June.

ORDER 97. **SMILACEÆ**. SMILAX FAMILY.

Genus 1. **SMILAX**, Tourn. Greenbrier. Catbrier.

1. **S. rotundifolia**, L. Common Greenbrier.

Moist woods and thickets, common. Variety **quadrangu-**
laris, is also common.

2. **S. glauca**, Walt.

Upland woods, forming thickets. June. During mild win-
ters leaves hang on and remain green for two or more
seasons.

3. **S. herbacea**, L. Carrion Flower.

Rich grounds, rare. May. Flowers decidedly carrion
scented.

4. **S. herbacea**. var. **pulverulenta**, Gray.

About fields and thickets, not rare. May, June. Flowers
scented similar to the staminate flowers of **Ailan-**
tus glandulosa.

ORDER 98. **LILIACEÆ**. LILY FAMILY.

Genus 1. **TRILLIUM**, L. Three-leaved Nightshade.

1. **T. sessile**, L.

Rich woods, rare. April, May. Leaves very slightly
blotched.

2. **T. recurvatum**, Beck. Spotted Trillium. Spotted Wake
Robin.

Rich grounds, abundant. April, May. Leaves more plainly
spotted than the last.

3. **T. grandiflorum**, Salisb. Large White Trillium or Wake
Robin.

Rich woods, rare. April, May.

4. **T. erectum**, var. **album**, Pursh. Ground Lily. Wake Robin.

Rich woods, rare. April, May.

Genus 2. **UVULARIA**, L. Bellwort.

1. **U. grandiflora**, Smith.
Rich hilly woods, not common. April, May.
2. **U. sessiliflora**, L.
Woods, rare. April, May.

Genus 3. **SMILACINA**, Desf. False Solomon's Seal.

1. **S. racemosa**, Desf. False Spikenard.
Rich open woods, not rare,
2. **S. stellata**, Desf.
Shaded banks, not rare. May, June.

Genus 4. **POLYGONATUM**, Tourn. Solomon's Seal.

1. **P. biflorum**, Ell. Smaller Solomon's Seal.
Shaded woods, not rare.
2. **P. giganteum**, Dietrich. Great Solomon's Seal.
Rich grounds and thickets, common. May, July.

Genus 5. **ASPARAGUS**, L.

1. **A. officinalis**, L. Garden Asparagus.
Springly escaped from gardens Adv. from Eu.

Genus 6. **LILIUM**, L. Lily.

1. **L. Philadelphicum**, L. Wild Orange-red Lily.
Low sandy grounds, becoming very rare. July, Aug.
2. **L. Canadense**, L. Wild Yellow Lily.
Wet prairies, almost disappeared. June, July.
3. **L. superbum**, L. Turk's-cap Lily.
Low grounds and prairies, rapidly becoming extinct. June,
July,

Genus 7. **ERYTHRONIUM**, L. Dog's-tooth Violet.

1. **E. Americanum**, Smith. Yellow Adder's-tongue. Yellow
Snowdrop.
Woods, rare.
2. **E. albidum**, Nutt. White Dog's-tooth Violet. May Pea.
Rattlesnake Violet.
Rich hillsides, not common. March, April.

Genus 8. **ORNITHOGALUM**, Tourn. Star-of-Bethlehem.

1. **O. umbellatum**, L. White Star-of-Bethlehem.
Escaped from flower gardens. Adv. from Eu.

Genus 9. **SCILLA**, L. Squill.

1. **S. Fraseri**, Gray. Eastern Quamash. Wild Hyacinth.
Once common on prairies and in woods, now seldom found
wild.

Genus 10. **ALLIUM**, L. Onion. Garlic.

1. **A. Canadense**, Kalm. Wild Garlic.
Prairies and low moist woods. May, June.
2. **A. striatum**, Jacq.
Prairies, rare.

Genus 11. **HEMEROCALIS**, L. Day Lily.

1. **H. fulva**, L. Common Day Lily.
Escaped from gardens to sandy fields, rare. Adv. from Eu.
2. **H. flava**, L. Yellow Dog Lily.
Sparingly escaped from gardens. Adv. from Eu.

ORDER 99. **JUNCACEÆ**. RUSH FAMILY.Genus 1. **JUNCUS**, L. Rush. Bog-Rush.

1. **J. marginatus**, Rostkovius.
Moist prairies and wet places, common.
2. **J. tenuis**, Willd.
Damp rich soil, common about foot-paths.
3. **J. acuminatus**, Michx.
Moist places, common.

ORDER 100. **PONTEDERIAÆ**. PICKEREL-WEED FAMILY.Genus 1. **PONTEDERIA**, L. Pickerel-weed.

1. **P. cordata**, L. Blue Pickerel-weed.
Ponds and muddy places, not rare. June, Sept.

Genus 2. **HETERANTHERA**, Ruiz & Pav. Mud-Plantain.

1. **H. reniformis**, Ruiz & Pav.
Muddy borders of ponds, rare.

Genus 3. **SCHOLLERA**, Schreber. Water Star-grass.

1. **S. graminea**, Willd.
Borders of streams, not abundant. July, Sept. Exceedingly variable; when growing in water the leaves and stems are from one to two feet long; while, when found on the muddy borders, they are usually one to two inches in length.

ORDER 101. **COMMELYNACEÆ**. SPIDERWORT FAMILY.Genus 1. **COMMELYNA**, Dill. Day Flower.

1. **C. Virginica**, L.
Rich sandy soil, rare. July, Aug.
2. **C. Cayennensis**, Richard.
Moist shaded places, common. June, Sept.

Genus 2. **TRADESCANTIA**, L. Spiderwort.

1. **T. Virginica**, L. Common Spiderwort.
Prairies and rich grounds, common. May, June.
2. **T. pilosa**, Lehm. Tall Spiderwort.
Thickets and rich grounds, common. June, Aug.

ORDER 102. **CYPERACEÆ**. SEDGE FAMILY.Genus 1. **CYPERUS** L.

1. **C. diandrus**, Torr.
Low grounds, common.
2. **C. crythrorhizos**, Muhl.
Moist banks of streams, common.
3. **C. phymatodes**, Muhl.
Muddy borders of streams, not rare.
4. **C. strigosus**, L.
Damp grounds, abundant.
5. **C. ovularis**, Torr.
Dry gravelly and sandy soil, common.

Genus 2. **KILLINGIA**, Rottboll.

1. **K. pumila**, Michx.
Moist rich grounds, common.

Genus 3. **ELEOCHARIS**, R. Br. Spike Rush.

1. **E. obtusa**, Schultes.
Muddy places, common.
2. **E. tenuis**, Schultes.
Muddy places.

Genus 4. **SCIRPUS**, L. Bulrush. Club Rush.

1. **S. pungens**, Vahl.
Muddy borders of streams, not common.
2. **S. validus**, Vahl. Great Bulrush. Lake Rush.
Ponds and muddy places, rare.
3. **S. atrovirens**, Muhl.
Wet meadows, common.
4. **S. lineatus**, Mich.
Wet grounds, common.
5. **S. Eriophorum**, Michx.
Wet places, common.

Genus 5. **FIMBRISTYLIS**, Vahl.

1. **F. autumnalis**, Rœm. & Schult.
Moist ground.

Genus 6. **CAREX**, L. Sedge.

1. **C. vulpinoidea**, Michx.
Common.
2. **C. crus-corvi**, Shuttleworth.
Not rare.
3. **C. stipata**, Muhl.
Abundant.
4. **C. cephalophora**, Muhl.
Common.
5. **C. rosea**, Schk.
Meadows, common.
6. **C. arida**, Schw. & Torr.
Fields and meadows, not rare.
7. **C. scoparia**, Schk.
Fields and wet places, common.
8. **C. fœnea**, Willd.
Sandy soil, rare.
9. **C. straminea**, Schk.
Fields and woods, common.
10. **C. Shortiana**, Dew.
Muddy ponds, rare.
11. **C. tetanica**, Schk.
Moist borders of ponds and streams, common.
12. **C. conoidea**, Schk.
Meadows, rare.
13. **C. laxiflora** var. **blanda**, Gray.
Sandy and shaded places, abundant.
14. **C. intumescens**, Rudge.
Moist places, abundant.
15. **C. Grayii**, Carey.
Alluvial soil, common.
16. **C. squarrosa**, L.
Low grounds.
17. **C. retrorsa**, Schw.
Wet borders.
18. **C. gigantea**, Rudge.
Cypress swamp.
19. **C. monile**, Tuckerman.
Cypress swamp.

ORDER 103. **GRAMINEÆ**. GRASS FAMILY.Genus 1. **LEERSIA**, Solander. White Grass.

1. **L. Virginica**, Willd.
Prairies, not rare.
2. **L. oryzoides**, Swartz.
Very wet places, not common.

Genus 2. **ZIZANIA**, Gronov. Water or Indian Rice.

1. **Z. aquatica**, L. Indian Rice. Water Oats.
Shallow ponds, not rare.

Genus 3. **PHELEUM**, L. Cat's tail Grass.

1. **P. pratense**, L. Timothy. Herd's Grass.
Fields and woods, common. Nat. from Eu.

Genus 4. **SPOROBOLUS**, R. Br. Drop-seed Grass.

1. **S. heterolepis**, Gray.
Moist prairies, not common.

Genus 5. **AGROSTIS**, L. Bent Grass.

1. **A. scabra**, Willd, Hair Grass.
Open woods, common.
2. **A. vulgaris**, With. Red Top. Herd's Grass.
Fields and woods, common. Nat. from Eu.
3. **A. alba**, L. Fiorin or White Bent Grass.
About fields, common.

Genus 6. **CINNA**, L. Wood Reed Grass.

1. **C. arundinacea**, L.
Moist prairies, rare.

Genus 7. **MUHLENBERGIA**, Schreber. Drop-seed.

1. **M. Mexicana**, Trin.
Low grounds, common.

Genus 8. **BRACHYELYTRUM**, Beauv.

1. **B. aristatum**, Beauv.
Hilly woods, rare.

Genus 9. **ARISTIDA**, L. Triple-awned Grass.

1. **A. ramosissima**, Englm.
Dry prairies and roadsides, not common.
2. **A. dichotoma**, Michx. Poverty Grass.
Roadsides and dry gravelly prairies, common.
3. **A. oligantha**, Michx.
Dry soil, not common.

Genus 10. **DACTYLOCTENIUM**, Willd. Egyptian Grass.

1. **D. Ægyptiacum**, Willd.
Fields and door yards, not rare. Nat. from Africa?

Genus 11. **ELEUSINE**, Gært. Crab Grass. Yard Grass.

1. **E. Indica**, Gært. n.
About dwellings, common. Nat from India?

Genus 12. **TRICUSPIS**, Beauv.

1. **T. seslerioides**, Torr. Tall Red-top.
Rich grounds and fence rows, common.

Genus 13. **DIARRHENA**, Raf.

1. **D. Americana**, Beauv.
Shaded woods, rare.

Genus 14. **DACTYLIS**. Orchard Grass.

1. **D. glomerata**, L.
About fields, rare. Nat. from Eu.

Genus 15. **KCELERIA**. Pers.

1. **K. cristata**, Pers.
Along fence-rows in dry, hilly places.

Genus 16. **ETONIA**, Raf.

1. **E. Pennsylvanica**, Gray.
Woods and meadows, common.

Genus 17. **GLYCERIA**, R. Br., Trin. Manna-Grass.

1. **G. fuitans**, R. Br.
Wet places, rare.

Genus 18. **POA**, L. Meadow-Grass. Spear-Grass.

1. **P. pratensis**, L. Kentucky Blue-Grass.
Pastures, fields and door-yards, common.

Genus 19. **ERAGROSTIS**, Beauv.

1. **E. reptans**, Nees.
Prairies and moist places, common.
2. **E. poæoides**, Beauv.
About dwellings and fields, not rare. Nat. from Eu.
3. **E. pilosa**, Beauv.
Gravelly soil, rare. Nat. from Eu.
4. **E. Frankii**, Meyer.
Prairies and open grounds, common.
5. **E. tenuis**, Gray.
Dry soil, not common.
6. **E. pectinacea**, Gray.
Dry soil, not common.

Genus 20. **FESTUCA**, L. Fescue-Grass.

1. **F. elatior**, L. Taller or Meadow Fescue.
Moist prairies, scarce.
2. **F. nutans**, Willd.
Open woods and bluffs.

Genus 21. **BROMUS**, L. Brome-Grass.

1. **B. secalinus**, L. Cheat. Chess.
Fields, fence-rows and borders of woods. Nat. from Eu.
The great enemy of the farmer.
2. **B. racemosus**, L. Upright Chess.
About fields, rare. Nat. from Eu.
3. **B. Kalmii**, Gray: Wild Chess.
Dry open grounds, rare.

Genus 22. **UNIOLA**, L. Spike-Grass. Union-Grass.

1. **U. latifolia**, Michx.
Shaded moist places, not common.

Genus 23. **PHRAGMITES**, Trin. Reed.

1. **P. communis**, Trin.
Wet prairies, not rare. Have found specimens 19 feet high.

Genus 24. **ARUNDINARIA**, Michx. Cane.

1. **A. tecta**, Muhl. Small Cane.
Moist shaded alluvial soil, common.

Genus 25. **HORDEUM**, L. Barley.

1. **H. pratense**, Huds.
Moist grounds, rare.

Genus 26. **ELYMUS**, L. Lyme-Grass. Wild Rye.

1. **E. Virginicus**, L.
Shaded banks, common.
2. **E. Canadensis**, L.
Woods and fields, not rare. June, July.
3. **E. striatus**, Willd.
Shaded woods, scarce.
4. **E. striatus** var. **villosus**, Gray.
Rocky bluffs, rare.

Genus 27. **GYMNOSTICHUM**, Schreb. Bottle-brush Grass.

1. **G. Hystrix**, Schreb. Wild Rye.
Woods and about fields, common. June, Aug.

Genus 28. **PHALARIS**, L. Canary Grass.

1. **P. Canariensis**, L. Canary-seed Grass.
About dwellings, from seeds scattered from bird cages. June,
Sept. Adv. from Eu.
2. **P. arundinacea**, L. Reed Canary Grass.
Wet shaded places, rare.

Genus 29. **PASPALUM**, L.

1. **P. setaceum**, Michx.
Sandy places, not rare. Aug., Sept.

Genus 30. **PANICUM**, L. Panic Grass.

1. **P. sanguinale**, L. Common Crab Grass. Finger Grass.
Too common. Nat from Eu.
2. **P. agrostoides**, Spreng.
Moist places, rare.
3. **P. capillare**, L. Old-witch Grass.
Fields and woods, common.
4. **P. virgatum**, L.
Moist prairies, rare. July, Aug.

5. **P. latifolium**, L.
Fence-rows and thickets, common.
6. **P. clandestinum**, L.
Prairies and fence rows, not rare.
7. **P. dichotomum**, L.
Dry rich grounds, not abundant.
8. **P. Crus-galli**, L. Barnyard Grass.
Moist places in fields and woods. Nat. from Eu.
9. **P. Crus-galli** var. **hispidum**, Gray.
About fields, rare. Nat. from Eu.

Genus 31. **SETARIA**, Beauv. Bristly Fox-tail Grass.

1. **S. glauca**, Beauv. Fox-tail.
Abundant, especially in stubble. Nat. from Eu.
2. **S. Italica**, Kunth. Millet. Bengal Grass.
Escaped from cultivation, rare. Adv. from Eu.

Genus 32. **CENCHRUS**, L. Hedgehog Grass. Bur Grass.

1. **C. tribuloides**, L.
Sandy soil, not abundant, happily.

Genus 33. **ANDROPOGON**, L. Beard Grass.

1. **A. furcatus**, Muhl. Forked Spike.
Prairies and fence rows, common.

ORDER 104. **EQUISETACEÆ.** HORSE-TAIL FAMILY.

Genus 1. **EQUISETUM**, L. Horse-tail.

1. **E. arvense**, L. Common Horse-tail.
River banks, rare.
2. **E. hyemale**, D. Scouring Rush. Shave Grass.
Sandy bluffs, common.

ORDER 105. **FILICES.** FERNS.

Genus 1. **POLYPODIUM**, L. Polypody.

1. **P. incanum**, Swartz.
On rocky bluffs and trunks of trees, common.

Genus 2. **ADIANTUM**, L. Maiden-hair.

1. **A. pedatum**, L. Maiden-hair Fern.
Moist shaded places, common.

Genus 3. **PTERIS**, L. Brake. Bracken.

1. **P. aquilina**, L. Common Brake.
Thickets and woods, rare.

Genus 4. **CHEILANTHES**, Swartz. Lip Fern.

1. **C. vestita**, Swartz.
Rocky bluffs, rare.

Genus 5. **PELLÆA**, Link. Cliff-Brake.

1. **P. atropurpurea**, Link.
Rocky cliffs, rare.

Genus 6. **ASPLENIDIUM**, L. Spleenwort.

1. **A. pinnatifidum**, Nutt.
Rocky bluffs, rare.
2. **A. Trichomanes**, L.
Shaded hillsides, not rare.
3. **A. ebeneum**, Ait.
Rocky banks and bluffs, common.
4. **A. angustifolium**, Michx.
Rich shaded woods, common.
5. **A. thelypteroides**, Michx.
Rich woods, common.
6. **A. Filix-fœmina**, Bernh.
Moist woods, rare.

Genus 7. **CAMPTOSORUS**, Link. Walking-Leaf.

1. **C. rhizophyllus**, Link.
Rocky bluffs and cliffs, not rare.

Genus 8. **PHEGOPTERIS**, Fee. Beech-Fern.

1. **P. hexagonoptera**, Fee.
Woods, very common.

Genus 9. **ASPIDIDIUM**, Swartz. Shield-Fern. Wood-Fern.

1. **A. Thelypteris**, Swartz.
Wet places, common.
2. **A. Noveboracense**, Swartz.
Moist places, not rare.
3. **A. acrostichoides**, Swartz.
Woods and hillsides, abundant. Fronds often remain green all winter.

Genus 10. **CYSTOPTERIS**, Bernh. Bladder-Fern.

1. **C. fragilis**, Bernh.
Shaded rocky cliffs, common.

Genus 11. **ONOCLEA**, L. Sensitive Fern.

1. **O. sensibilis**, L.
Moist rich places and thickets, common.

Genus 12. **WOODSIA**, R. Brown.

1. **W. obtusa**, Torr.
Rocky banks, rare.

Genus 13. **DICKSONIA**, L'Her.

1. **D. punctilobula**, Kunze.
Moist places, rare.

Genus 14. **OSMUNDA**. Flowering Fern.

1. **O. regalis**, L. Flowering Fern.
Moist places, not common.
2. **O. Claytoniana**, L. Interrupted Fern.
Shaded steep banks, rare.

Genus 15. **BOTRYCHIUM**, Swartz. Moonwort.

1. **B. Virginicum**, Swartz. Rattle-snake Fern.
Shaded woods, scarce.
2. **B. lunarioides**, Swartz.
Rich woods, rare.

Genus 16. **OPHIOGLOSSUM**, L. Adder's-Tongue.

1. **O. vulgatum**, L.
Moist woods, very rare.

ORDER 106. LYCOPODIACEÆ. CLUB-MOSS FAMILY.Genus 1. **SELAGINELLA**, Beauv.

1. **S. rupestris**, Spring.
Dry rocky places, rare.
2. **S. apus**, Spring.
Moist shaded places, rare.

ORDER 107. CHARACEÆ. CHARA FAMILY.Genus 1. **CHARA**.

1. **C. polyphylla**.
In Wabash river, rare.