

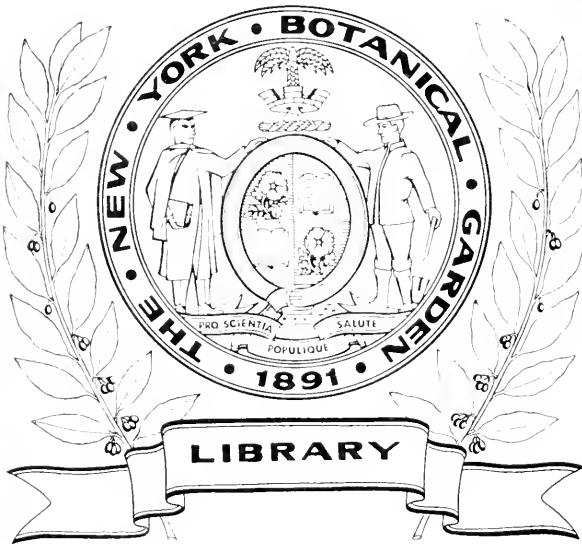
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Catalog of Ohio vascular plants

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Catalog of

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OHIO BIOLOGICAL SURVEY

CATALOG OF OHIO VASCULAR PLANTS

Arranged according to the phyletic classification; with notes on the geographical distribution in the state, based mainly on specimens in the State Herbarium, Botanical Laboratory, The Ohio State University.

By

JOHN H. SCHAFFNER, M. A., M. S.

Published by
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CAL LABORATORY OF THE OHIO
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PREFACE

This catalog of the vascular plants of Ohio is based on specimens for the most part in the State Herbarium of the Ohio State University, although some records have also been obtained from other collections. The State Herbarium is at present a collection of about 30,000 sheets, and represents the labors of many Ohio botanists. The distribution by counties is in many cases not the known distribution, but it was thought advisable to give only such data as could be verified by specimens. A list* of 254 species and varieties was published with a view to their exclusion from the state catalog if no evidence of their presence in the state were forthcoming. As a result of this publication, numerous records and specimens were obtained. The present catalog contains 2065 numbered species, about one-fourth of which are non-indigenous. Three additional species have been inserted in their proper places since the list was numbered for publication. A considerable number of varieties and supposed hybrids are also included.

“The Fourth State Catalogue of Ohio Plants,” by W. A. Kellerman, 1899, was based on specimens in the State Herbarium at that time. However, a large number of species was included for which there was no direct evidence. Most of these, together with some species wrongly identified, have been omitted. A large list of contributors of specimens from various parts of the state was published in the “Fourth Catalogue.” Many of these have greatly increased their collections in the State Herbarium and a number of other botanists have sent important specimens.

The species in the State Herbarium have been carefully determined, in the more difficult groups by the best experts in the country, and it is believed that there are few mistakes in the list as now published. Any errors, however, can be definitely corrected in the future. Several species became uncertain through the shifting of names and have been omitted until more and better material can be studied.

The species are numbered serially, and the varieties, forms, and supposed hybrids are indicated by letters. Additions of species will

*Plants on the Ohio State list not represented in the State Herbarium. Ohio Nat. 9: 413-415.

be made by means of the decimal system. For example, if a new species is to be added after No. 1866, it will be numbered 1866.1. Additions will only be made on the basis of good herbarium specimens. It is much better to have a small, reliable list than a large one with many doubtful entries. The introduced species have been designated by some phrase by which they can be distinguished from the indigenous species.

The nomenclature used is that of Britton and Brown's "An Illustrated Flora of the Northern United States, Canada, and the British Possessions," second edition. The few names which differ because of a different conception of the genus will cause no special trouble in reference. "Kellerman's Fourth State Catalogue of Ohio Plants" was based on the first edition of the "Illustrated Flora," and thus the names following the "American Code" on the principle of priority have been used very generally in Ohio since that time. The author sees no reason for abandoning the principle of priority at the present stage of progress of botanical knowledge.

The arrangement of the species and larger groups follows strictly the phyletic classification. The time has come when taxonomy must readjust itself to the more modern conceptions in regard to morphology and evolution.

The map of Ohio by counties will enable one to see, at a glance, the distribution indicated, and whether a given species is considered rare or unusual in any locality. It will now be possible to concentrate attention on the exact distribution of our more interesting plants and in the near future data should be at hand to definitely delimit the natural plant regions of the state. When this can be done, a considerable advance will have been made in the knowledge of the natural agricultural and horticultural regions of Ohio.

A number of useful lists have been published in the past which are still available. Among these may be mentioned the following:

Poisonous and Other Injurious Plants of Ohio. Ohio Nat. 4: 16-19; 32-35; 69-73. 1903-1904. By the author.

Medicinal Plants of Ohio. Ohio Nat. 10: 55-60; 73-85. 1910. By Freda Detmers.

The Non-Indigenous Flora of Ohio. Univ. Bull. Series 4, No. 27. 1900. By W. A. Kellerman and Mrs. Kellerman.

To the many botanists and collectors who have aided in the preparation of this catalog during the past five years, the author wishes to express his hearty thanks. It is hoped that all who take an interest in Ohio plants will continue to send collections and rare specimens to the State Herbarium. In this way alone can a truly great collection be accumulated.

J. H. SCHAFFNER,

Department of Botany, The Ohio State University.

January 1, 1914.

Phylum, PTENOPHYTA

Class, FILICES. Ferns.

Subclass, EUSPORANGIATAE.

Order, *Ophioglossales*.

Ophioglossaceae. Adder-tongue Family.

1. *Ophioglossum vulgatum* L. Adder-tongue. Rather generally distributed but local.
2. *Botrychium simplex* Hitch. Little Grape-fern. Cedar Point, Erie County.
3. *Botrychium neglectum* Wood. Wood's Grape-fern. Northern counties.
4. *Botrychium lanceolatum* (Gmel.) Angs. Lanceleaf Grape-fern. Geauga, Portage.
5. *Botrychium obliquum* Muhl. Oblique Grape-fern. General.
6. *Botrychium dissectum* Spreng. Cutleaf Grape-fern. General.
7. *Botrychium virginianum* (L.) Sw. Virginia Grape-fern. General and common.

Subclass, LEPTOSPORANGIATAE.

Order, *Filicales*.

Osmundaceae. Royal-fern Family.

8. *Osmunda regalis* L. Royal-fern. General.
9. *Osmunda claytoniana* L. Clayton's Fern. General.
10. *Osmunda cinnamomea* L. Cinnamon-fern. General.
- 10a. *Osmunda cinnamomea frondosa* Gr. Wayne County.

Polypodiaceae. Polypody Family.

Subfamily, POLYPODIATAE.

11. *Polypodium vulgare* L. Common Polypody. General in the eastern half of the state.
12. *Polypodium polypodioides* (L.) Hitch. Gray Polypody. Adams, Hamilton.
13. *Phegopteris phegopteris* (L.) Und. (*Dryopteris phegopteris* (L.) Chr.) Long Beech-fern. Rather general but apparently local.

14. *Phegopteris hexagonoptera* (Mx.) Fee. (*Dryopteris hexagonoptera* (Mx.) Chr). Broad Beech-fern. General.
15. *Phegopteris dryopteris* (L.) Fee. (*Dryopteris dryopteris* (L.) Britt). Oak-fern. Geauga, Lake, Ashtabula, Wayne, Summit.

Subfamily, PTERIDATAE.

16. *Adiantum pedatum* L. Maiden-hair-fern. General and common.
- 16a. *Adiantum pedatum laciniatum* Hopkins. Wayne County.
17. *Pteridium aquilinum* (L.) Kuhn. Eagle-fern. General.
18. *Pellaea atropurpurea* (L.) Link. Purple Cliff-brake. Ottawa, Stark, Franklin, Licking, Clark, Greene, Highland, Adams.

Subfamily, ASPLENIATAE.

19. *Anchistea virginica* (L.) Presl. Virginia Chain-fern. Ashtabula, Defiance, Geauga, Portage, Wayne, Williams.
20. *Asplenium pinnatifidum* Nutt. Pinnatifid Spleenwort. Mahoning, Licking, Fairfield, Hoeking, Lawrence.
21. *Asplenium platyneuron* (L.) Oakes. Ebony Spleenwort. General except in the northeastern fourth of the state.
- 21a. *Asplenium platyneuron* x *Camptosorus rhizophyllus* (*Asplenium ebenoides* Scott). Hoeking County.
22. *Asplenium resiliens* Kunze. Small Spleenwort. Adams County.
23. *Asplenium trichomanes* L. Maidenhair Spleenwort. General except in the northwestern fourth of the state.
24. *Asplenium pycnocarpon* Spreng. Narrow-leaf Spleenwort. General.
25. *Asplenium ruta-muraria* L. Wall-rue Spleenwort. Highland, Greene.
26. *Asplenium montanum* Willd. Mountain Spleenwort. Hoeking, Fairfield, Summit, Mahoning. (Tuscarawas—Hopkins.)
27. *Athyrium thelypteroides* (Mx.) Desv. Silvery Spleenwort. General.
28. *Athyrium filix-foemina* (L.) Roth. Lady-fern. General.
29. *Camptosorus rhizophyllus* (L.) Link. Walking-fern. General.

Subfamily, DRYOPTERIDATAE.

30. *Dryopteris noveboracensis* (L.) Gr. New York Shield-fern. General.

31. *Dryopteris thelypteris* (L.) Gr. Marsh Shield-fern. General.
32. *Dryopteris cristata* (L.) Gr. Crested Shield-fern. General.
- 32a. *Dryopteris cristata* x *spinulosa*. Wayne, Portage.
- 32b. *Dryopteris cristata* x *intermedia*. (*D. bootii* (Tuck.) Und.).
Wayne, Geauga, Portage.
33. *Dryopteris clintoniana* (Eat.) Dow. Wayne, Geauga.
- 33a. *Dryopteris clintoniana* X *spinulosa*. Wayne County.
34. *Dryopteris goldiana* (Hook.) Gr. Goldie's Shield-fern. Rather
general, but no specimens from the southern third of the
state, nor from the northwestern counties.
35. *Dryopteris intermedia* (Muhl.) Gr. American Shield-fern.
Rather general.
- 35a. *Dryopteris intermedia* x *marginalis*. Wayne County—Hopkins.
36. *Dryopteris spinulosa* (Muell.) Ktz. Spinulose Shield-fern. Gen-
eral.
37. *Dryopteris dilatata* (Hoffm.) Gr. Spreading Shield-fern. Tus-
carawas County.
38. *Dryopteris marginalis* (L.) Gr. Marginal Shield-fern. General
and common.
39. *Polystichum acrostichoides* (Mx.) Schott. Christmas-fern. Gen-
eral.
- 39a. *Polystichum acrostichoides schweinitzii* (Beck) Small. Wayne
County.
40. *Dennstaedtia punctilobula* (Mx.) Moore. Boulder-fern. In the
southern and eastern parts of the state. (Eric County—
Moseley Herb.)
41. *Filix bulbifera* (L.) Und. Bulbiferous Bladder-fern. (*Cys-*
topteris.) General, but no specimens from the northwest.
42. *Filix fragilis* (L.) Und. Fragile Bladder-fern. General and
common.
- 42a. *Filix fragilis magnasora* (Clute). Tuscarawas County.
- 42b. *Filix fragilis cristata* (Hopkins). Portage County.
43. *Woodsia obtusa* (Spreng.) Torr. Blunt-lobed Woodsia. In the
southern half of the state.
44. *Matteuccia struthiopteris* (L.) Todaro. Ostrich-fern. Cuya-
hoga, (Eric County—Moseley Herb.).
45. *Oncoclea sensibilis* L. Sensitive-fern. General and common.

Class, HYDROPTERIDAE. Water-ferns.

Order, *Marsileales*.**Marsileaceae.** Marsilea Family.

46. *Marsilea quadrifolia* L. European Marsilea. A waif in Franklin County.

Order, *Salviniales*.**Salviniaceae.** Salvinia Family.

47. *Azolla caroliniana* Willd. Carolina Azolla. Hamilton, Lucas, Lake.

Class, ISOETEAEE. Quillworts.

Order, *Isoetales*.**Isoetaceae.** Quillwort Family.

48. *Isoetes braunii* Durieu. Braun's Quillwort. Lake Brady, Portage County—Hopkins.
49. *Isoetes foveolata* Eat. Pitted Quillwort. Lake Brady, Portage County—Hopkins.

Phylum, CALAMOPHYTA

Class, EUISETEAEE. Horsetails and Scouring-rushes.

Order, *Equisetales*.**Equisetaceae.** Horsetail Family.

50. *Equisetum hyemale* L. Common Scouring-rush. General.
51. *Equisetum prealtum* Raf. Great Scouring-rush. (*E. robustum* A. Br.). General in the state.
52. *Equisetum variegatum* Schleich. Variegated Scouring-rush. Lake, Erie.
53. *Equisetum laevigatum* A. Br. Smooth Scouring-rush. General but apparently not common.
54. *Equisetum fluviatile* L. Swamp Horsetail. Not common but to be found in most parts of the state in suitable places.
55. *Equisetum sylvaticum* L. Wood Horsetail. Anglaize, Cuyahoga, Geauga.
56. *Equisetum pratense* Ehrh. Thicket Horsetail. Supposed to occur in the state but no definite specimens.
57. *Equisetum arvense* L. Field Horsetail. General and abundant.

Phylum, LEPIDOPHYTA

Class, LYCOPODIEAE. Lycopods.

Order, *Lycopodiales*.**Lycopodiaceae.** Club-moss Family.

58. *Lycopodium lucidulum* Mx. Shining Club-moss. General in the eastern half of the state.
59. *Lycopodium porophyllum* Lloyd & Und. Rock Club-moss. Licking, Fairfield, Hocking, Portage.
60. *Lycopodium inundatum* L. Bog Club-moss. Portage County.
61. *Lycopodium clavatum* L. Common Club-moss. Ashtabula, Cuyahoga, Geauga, Portage, Hocking, (Stark—Hopkins).
62. *Lycopodium obscurum* L. Tree Club-moss. Ashtabula, Lake, Medina, Portage, Licking, Defiance, Fairfield, Hocking.
63. *Lycopodium complanatum* L. Trailing Club-moss. Ashtabula, Cuyahoga, Carroll, Geauga, Licking, Fairfield, Hocking, Portage, Lake, (Eric—Moseley), (Wayne—Hopkins).

Class, SELAGINELLEAE. Selaginellas.

Order, *Selaginellales*.**Selaginellaceae.** Selaginella Family.

64. *Selaginella rupestris* (L.) Spring. Rock Selaginella. Licking, Fairfield, Hocking.
65. *Selaginella apus* (L.) Spring. Creeping Selaginella. Lake, Trumbull.

Phylum, STROBILOPHYTA

Class, CONIFERAE. Conifers.

Order, *Pinales*.**Pinaceae.** Pine Family.

66. *Tsuga canadensis* (L.) Carr. Hemlock. Eastern half of Ohio; occasional toward the west.
67. *Larix laricina* (DuRoi) Koch. Tamarack. Northern third of the state.
68. *Pinus strobus* L. White Pine. Northern part of Ohio.
69. *Pinus rigida* Mill. Pitch Pine. Lawrence, Scioto, Jackson, Fairfield.

70. *Pinus virginiana* Mill. Scrub Pine. From Licking County southward.
71. *Pinus cehinata* Mill. Yellow Pine. Auglaize County. Probably accidental from seed from cultivated trees. Not native.

Juniperaceae. Juniper Family.

Subfamily, CUPRESSATAE.

72. *Thuja occidentalis* L. Arborvitae. Champaign, Franklin, Greene, Highland, Adams.

Subfamily, JUNIPERATAE.

73. *Juniperus communis* L. Common Juniper. Northern Ohio, as far south as Fairfield County.
74. *Juniperus sibirica* Burgs. Low Juniper. Erie County.
75. *Juniperus virginiana* L. Red Juniper. General.

Order, *Taxales*.

Taxaceae. Yew Family.

76. *Taxus canadensis* Marsh. American Yew. Northern Ohio, as far south as Hoeking, Highland, and Greene Counties.

Phylum, ANTHOPHYTA

Class, MONOCOTYLAE. Monocotyls.

Subclass, HELOBIAE.

Order, *Alismales*.

Alismaceae. Water-plantain Family.

77. *Lophocarpus calycinus* (Eng.) Sm. Large Lophocarpus. Erie, Ottawa, Auglaize.
78. *Sagittaria latifolia* Willd. Broadleaf Arrow-head. General and abundant.
79. *Sagittaria emeata* Sheld. Arum-leaf Arrow-head. (Erie County—Moseley Herbarium.)
80. *Sagittaria rigida* Pursh. Sessile-fruited Arrow-head. Mostly in the northern counties.
81. *Sagittaria graminea* Mx. Grassleaf Arrow-head. Lucas County.
82. *Alisma subcordatum* Raf. American Water-plantain. General.

Scheuchzeriaceae. Arrow-grass Family.

83. *Triglochin palustris* L. Marsh Arrow-grass. Erie, Madison.
84. *Triglochin maritima* L. Seaside Arrow-grass. Summit, Stark, Clark, Champaign.
85. *Scheuchzeria palustris* L. Scheuchzeria. Licking, Ashtabula.

Potamogetonaceae. Pondweed Family.

86. *Potamogeton natans* L. Common Floating Pondweed. General.
87. *Potamogeton amplifolius* Tuck. Large-leaf Pondweed. Wayne, Stark, Summit, Erie.
88. *Potamogeton epihydrus* Raf. Nuttall's Pondweed. Trumbull, Wayne.
89. *Potamogeton americanus* Cham. & Schl. Longleaf Pondweed. Rather general.
90. *Potamogeton heterophyllus* Schreb. Variant-leaf Pondweed. Ottawa, Erie, Wayne, Stark, Ashtabula.
91. *Potamogeton angustifolius* Berch & Presl. Narrowleaf Pondweed. Wayne County.
92. *Potamogeton lucens* L. Shining Pondweed. Summit, Cuyahoga, Wayne, Erie.
93. *Potamogeton praelongus* Wulf. White-stem Pondweed. Ashtabula, Wayne.
94. *Potamogeton perfoliatus* L. Claspingleaf Pondweed. Erie, Summit.
95. *Potamogeton compressus* L. Eel-grass Pondweed. Perry, Logan, Erie, Stark.
96. *Potamogeton hillii* Mor. Hill's Pondweed. (Ottawa County—Moseley Herbarium.)
97. *Potamogeton foliosus* Raf. Leafy Pondweed. General.
98. *Potamogeton obtusifolius* Mert. & Koch. Bluntleaf Pondweed. Medina County.
99. *Potamogeton friesii* Rupr. Fries' Pondweed. (Erie County—Moseley Herbarium.)
100. *Potamogeton pusillus* L. Small Pondweed. Erie, Auglaize, Fairfield, Perry, Summit.
101. *Potamogeton diversifolius* Raf. Rafinesque's Pondweed. Ashtabula, Portage.

102. *Potamogeton pectinatus* L. Fennel-leaf Pondweed. General.
 103. *Potamogeton interruptus* Kit. Interrupted Pondweed. Erie County.
 104. *Potamogeton robbinsii* Oakes. Robbins' Pondweed. Erie, Summit.
 105. *Zannichellia palustris* L. Zannachellia. General.

Naiadaceae. Naias Family.

106. *Naias flexilis* (Willd.) Rost. & Schmidt. Slender Naias. General.
 107. *Naias gracillima* (A. Br.) Magnus. Thread-like Naias. Wayne County.

Order, *Nymphaeales*.

Nymphaeaceae. Water-lily Family.

Subfamily, *CABOMBATAE*.

108. *Brasenia schreberi* Gmel. Water-shield. Geauga, Summit, Portage, Stark, Wayne.

Subfamily, *NELUMBONATAE*.

109. *Nelumbo lutea* (Willd.) Pers. American Water-lotus. Licking, Perry, Erie, Anglaize.

Subfamily, *NYMPHAEATAE*.

110. *Nymphaea advena* Sol. Large yellow Water-lily. General.
 111. *Castalia odorata* (Dry.) W. & W. Sweet-scented White Water-lily. Rather general.
 112. *Castalia tuberosa* (Paine) Greene. Tuberos White Water-lily. Erie, Holmes, Licking.

Order, *Hydrocharitales*.

Vallisneriaceae. Tape-grass Family.

113. *Philotria canadensis* (Mx.) Britt. Common Water-weed. General.
 114. *Philotria minor* (Eng.) Small. Lesser Water-weed. No specimens.
 115. *Vallisneria spiralis* L. Tape-grass. Shelby, Fairfield, Stark, Summit, Geauga, Erie.

Subclass, SPADICIFLORÆ.

Order, *Pandanales*.**Sparganiaceae.** Bur-reed Family.

116. *Sparganium eurycarpum* Eng. Broad-fruited Bur-reed. General.
117. *Sparganium androcladum* (Eng.) Morong. Branching Bur-reed. Franklin, Auglaize, Lucas.
118. *Sparganium lucidum* Fern. & Eames. Shining-fruited Bur-reed. Richland County.
119. *Sparganium simplex* Huds. Simple-stemmed Bur-reed. (Eric County—Moseley Herbarium.)

Typhaceae. Cat-tail Family.

120. *Typha latifolia* L. Broad-leaf Cat-tail. General.
121. *Typha angustifolia* L. Narrow-leaf Cat-tail. Auglaize, Licking, Knox, Erie, Cuyahoga, Geauga.

Order, *Arales*.**Araceae.** Arum Family.

Subfamily, POTHATAE.

122. *Acorus calamus* L. Sweet-flag. General.

Subfamily, CALLATAE.

123. *Calla palustris* L. Wild Calla. Ashtabula, Portage, Summit, Stark.
124. *Spathyema foetida* (L.) Raf. Skunk-cabbage. General.

Subfamily, PHILODENDRATAE.

125. *Peltandra virginica* (L.) Kunth. Green Arrow-arum. Cuyahoga, Summit, Stark, Licking, Perry.

Subfamily, ARATAE.

126. *Arisaema triphyllum* (L.) Torr. Jack-in-the-pulpit. General.
127. *Arisaema dracontium* (L.) Schott. Green-dragon. General.

Lemnaceae. Duckweed Family.

128. *Spirodela polyrrhiza* (L.) Schl. Greater Duckweed. General.

129. *Lemna trisulca* L. Ivy-jointed Duckweed. General.
130. *Lemna cyclostasa* (Ell.) Chev. Valdivia Duckweed. Lake County.
131. *Lemna minor* L. Lesser Duckweed. General.
132. *Wolffiella floridiana* (J. D. Sm.) Thomp. Florida *Wolffiella*. Licking County.
133. *Wolffia columbiana* Karst. Columbia *Wolffia*. Ottawa, Franklin.
134. *Wolffia punctata* Griseb. Punctate *Wolffia*. Erie County.

Subclass, GLUMIFLORÆ.

Order, *Graminales*.

Cyperaceae. Sedge Family.

Subfamily, SCIRPATAE.

135. *Cyperus schweinitzii* Torr. Schweinitz's *Cyperus*. Erie, Cuyahoga.
136. *Cyperus esculentus* L. Nut-grass (*Cyperus*). Western half of state, as far east as Wayne County.
137. *Cyperus erythrorhizos* Muhl. Red-rooted *Cyperus*. Rather general.
138. *Cyperus inflexus* Muhl. Awned *Cyperus*. Lucas, Champaign.
139. *Cyperus strigosus* L. Straw-colored *Cyperus*. General.
140. *Cyperus filiculmis* Vahl. Slender *Cyperus*. Rather general.
141. *Cyperus engelmanni* Steud. Engelmann's *Cyperus*. Wayne, Logan.
142. *Cyperus speciosus* Vahl. Michaux's *Cyperus*. Ashtabula, Erie.
143. *Cyperus flavescens* L. Yellow *Cyperus*. Fairfield, Richland, Meigs.
144. *Cyperus diandrus* Torr. Low *Cyperus*. Northern half of state, as far south as Champaign County.
145. *Cyperus rivularis* Kunth. Shining *Cyperus*. Rather general.
146. *Kyllinga pumila* Mx. Low *Kyllinga*. Fairfield, Hocking, Cuyahoga, Auglaize.
147. *Dulichium arundinaceum* (L.) Britt. *Dulichium*. Northern part of the state, south to Hocking and Clark Counties.
148. *Eleocharis mutata* (L.) R. & S. Four-angled Spike-rush. Ashland County.

149. *Eleocharis olivacea* Torr. Olivaceous Spike-rush. Auglaize, Licking, Summit, Cuyahoga.
150. *Eleocharis ovata* (Roth) R. & S. Ovoid Spike-rush. Erie County.
151. *Eleocharis obtusa* (Willd.) Schul. Blunt Spike-rush. General.
152. *Eleocharis engelmanni* Steud. Engelmann's Spike-rush. Licking County.
153. *Eleocharis palustris* (L.) R. & S. Creeping Spike-rush. General.
154. *Eleocharis acicularis* (L.) R. & S. Needle Spike-rush. General.
155. *Eleocharis tenuis* (Willd.) Schultes. Slender Spike-rush. Lucas, Ottawa.
156. *Eleocharis acuminata* (Muhl.) Nees. Flat-stemmed Spike-rush. Lucas, Ottawa, Auglaize.
157. *Eleocharis intermedia* (Muhl.) Schultes. Matted Spike-rush. Erie, Franklin.
158. *Stenophyllus capillaris* (L.) Britt. Hair-like *Stenophyllus*. Lucas County.
159. *Fimbristylis autumnalis* (L.) R. & S. Slender *Fimbristylis*. Hamilton, Defiance, Fairfield, Hocking.
160. *Scirpus cyperinus* (L.) Kunth. Wool-grass. General.
161. *Scirpus lineatus* Mx. Reddish Bulrush. General.
162. *Scirpus polyphyllus* Vahl. Leafy Bulrush. Eastern half of the state to Crawford and Adams Counties.
163. *Scirpus atrovirens* Muhl. Dark-green Bulrush. General.
164. *Scirpus sylvaticus* L. Wood Bulrush. Ottawa, Wayne, Hamilton.
165. *Scirpus fluviatilis* (Torr.) Gr. River Bulrush. Champaign, Licking, Lucas, Wayne, Medina, Lake.
166. *Scirpus validus* Vahl. Great Bulrush. General.
167. *Scirpus torreyi* Olney. Torrey's Club-rush. Lake, Erie.
168. *Scirpus americanus* Pers. Chair-maker's Club-rush. General.
169. *Scirpus debilis* Pursh. Weak Club-rush. Summit, Ottawa.
170. *Scirpus planifolius* Muhl. Flat-leaf Club-rush. Licking, Knox, Lake.
171. *Eriophorum viridicarinatum* (Eng.) Fern. Thin-leaf Cotton-grass. Geauga, Summit, Licking.
172. *Eriophorum virginicum* L. Virginia Cotton-grass. Northern Ohio, as far south as Licking County.

Subfamily, RYNCHOSPORATAE.

173. *Rynchospora corniculata* (Lam.) Gr. Horned-rush. None in the herbarium.
174. *Rynchospora alba* (L.) Vahl. White Beaked-rush. Geauga, Lorain, Summit, Ashland, Stark, Licking, Champaign.
175. *Rynchospora capillacea* Torr. Capillary Beaked-rush. Madison, Greene, Champaign, Erie.
176. *Rynchospora glomerata* (L.) Vahl. Clustered Beak-rush. Erie, Ashtabula, Portage, Summit, Fairfield.
177. *Rynchospora cymosa* Ell. Grass-like Beak-rush. Erie County.
178. *Mariscus mariscoides* (Muhl.) Kuntze. Twig-rush. Erie County.
179. *Seleria triglomerata* Mx. Tall Nut-rush. Erie County.
180. *Seleria pauciflora* Muhl. Papillose Nut-rush. Erie County.
181. *Seleria verticillata* Muhl. Low Nut-rush. Erie, Franklin, Champaign.

Subfamily, CARICATAE.

182. *Carex sartwellii* Dew. Sartwell's Sedge. Erie County.
183. *Carex siccata* Dew. Dry-spiked Sedge. No specimens. (Erie County—Moseley Herbarium.)
184. *Carex retroflexa* Muhl. Reflexed Sedge. From Erie, Huron, Wayne, Knox and Perry Counties westward.
185. *Carex rosea* Schk. Stellate Sedge. General.
186. *Carex muricata* L. Lesser Prickly Sedge. No specimens. (Erie County—Moseley Herbarium.) Naturalized from Europe.
187. *Carex muhlenbergii* Schk. Muhlenberg's Sedge. Carroll, Summit, Cuyahoga, Erie, Lucas.
188. *Carex cephalophora* Muhl. Oval-headed Sedge. General.
189. *Carex gravida* Bail. Heavy Sedge. No specimens.
190. *Carex cephaloidea* Dew. Thinleaf Sedge. Cuyahoga, Licking.
191. *Carex sparganioides* Muhl. Bur-reed Sedge. General.
192. *Carex conjuncta* Boott. Soft Fox Sedge. General, but no specimens from the eastern and southern counties.
193. *Carex vulpinoidea* Mx. Fox Sedge. General and abundant.
194. *Carex setacea* Dew. Bristly-spiked Sedge. Erie County.
195. *Carex diandra* Schr. Lesser Paniced Sedge. Lake County.
196. *Carex prairea* Dew. Prairie Sedge. Summit, Erie.
197. *Carex decomposita* Muhl. Large-paniced Sedge. Licking County.

198. *Carex stipitata* Muhl. Awl-fruited Sedge. General, but no specimens from the extreme southern and southeastern counties.
199. *Carex erus-corvi* Shuttlw. Raven-foot Sedge. Defiance, Auglaize, Wayne.
200. *Carex disperma* Dew. Soft-leaf Sedge. Erie County.
201. *Carex trisperma* Dew. Three-fruited Sedge. Lake, Portage, Summit, Williams.
202. *Carex canescens* L. Silvery Sedge. Summit, Lorain, Logan.
203. *Carex brumeseens* (Pers.) Poir. Brownish Sedge. Logan County.
204. *Carex deweyana* Schw. Dewey's Sedge. Auglaize County.
205. *Carex bromoides* Schk. Brome-like Sedge. Cuyahoga, Erie, Hancock, Hardin, Auglaize.
206. *Carex interior* Bail. Inland Sedge. Cuyahoga, Summit, Erie, Stark, Licking.
207. *Carex leersii* Willd. Little Prickly Sedge. Ottawa, Erie, Madison, Geauga, Portage.
208. *Carex scoparia* Schk. Pointed Broom Sedge. Northern Ohio, as far south as Auglaize, Madison and Tuscarawas Counties.
209. *Carex tribuloides* Wahl. Blunt Broom Sedge. General.
210. *Carex cristatella* Britt. Crested Sedge. General.
211. *Carex muskingumensis* Schw. Muskingum Sedge. Defiance, Auglaize, Wyandot, Franklin, Champaign.
212. *Carex bebbii* Olney. Bebb's Sedge. Franklin County.
213. *Carex straminea* Willd. Straw Sedge. Cuyahoga, Portage, Lucas, Williams.
214. *Carex normalis* Mack. Larger Straw Sedge. Hamilton, Auglaize, Wayne, Hancock, (Erie County—Moseley Herbarium).
215. *Carex festucacea* Schk. Fescue Sedge. Lake, Erie, Stark, Logan, Madison.
216. *Carex bicknellii* Britt. Bicknell's Sedge. Lake County, (Erie County—Moseley Herbarium).
217. *Carex alata* Torr. Broad-winged Sedge. Summit County.
218. *Carex albolutescens* Schw. Greenish-white Sedge. Champaign County.
219. *Carex foenea* Willd. Hay Sedge. Geauga County.
220. *Carex willdenovii* Schk. Willdenow's Sedge. Cuyahoga County.
221. *Carex jamesii* Schw. James' Sedge. General.
222. *Carex durifolia* Bail. Back's Sedge. No specimens.

223. *Carex leptalea* Wahl. Bristle-stalked Sedge. Lake, Cuyahoga, Summit, Madison.
224. *Carex communis* Bail. Fibrous-rooted Sedge. Summit County. (Erie County—Moseley Herbarium).
225. *Carex pennsylvanica* Lam. Pennsylvania Sedge. General.
226. *Carex varia* Muhl. Emmons' Sedge. From Erie, Madison, and Clermont Counties eastward.
227. *Carex hirtifolia* Mack. Pubescent Sedge. From Lake, Wayne, Delaware, and Greene Counties northwestward.
228. *Carex pedunculata* Muhl. Long-stalked Sedge. Lake, Cuyahoga, Geauga, Erie.
229. *Carex richardsonii* R. Br. Richardson's Sedge. (Erie County—Moseley Herbarium.)
230. *Carex eburnea* Boott. Bristle-leaf Sedge. Greene, Ottawa.
231. *Carex aurea* Nutt. Golden-fruited Sedge. Erie County.
232. *Carex meadii* Dew. Mead's Sedge. Erie County.
233. *Carex tetanica* Schk. Wood's Sedge. Geauga, Cuyahoga, Erie, Huron, Auglaize.
234. *Carex plantaginea* Lam. Plantain-leaf Sedge. Fairfield, Delaware, Huron, Lorain, Cuyahoga, Summit.
235. *Carex careyana* Torr. Carey's Sedge. Lorain County.
236. *Carex platyphylla* Car. Broadleaf Sedge. From Cuyahoga, Knox, Fairfield, and Hocking Counties eastward.
237. *Carex digitalis* Willd. Slender Wood Sedge. Rather general.
238. *Carex laxiculmis* Schw. Spreading Sedge. Lake, Cuyahoga, Auglaize, Franklin.
239. *Carex albursina* Sheld. White Bear Sedge. General.
240. *Carex blanda* Dew. Woodland Sedge. Rather general.
241. *Carex laxiflora* Lam. Loose-flowered Sedge. Rather general.
242. *Carex anceps* Muhl. Two-edged Sedge. Rather general.
243. *Carex shriveri* Britt. Shriver's Sedge. No specimens.
244. *Carex granularis* Muhl. Meadow Sedge. General, but no specimens from the southeastern counties.
245. *Carex crawei* Dew. Crawe's Sedge. Erie County.
246. *Carex oligocarpa* Schk. Few-fruited Sedge. Hamilton, Montgomery, Greene, Ross.
247. *Carex hitcheckiana* Dew. Hitchcock's Sedge. Butler, Highland, Auglaize.

248. *Carex conoidea* Schk. Field Sedge. Wood County.
249. *Carex amphibola* Steud. Narrow-leaf Sedge. Cuyahoga, Hardin, Auglaize.
250. *Carex grisea* Wahl. Gray Sedge. Rather general, but the only southern county represented is Lawrence.
251. *Carex glaucoidea* Tuck. Glaucous Sedge. Cuyahoga County.
252. *Carex gracillima* Schw. Graceful Sedge. Northern Ohio, as far south as Licking and Franklin Counties.
253. *Carex prasina* Wahl. Drooping Sedge. Trumbull, Cuyahoga, Crawford, Fairfield, Hamilton.
254. *Carex davisii* Schw. Davis' Sedge. Lake, Lorain, Wayne, Auglaize, Licking, Ross.
255. *Carex flexuosa* Muhl. Slender-stalked Sedge. Cuyahoga, Geauga, Lake.
256. *Carex arctata* Boott. Drooping Wood Sedge. Summit County, (Erie County—Moseley Herbarium).
257. *Carex virescens* Muhl. Ribbed Sedge. Northern Ohio, as far south as Geauga, Hoeking, and Auglaize Counties.
258. *Carex complanata* Torr. Hirsute Sedge. General.
259. *Carex scabrata* Schw. Rough Sedge. Lake, Cuyahoga, Summit.
260. *Carex limosa* L. Mud Sedge. No specimens.
261. *Carex paupercula* Mx. Bog Sedge. Licking County.
262. *Carex buxbaumii* Wahl. Brown Sedge. Lorain, Erie, Lucas.
263. *Carex shortiana* Dew. Short's Sedge. General; no specimens from the southeastern counties.
264. *Carex stricta* Lam. Tussock Sedge. From Trumbull, Madison, Champaign, and Auglaize Counties, northward.
265. *Carex haydeni* Dew. Hayden's Sedge. No specimens; (Moseley Herbarium—Erie County).
266. *Carex torta* Boott. Twisted Sedge. Cuyahoga, Erie, Hardin, Knox, Delaware, Franklin.
267. *Carex aquatilis* Wahl. Water Sedge. Auglaize, Lucas.
268. *Carex gynandra* Schw. Nodding Sedge. Harrison, Perry.
269. *Carex crinita* Lam. Fringed Sedge. General.
270. *Carex lacustris* Willd. Lake-bank Sedge. Northern Ohio, south to Summit, Morrow, and Logan Counties.
271. *Carex impressa* (Wright) Mack. Wright's Sedge. No specimens.
272. *Carex lanuginosa* Mx. Woolly Sedge. From Ashtabula, Franklin, Madison, Champaign, and Auglaize Counties northward.

273. *Carex lasiocarpa* Ehrh. Slender Sedge. Licking, Stark.
 274. *Carex trichocarpa* Muhl. Hairy-fruited Sedge. Lorain, Erie,
 Licking, Madison.
 275. *Carex atherodes* Spreng. Awned Sedge. Erie County.
 276. *Carex oederi* Retz. Green Sedge. Erie County.
 277. *Carex flava* L. Yellow Sedge. Lake County.
 278. *Carex folliculata* L. Long Sedge. Crawford, Portage.
 279. *Carex monile* Tuck. Necklace Sedge. Lake, Cuyahoga, Wayne,
 Lucas.
 280. *Carex vesicaria* L. Inflated Sedge. No specimens.
 281. *Carex rostrata* Stokes. Beaked Sedge. Licking, Geauga.
 282. *Carex tuckermanii* Dew. Tuckerman's Sedge. Northern Ohio,
 south to Auglaize, Franklin, and Perry Counties.
 283. *Carex retrorsa* Schw. Retorse Sedge. Lucas County.
 284. *Carex oligosperma* Mx. Few-seeded Sedge. Defiance County.
 285. *Carex lurida* Wahl. Sallow Sedge. General; no specimens from
 the northwestern counties.
 286. *Carex hystericina* Muhl. Porcupine Sedge. Rather general.
 287. *Carex pseudo-cyperus* L. Cyperus-like Sedge. Greene, Tusca-
 rawas, Wayne.
 288. *Carex comosa* Boott. Bristly Sedge. Northern part of the state,
 as far south as Champaign, Franklin, and Tuscarawas Coun-
 ties.
 289. *Carex frankii* Kunth. Frank's Sedge. General as far north as
 Auglaize, Knox, and Jefferson Counties; also in Wyandot,
 Erie, and Cuyahoga.
 290. *Carex squarrosa* L. Squarrose Sedge. General.
 291. *Carex typhina* Mx. Cat-tail Sedge. Lake, Cuyahoga, Morrow,
 Scioto.
 292. *Carex intumescens* Rudge. Bladder Sedge. Northern Ohio, as
 far south as Trumbull, Crawford, and Allen Counties.
 293. *Carex asa-grayi* Bail. Gray's Sedge. General.
 294. *Carex lupulina* Muhl. Hop Sedge. Rather general.
 295. *Carex lupuliformis* Sartw. Hop-like Sedge. Cuyahoga, Wayne,
 Marion.

Graminaceae. Grass Family.

Subfamily, POACEAE.

296. *Bromus brizaeformis* Fisch. & Mey. Awnless Chess. Intro-
 duced. Cuyahoga County.

297. *Bromus kalmii* Gr. Kalm's Chess. Franklin, Lucas.
298. *Bromus hordeaceus* L. Soft Chess. Introduced. Wayne, Lorain.
299. *Bromus secalinus* L. Common Chess. Naturalized. General and abundant.
300. *Bromus racemosus* L. Upright Chess. Naturalized. General and abundant.
301. *Bromus arvensis* L. Field Chess. Introduced. Franklin County.
302. *Bromus inermis* Leyss. Hungarian Brome-grass. Introduced. Wayne County.
303. *Bromus ciliatus* L. Fringed Brome-grass. Erie, Wayne, Franklin, Champaign, Hocking.
304. *Bromus purgans* L. Hairy Brome-grass. General.
305. *Bromus asper* Murr. Rough Brome-grass. No specimens. European.
306. *Bromus tectorum* L. Downy Brome-grass. Introduced. General and abundant.
307. *Bromus sterilis* L. Barren Brome-grass. Introduced. Licking, Sandusky, Cuyahoga.
308. *Melica nitens* Nutt. Tall Melic-grass. Erie County.
309. *Festuca elatior* L. Tall Fescue-grass. Introduced. General.
310. *Festuca nutans* Willd. Nodding Fescue-grass. General.
311. *Festuca ovina* L. Sheep Fescue-grass. From Europe. Erie, Franklin, Wayne.
312. *Festuca capillata* Lam. Filiform Fescue-grass. From Europe. Cuyahoga County.
313. *Festuca octoflora* Walt. Slender Fescue-grass. Ashtabula, Erie, Lucas, Ashland, Delaware, Licking, Lawrence.
314. *Festuca myuros* L. Rat-tail Fescue-grass. From Europe. Lake County.
315. *Panicularia acutiflora* (Torr) Ktz. Sharp-glumed Manna-grass. No specimens.
316. *Panicularia fluitans* (L.) Ktz. Floating Manna-grass. General as far south as Harrison, Perry, Franklin, and Anglaize Counties.
317. *Panicularia canadensis* (Mx.) Ktz. Rattlesnake Manna-grass. Ashtabula, Geauga, Portage, Cuyahoga, Lorain, Summit, Stark, Wayne.

318. *Panicularia torreyana* (Spreng.) Merr. Long Manna-grass. Ashtabula, Cuyahoga, Summit, Erie, Fairfield.
319. *Panicularia nervata* (Willd.) Ktz. Nerved Manna-grass. General.
320. *Panicularia grandis* (Wats.) Nash. Tall Manna-grass. Stark, Wayne.
321. *Panicularia pallida* (Torr.) Ktz. Pale Manna-grass. (Ottawa County—Moseley Herbarium.)
322. *Poa compressa* L. Flat-stemmed Blue-grass. From Europe. General and abundant.
323. *Poa trivialis* L. Rough-stalked Meadow-grass. From Europe. Crawford County.
324. *Poa debilis* Torr. Weak Spear-grass. (Erie County—Moseley Herbarium.)
325. *Poa triflora* Gilib. Fowl Meadow-grass. Fairfield, Geauga, Lawrence.
326. *Poa nemoralis* L. Wood Meadow-grass. Introduced. Lake County.
327. *Poa pratensis* L. Kentucky Blue-grass. General and abundant.
328. *Poa autumnalis* Muhl. Flexuous Spear-grass. Hocking County.
329. *Poa sylvestris* Gr. Sylvan Spear-grass. Rather general; no specimens from the northwestern counties.
330. *Poa alsodes* Gr. Grove Meadow-grass. Seneca, Franklin, Summit, Cuyahoga, Trumbull, Knox.
331. *Poa brachyphylla* Schult. Short-leaf Spear-grass. Lawrence, Perry, Medina, Cuyahoga, Trumbull.
332. *Poa annua* L. Annual Meadow-grass. From Europe. General.
333. *Dactylis glomerata* L. Orchard-grass. Naturalized. General; no specimens from the southeastern counties.
334. *Eragrostis pectinacea* (Mx.) Steud. Purple Love-grass. Lake, Cuyahoga, Erie, Auglaize.
335. *Eragrostis hypnoides* (Lam.) B. S. P. Creeping Love-grass. Rather general; no specimens from the central eastern counties.
336. *Eragrostis major* Host. Strong-scented Love-grass. Naturalized. General.
337. *Eragrostis purshii* Schrad. Pursh's Love-grass. Erie County.

338. *Eragrostis pilosa* (L.) Beauv. Tufted Love-grass. Rather general; no specimens from the northwestern counties. Naturalized.
339. *Eragrostis frankii* Steud. Frank's Love-grass. Rather general; no specimens from the southeastern nor from the northwestern counties.
340. *Eragrostis capillaris* (L.) Nees. Capillary Love-grass. Ottawa, Madison, Clinton.
341. *Sphenopholis obtusata* (Mx.) Scribn. Blunt-scaled Eaton-grass. No specimens.
342. *Sphenopholis pallens* (Spreng.) Scribn. Tall Eaton-grass. General.
343. *Sphenopholis nitida* (Spreng.) Scribn. Slender Eaton-grass. Cuyahoga, Knox, Licking, Fairfield, Hocking, Lawrence, Adams.
344. *Koeleria cristata* (L.) Pers. Crested Koeler-grass. Ottawa County.
345. *Korycarpus arundinaceus* Zea. American Korycarpus. Ross, Franklin, Anglaize, Highland.
346. *Tridens flava* (L.) Hitch. Tall Purple-top. Rather general; no specimens from the northwestern counties nor the extreme eastern part.
347. *Triplasis purpurea* (Walt.) Chapm. Purple Sand-grass. Ash-tabula, Cuyahoga, Erie.
348. *Cynosurus cristatus* L. Dogtail-grass. From Europe. Mahoning County.
349. *Phragmites phragmites* (L.) Karst. Common Reed-grass. Ash-taubula, Cuyahog, Erie, Lucas, Huron, Wayne, Franklin.
350. *Danthonia spicata* (L.) Beauv. Common Wild-oat-grass. General.
351. *Danthonia compressa* Aust. Flattened Wild-oat-grass. Portage County.
352. *Arrhenatherum elatius* (L.) Beauv. Oat-grass. From Europe. Hamilton County.
353. *Trisetum pennsylvanicum* (L.) Beauv. Marsh False-oats. No specimens.
354. *Avena torreyi* Nash. Purple Oats. Franklin County.
355. *Avena sativa* L. Common Oats. Rather general. Escaped from cultivation.

356. *Avena fatua* L. Wild Oats. From Europe. No specimens.
357. *Deschampsia flexuosa* (L.) Trin. Wavy Hair-grass. Portage County.
358. *Aspris caryophyllea* (L.) Nash. Silvery Hair-grass. From Europe. Lake County.
359. *Nothoholcus lanatus* (L.) Nash. Velvet-grass. Lake, Trumbull, Cuyahoga, Lorain, Erie, Wayne, Fairfield. From Europe.
360. *Lolium perenne* L. Red Darnel. Rather general. From Europe.
361. *Lolium multiflorum* Lam. Awned Darnel. Hamilton, Madison. From Europe.
362. *Lolium temulentum* L. Poison Darnel. No specimens. From Europe.
363. *Agropyron repens* (L.) Beauv. Couch-grass. Rather general; no specimens from the southeastern part of the state. From Europe.
364. *Agropyron caninum* (L.) R. & S. Awned Wheat-grass. Portage County. From Europe.
365. *Triticum vulgare* L. Wheat. Erie, Belmont, Harrison, Tuscarawas, Morrow, Fayette, Madison, Preble, Franklin. Escaped from cultivation.
366. *Secale cereale* L. Rye. Erie, Morrow, Franklin, Scioto. Escaped.
367. *Elymus virginicus* L. Virginia Wild-rye. General.
368. *Elymus hirsutiglumis* Scrib. & Sm. Strict Wild-rye. Ottawa, Huron.
369. *Elymus canadensis* L. Nodding Wild-rye. Rather general.
370. *Elymus striatus* Willd. Slender Wild-rye. Wayne, Erie, Auglaize.
371. *Hystrix hystrix* (L.) Millsp. Bottle-brush-grass. General.
372. *Hordeum vulgare* L. Common Barley. Franklin, Tuscarawas. Portage. Escaped from cultivation.
373. *Hordeum distichum* L. Two-rowed Barley. Escaped in Lake County.
374. *Hordeum nodosum* L. Meadow Barley. Hamilton County.
375. *Hordeum jubatum* L. Squirrel-tail Barley. From Lake to Lucas County; also in Franklin, Madison, Greene, Allen, Defiance, and Williams. Naturalized from the West.

376. *Spartina michauxiana* Hitch. Tall Slough-grass. Rather general; no specimens from the central eastern nor from the southwestern counties.
377. *Beckmannia erucaeformis* (L.) Host. Beckmannia. Cuyahoga County.
378. *Capriola dactylon* (L.) Ktze. Bermuda-grass. No specimens. From Europe.
379. *Eleusine indica* (L.) Gaert. Yard-grass. General. Naturalized.
380. *Atheropogon eurtipendulus* (Mx.) Fourn. Tall Gramma-grass. Lake, Erie, Ottawa, Franklin, Adams.
381. *Bouteloua hirsuta* Lag. Hairy Mesquite-grass. Waifs in Franklin County.
382. *Bouteloua oligostachya* (Nutt.) Torr. Smooth Mesquite-grass. Waifs in Franklin County.
383. *Sporobolus asper* (Mx.) Kunth. Longleaf Rush-grass. Lake, Erie, Franklin.
384. *Sporobolus vaginaeflorus* (Torr.) Wood. Sheathed Rush-grass. Anglaize, Madison, Warren, Vinton, Athens.
385. *Sporobolus neglectus* Nash. Small Rush-grass. Cuyahoga, Wayne, Huron, Anglaize.
386. *Sporobolus cryptandrus* (Torr.) Gr. Sand Dropseed. Lucas, Ottawa, Erie, Lorain.
387. *Sporobolus heterolepis* Gr. Northern Dropseed. Franklin, Madison, Champaign.
388. *Calamagrostis canadensis* (Mx.) Beauv. Bluejoint Reed-grass. Northern Ohio, as far south as Stark, Franklin, and Anglaize Counties.
389. *Calamagrostis cinnoides* (Muhl.) Scrib. Nuttall's Reed-grass. No specimens.
390. *Agrostis alba* L. Red-top. General. From Europe.
391. *Agrostis schweinitzii* Trin. Thin Bent-grass. Rather general.
392. *Agrostis hyemalis* (Walt.) B. S. P. Rough Silk-grass. Rather general, but no specimens from the northwestern nor southeastern counties.
393. *Apera spica-venti* (L.) Beauv. Silky Windlestraw. From Europe. Lake County.
394. *Cinna arundinacea* L. Wood Reed-grass. General.
395. *Ammophila arenaria* (L.) Link. Sand Beech-grass. Erie County.

396. *Alopecurus geniculatus* L. Marsh Foxtail. Lake, Ottawa, Crawford, Anglaize, Madison, Franklin, Perry. Introduced.
397. *Alopecurus pratensis* L. Meadow Foxtail. No specimens. From Europe.
398. *Helicochloa schoenoides* (L.) Host. Cat-tail-grass. Greene County. From Europe.
399. *Phleum pratense* L. Timothy. General. From Europe.
400. *Muhlenbergia sobolifera* (Muhl.) Trin. Rock Muhlenbergia. Highland, Wayne.
401. *Muhlenbergia mexicana* (L.) Trin. Mexican Muhlenbergia. General.
402. *Muhlenbergia racemosa* (Mx.) B. S. P. Marsh Muhlenbergia. Summit, Wayne, Huron, Wyandot, Champaign, Licking.
403. *Muhlenbergia umbrosa* Scribn. Wood Muhlenbergia. Cuyahoga, Champaign.
404. *Muhlenbergia tenuiflora* (Willd.) B. S. P. Slender Muhlenbergia. Portage, Wayne, Fairfield, Madison, Greene.
405. *Muhlenbergia schreberi* Gmel. Spreading Muhlenbergia. General.
406. *Brachyelytrum erectum* (Schreb.) Beauv. Brachyelytrum. Cuyahoga, Portage, Lorain, Wayne, Highland, Franklin, Madison, Hocking, Adams.
407. *Milium effusum* L. Tall Millet-grass. Lake, Cuyahoga, Lorain, Wayne, Stark.
408. *Oryzopsis racemosa* (Sm.) Ricker. Black-fruited Mountain-rice. Geauga, Summit, Erie, Greene, Highland.
409. *Stipa spartea* Trin. Porcupine-grass. Erie County, where it occurs on Cedar Point.
410. *Aristida dichotoma* Mx. Poverty-grass. Scioto, Vinton, Fairfield.
411. *Aristida oligantha* Mx. Few-flowered Triple-awned-grass. Cuyahoga County.
412. *Aristida gracilis* Ell. Slender Triple-awned-grass. Hamilton, Clermont, Athens, Erie, Cuyahoga.
413. *Aristida purpurascens* Poir. Purplish Triple-awned-grass. Wood, Fulton.
414. *Savastana odorata* (L.) Scrib. Vanilla-grass. Trumbull, Madison, Pickaway.

415. *Phalaris arundinacea* L. Reed Canary-grass. Rather general; no specimens from the northwestern nor from the southeastern counties.
416. *Phalaris canariensis* L. Canary-grass. Montgomery, Hamilton. From Europe.
417. *Anthoxanthum odoratum* L. Sweet Vernal-grass. Ashtabula, Cuyahoga, Summit, Mahoning, Wayne, Franklin. From Europe.
418. *Anthoxanthum puelii* Lec. & Lamotte. Long-awned Vernal-grass. Hamilton County. A native of Europe.
- Subfamily, PANICATAE.
419. *Panicum agrostoides* Spreng. Agrostis-like Panic-grass. Erie County.
420. *Panicum stipitatum* Nash. Long Panic-grass. Northeastern Ohio to Lorain, Fairfield, and Columbiana Counties.
421. *Panicum virgatum* L. Tall, smooth Panic-grass. General.
422. *Panicum dichotomiflorum* Mx. Spreading Panic-grass. General.
423. *Panicum miliaceum* L. Millet Panic-grass. Lawrence, Richland, Erie. Introduced.
424. *Panicum capillare* L. Tumble Panic-grass. General and abundant.
425. *Panicum gattingeri* Nash. Gattinger's Panic-grass. Rather general.
426. *Panicum flexile* (Gatt.) Scrib. Wiry Panic-grass. Adams, Champaign, Madison, Franklin, Erie, Cuyahoga.
427. *Panicum philadelphicum* Bernh. Philadelphia Panic-grass. Ottawa County.
428. *Panicum depauperatum* Muhl. Starved Panic-grass. Cuyahoga County.
429. *Panicum linearifolium* Scrib. Linear-leaf Panic-grass. Rather general.
430. *Panicum wernerii* Scrib. Werner's Panic-grass. Lake, Cuyahoga, Franklin, Athens.
431. *Panicum bicknellii* Nash. Bicknell's Panic-grass. Gallia County.
432. *Panicum sphaerocarpon* Ell. Round-fruited Panic-grass. Cuyahoga, Summit, Trumbull, Hocking, Scioto.
433. *Panicum polyanthes* Schultes. Many-flowered Panic-grass. Fairfield, Hocking, Jackson.

434. *Panicum dichotomum* L. Forked Panic-grass. Rather general; no specimens from the northwestern counties.
435. *Panicum microcarpon* Muhl. Small-fruited Panic-grass. Cuyahoga, Lorain, Erie, Fairfield, Hocking, Jackson, Adams.
436. *Panicum boreale* Nash. Northern Panic-grass. Fulton County.
437. *Panicum lindheimeri* Nash. Lindheimer's Panic-grass. Ash-tula, Hocking.
438. *Panicum machuae* Ashe. Hairy Panic-grass. General.
439. *Panicum villosissimum* Nash. Villous Panic-grass. Cuyahoga, Erie, Licking.
440. *Panicum implicatum* Scrib. Slender-stemmed Panic-grass. Gallia County.
441. *Panicum tsugetorum* Nash. Hemlock Panic-grass. Defiance, Summit.
442. *Panicum leibergii* (Vasey) Scrib. Leiberg's Panic-grass. No specimens.
443. *Panicum scribnerianum* Nash. Scribner's Panic-grass. Cuyahoga, Erie, Wood, Franklin.
444. *Panicum xanthophysum* Gr. Slender Panic-grass. Lake County.
445. *Panicum ashei* Pear. Ashe's Panic-grass. Cuyahoga, Lake, Trumbull, Fairfield.
446. *Panicum commutatum* Schultes. Variable Panic-grass. Lawrence, Gallia, Fairfield, Wayne.
447. *Panicum latifolium* L. Broad-leaf Panic-grass. General.
448. *Panicum boscii* Poir. Bose's Panic-grass. Warren, Adams, Jackson, Belmont.
- 448a. *Panicum boscii molle* (Vas.) Hitch. & Ch. Hamilton, Lawrence, Cuyahoga.
449. *Panicum clandestinum* L. Hispid Panic-grass. General.
450. *Leptaloma cognatum* (Schultes) Chase. Fall Witch-grass. From the West. Lake County.
451. *Syntherisma filiforme* (L.) Nash. Slender Crab-grass. No specimens.
452. *Syntherisma ischaemum* (Schreb.) Nash. Small Crab-grass. Lorain, Wayne, Anglaize, Fairfield. From Europe.
453. *Syntherisma sanguinale* (L.) Dulac. Large Crab-grass. General. Naturalized.
454. *Echinochloa crus-galli* (L.) Beauv. Common Barnyard-grass. General and abundant. Naturalized from Europe.

455. *Echinochloa walteri* (Pursh.) Nash. Marsh Cockspur-grass. Erie, Lorain, Shelby, Auglaize, Licking.
456. *Paspalum muhlenbergii* Nash. Muhlenberg's Paspalum. Cuyahoga, Erie, Warren, Hamilton, Scioto, Guernsey.
457. *Chaetochloa verticillata* (L.) Scrib. Verticillate Foxtail-grass. From Europe. Cuyahoga, Wayne, Jefferson, Franklin, Ross, Montgomery, Warren, Hamilton.
458. *Chaetochloa glauca* (L.) Scrib. Yellow Foxtail-grass. General. From Europe.
459. *Chaetochloa viridis* (L.) Scrib. Green Foxtail-grass. General. Naturalized from Europe.
460. *Chaetochloa italica* (L.) Scrib. Italian Millet. Rather general. Escaped.
461. *Cenchrus tribuloides* L. Sandbur-grass. Lucas, Wood, Ottawa, Erie, Lorain, Cuyahoga, Franklin, Highland, Gallia.
462. *Homalocenchrus virginicus* (Willd.) Britt. Virginia Cut-grass. Rather general.
463. *Homalocenchrus oryzoides* (L.) Poll. Rice Cut-grass. Rather general.
464. *Zizania aquatica* L. Wild Rice. Erie, Licking, Perry, Hocking.
465. *Holcus halapense* L. Johnson-grass. Native of Europe. Cuyahoga, Erie, Franklin, Madison.
466. *Holcus sorghum* L. Common Sorghum. Volunteer in Adams County.
467. *Sorghastrum nutans* (L.) Nash. Indian-grass. Ashtabula, Cuyahoga, Erie, Wyandot, Auglaize, Franklin, Madison, Adams.
468. *Miscanthus sinensis* Anderss. Chinese Plume-grass. An escape in Lake County.
469. *Andropogon furcatus* Muhl. Big Bluestem. Rather general.
470. *Andropogon virginicus* L. Virginia Beard-grass. Gallia, Jackson, Meigs, Athens, Vinton, Hocking, Fairfield, Belmont.
471. *Andropogon scoparius* Mx. Little Bluestem. (*Schizachyrium scoparium* (Mx.) Nash). Rather general.
472. *Coix lacryma* L. Job's-tears. Persistent in Franklin County.
473. *Zea mays* L. Indian Corn. Spontaneous in Brown, Adams, Scioto, Fayette, Monroe, and Hancock Counties.

Subclass, LILIFLORAE.

Order, *Liliales*.

Liliaceae. Lily Family.

Subfamily, DRACAENATAE.

474. *Yucca filamentosa* L. Adam's-needle. Escaped in Franklin County.

Subfamily, LILITAE.

475. *Lilium superbum* L. Turk's-cap Lily. Erie County—(Moseley herbarium).
476. *Lilium canadense* L. Canada Lily. General.
477. *Lilium philadelphicum* L. Philadelphia Lily. Fulton, Lucas, Sandusky. (Erie County—Moseley herbarium).
478. *Lilium umbellatum* Pursh. Western Red Lily. Stark County.
479. *Erythronium americanum* Ker. Yellow Dog-tooth Lily. General.
480. *Erythronium albidum* Nutt. White Dog-tooth Lily. General.
481. *Hemerocallis fulva* L. Common Day-lily. General. Escaped from cultivation.
482. *Allium tricoccum* Ait. Wild Leek. West central part of state to Delaware and Franklin; also in Lorain, Cuyahoga, and Medina Counties.
483. *Allium vineale* L. Field Garlic. Franklin, Harrison. From Europe.
484. *Allium cepa* L. Common Onion. Cultivated. Sometimes persistent.
485. *Allium canadense* L. Meadow Garlic. General.
486. *Allium cernuum* Roth. Nodding Onion. General.
487. *Quamasia hyacinthina* (Raf.) Britt. Wild Hyacinth. General, but rare in eastern Ohio.
488. *Ornithogalum umbellatum* L. Star-of-Bethlehem. From Europe. Montgomery, Miami, Gallia, Franklin, Auglaize.
489. *Muscari botryoides* (L.) Mill. Grape-hyacinth. From Europe. Montgomery, Lake.
490. *Aletris farinosa* L. Colic-root. In counties bordering Lake Erie.

Subfamily, MELANTHATAE.

491. *Uvularia sessilifolia* L. Sessile-leaf Bellwort. Lucas, Cuyahoga, Portage, Summit, Mahoning, Gallia.

492. *Uvularia grandiflora* Sm. Large-flowered Bellwort. General.
 493. *Uvularia perfoliata* L. Perfoliate Bellwort. General.
 494. *Melanthium virginicum* L. Virginia Bunchflower. Richland,
Wayne.
 495. *Veratrum woodii* Robb. Wood's False-hellebore. Auglaize
County.
 496. *Veratrum viride* Ait. American False-hellebore. Ashtabula
County.
 497. *Anticlea elegans* (Pursh) Rydb. Glaucous Anticlea. Cham-
paign, Portage, Stark, Highland, Ottawa.
 498. *Stenanthium robustum* Wats. Stout Stenanthium. Fairfield
County.
 499. *Chamaelirium luteum* (L.) Gr. Chamaelirium. Northeastern
Ohio to Licking County; also in Lawrence County.
 500. *Triantha glutinosa* (Mx.) Baker. Glutinous Triantha. Stark,
Champaign.

Subfamily, TRILLIATAE.

501. *Trillium grandiflorum* (Mx.) Salisb. Large-flowered Trillium.
General.
 502. *Trillium erectum* L. Ill-scented Trillium. General.
 503. *Trillium cernuum* L. Nodding Trillium. Auglaize, Champaign,
Medina.
 504. *Trillium declinatum* (Gr.) Gleason. Drooping Trillium. No
specimens.
 505. *Trillium undulatum* Willd. Painted Trillium. Ashtabula
County.
 506. *Trillium nivale* Ridd. Early Trillium. Miami, Clark, Greene,
Franklin.
 507. *Trillium sessile* L. Sessile Trillium. General.
 508. *Trillium recurvatum* Beck. Prairie Trillium. Auglaize, Ham-
ilton.
 509. *Medeola virginiana* L. Indian Cucumber-root. General.

Subfamily, CONVALLARIATAE.

510. *Streptopus amplexifolius* (L.) DC. Clasping-leaf Twisted-stalk.
Reported for Ohio.
 511. *Disporum lanuginosum* (Mx.) Nich. Hairy Disporum. Eastern
half of state; also in Adams County.

512. *Polygonatum commutatum* (R. & S.) Dietr. Smooth Solomon's-seal. General.
513. *Polygonatum biflorum* (Walt.) Ell. Hairy Solomon's-seal. General.
514. *Vagnera racemosa* (L.) Mor. Panicked False Solomon's-seal. General.
515. *Vagnera stellata* (L.) Mor. Stellate False Solomon's-seal. Rather general.
516. *Vagnera trifolia* (L.) Mor. Three-leaf False Solomon's-seal. Fulton, Lorain.
517. *Unifolium canadense* (Desf.) Greene. False Lily-of-the-valley. General.
518. *Clintonia borealis* (Ait.) Raf. Yellow Clintonia. Ashtabula County.
519. *Clintonia umbellulata* (Mx.) Torr. White Clintonia. Harrison, Portage, Wayne.
520. *Convallaria majalis* L. Lily-of-the-valley. Escaped in Franklin County.
521. *Asparagus officinalis* L. Asparagus. General. Introduced from Europe.

Smilacaceae. Smilax Family.

522. *Smilax ecirrhata* (Engel.) Wats. Upright Smilax. Erie, Ottawa, Wood, Hardin, Preble, Clinton, Brown, Fairfield.
523. *Smilax herbacea* L. Common Carrion-flower. General.
524. *Smilax pseudo-china* L. Long-stalked Greenbrier. Erie, Vinton, Brown.
525. *Smilax hispida* Muhl. Hispid Greenbrier. General.
526. *Smilax glauca* Walt. Glaucons Greenbrier. Southeastern part of the state to Clermont, Warren, Fairfield, Knox, and Summit Counties; also in Lucas County.
527. *Smilax rotundifolia* L. Roundleaf Greenbrier. Lawrence, Hocking, Fairfield, Licking, Belmont, Lorain, Cuyahoga.

Pontederiaceae. Pickerel-weed Family.

528. *Pontederia cordata* L. Pickerel-weed. From Licking and Perry northeast; also in Defiance, Fulton, Lucas, and Erie.
529. *Heteranthera dubia* (Jacq.) MacM. Water-stargrass. Rather general.

Commelinaceae. Spiderwort Family.

530. *Tradescantia reflexa* Raf. Reflexed Spiderwort. Ashtabula, Erie, Mahoning, Richland, Coshocton, Licking, Franklin, Auglaize.
531. *Tradescantia virginiana* L. Virginia Spiderwort. General as far north as Auglaize and Stark.
532. *Tradescantia pilosa* Lehm. Zigzag Spiderwort. Hamilton, Clermont, Montgomery.
533. *Commelina virginica* L. Virginia Day-flower. Clermont, Montgomery, Lake.

Juncaceae. Rush Family.

534. *Juncus effusus* L. Common Rush. General.
535. *Juncus balticus* Willd. Baltic Rush. Erie County.
536. *Juncus gerardi* Lois. Gerard's Rush. Cuyahoga County.
537. *Juncus dudleyi* Wieg. Dudley's Rush. Montgomery, Clinton, Champaign, Delaware, Licking, Tuscarawas.
538. *Juncus tenuis* Willd. Slender Rush. General.
539. *Juncus bufonius* L. Toad Rush. Williams, Lucas, Lorain, Licking.
540. *Juncus monostichus* Bartl. One-ranked Rush. Trumbull County.
541. *Juncus aristulatus* Mx. Small-headed Grass-leaf Rush. Fairfield, Wayne, Summit.
542. *Juncus marginatus* Rostk. Grass-leaf Rush. Cuyahoga County.
543. *Juncus alpinus* Vill. Richardson's Rush. Cuyahoga County.
544. *Juncus articulatus* L. Jointed Rush. Cuyahoga County.
545. *Juncus torreyi* Cov. Torrey's Rush. Adams, Madison, Wood, Erie, Cuyahoga.
546. *Juncus nodosus* L. Knotted Rush. Madison, Franklin, Cuyahoga, Erie.
547. *Juncus brachycephalus* (Engelm.) Buch. Small-headed Rush. Erie, Cuyahoga, Franklin, Madison, Champaign.
548. *Juncus acuminatus* Mx. Sharp-fruited Rush. General.
549. *Juncus canadensis* J. Gay. Canada Rush. Cuyahoga, Geauga, Licking, Madison, Auglaize.
550. *Juncus scirpoides* Lam. Scirpus-like Rush. Erie County.
551. *Juncoides carolinae* (Wats.) Ktz. Hairy Wood-rush. Lucas, Cuyahoga, Trumbull, Mahoning, Hoeking.
552. *Juncoides campestre* (L.) Ktz. Common Wood-rush. General.

Xyridaceae. Yellow-eyed-grass Family.

553. *Xyris flexuosa* Muhl. Slender Yellow-eyed-grass. Portage, Geauga.

Eriocaulaceae. Pipewort Family.

554. *Eriocaulon septangulare* With. Seven-angled Pipewort. Summit County.

Order, *Iridales*.**Amaryllidaceae.** Amaryllis Family.

555. *Manfreda virginica* (L.) Salisb. False Aloe. Lawrence County.
556. *Hypoxis hirsuta* (L.) Cov. Yellow Stargrass. General.

Iridaceae. Iris Family.

557. *Iris versicolor* L. Large Blue-flag. General.
558. *Iris cristata* Ait. Crested Dwarf Iris. Lawrence, Adams, Scioto, Pike, Ross, Jackson, Vinton, Hocking, Cuyahoga, Trumbull.
559. *Gemmingia chinensis* (L.) Ktze. Blackberry-lily. From Asia. Franklin County.
560. *Crocus vernus* L. Crocus. Escaped in Lake County.
561. *Sisyrinchium angustifolium* Mill. Pointed Blue-eyed-grass. Rather general.
562. *Sisyrinchium graminoides* Bickn. Stout Blue-eyed-grass. General.

Dioscoreaceae. Yam Family.

563. *Dioscorea villosa* L. Wild Yam. General.
563.1. *Dioscorea bulbifera* L. Air Potato (Yam). Escaped from gardens in Madison County.

Order, *Orchidales*.**Orchidaceae.** Orchid Family.

Subfamily, CYPRIPEDIATAE.

564. *Cypripedium reginae* Walt. Showy Lady's-slipper. Fulton, Champaign, Lucas, Geauga, Portage, Muskingum.
565. *Cypripedium candidum* Willd. White Lady's-slipper. Wyandot, Erie, Montgomery.

566. *Cypripedium parviflorum* Salisb. Yellow Lady's-slipper. General.
567. *Fissipes acaulis* (Ait.) Small. Moccasin-flower. Medina, Portage, Hocking, Fairfield, Stark, Cuyahoga.

Subfamily, ORCHIDATAE.

568. *Galeorchis spectabilis* (L.) Rydb. Showy Orchis. General.
569. *Perularia flava* (L.) Farw. Tubereled Orchis. General.
570. *Coeloglossum bracteatum* (Willd.) Parl. Long-bracted Orchis. Lucas, Lorain, Medina, Portage, Franklin, Butler, Anglaize.
571. *Gymnadeniopsis clavellata* (Mx.) Rydb. Green Wood-orchis. Geauga, Trumbull, Portage, Summit, Richland, Licking, Champaign.
572. *Limnorchis hyperborea* (L.) Rydb. Tall Bog-orchis. Stark County.
573. *Lysias orbiculata* (Pursh.) Rydb. Large Roundleaf Orchis. Cuyahoga, Geauga, Wayne.
574. *Lysias hookeriana* (Gr.) Rydb. Hooker's Orchis. Medina County.
575. *Blephariglottis ciliaris* (L.) Rydb. Yellow Fringed-orchis. Fulton County.
576. *Blephariglottis blephariglottis* (Willd.) Rydb. White Fringed-orchis. Geauga, Portage.
577. *Blephariglottis lacera* (Mx.) Farw. Ragged Fringed-orchis. Cuyahoga, Portage, Crawford, Richland, Wayne, Holmes, Stark, Licking, Fairfield.
578. *Blephariglottis leucophaea* (Nutt.) Farw. Prairie Fringed-orchis. Anglaize County.
579. *Blephariglottis psycodes* (L.) Rydb. Smaller Purple Fringed-orchis. Rather general.
- 579a. *Blephariglottis psycodes grandiflora* (Bigel.). Portage County (R. J. Webb).
580. *Blephariglottis peramoena* (Gr.) Rydb. Fringeless Purple Orchis. Perry, Gallia, Clermont, Wayne, Hocking.
581. *Pogonia ophioglossoides* (L.) Ker. Rose Pogonia. Lucas, Cuyahoga, Geauga, Ashland, Portage, Richland, Licking, Lorain, Holmes.
582. *Isotria verticillata* (Willd.) Raf. Whorled Isotria. Defiance, Cuyahoga, Geauga, Medina, Coshocton, Fairfield.

583. *Triphora trianthophora* (Sw.) Rydb. Nodding Triphora. Huron, Cuyahoga, Wayne, Summit, Stark, Licking, Franklin, Ross, Clark.
584. *Arethusa bulbosa* L. Arethusa. Licking, Portage.
585. *Limodorum tuberosum* L. Limodorum. Fulton, Lucas, Erie, Geauga, Portage, Summit, Ashland, Stark, Clark, Fairfield, Licking, Wayne.
586. *Ibidium strictum* (Rydb.) House. Hooded Lady's-tresses. Ash-tabula County.
587. *Ibidium plantagineum* (Raf.) House. Broadleaf Lady's-tresses. Medina, Portage.
588. *Ibidium cernuum* (L.) House. Nodding Lady's-tresses. Erie, Lorain, Cuyahoga, Medina, Portage, Stark, Lake, Licking.
589. *Ibidium ovale* (Lindl.) House. Small-flowered Lady's-tresses. No specimens.
590. *Ibidium praecox* (Walt.) House. Grass-leaf Lady's-tresses. Wayne County.
591. *Ibidium beckii* (Lindl.) House. Little Lady's-tresses. Fairfield County.
592. *Ibidium gracile* (Bigel.) House. Slender Lady's-tresses. Erie, Cuyahoga, Lake, Licking, Muskingum, Fairfield, Hocking, Adams, Gallia, Morgan.
593. *Peranimum pubescens* (Willd.) MacM. Downy Rattlesnake-plantain. Adams, Hocking, Lake, Fairfield, Highland, Wayne, Noble, Portage.
594. *Malaxis unifolia* Mx. Green Adder-mouth. Fairfield, Hocking, Wayne.
595. *Liparis liliifolia* (L.) Rich. Large Twayblade. Portage, Franklin, Fairfield, Clark, Wayne.
596. *Liparis loeselii* (L.) Rich. Fen Twayblade. Champaign, Cuyahoga, Summit, Stark.
597. *Tipularia unifolia* (Muhl.) B. S. P. Crane-fly Orchis. Medina, (Lorain, Cuyahoga—Oberlin College Herbarium).
598. *Aplectrum hyemale* (Muhl.) Torr. Putty-root. General.
599. *Corallorrhiza corallorrhiza* (L.) Karst. Early Coral-root. No specimens.
600. *Corallorrhiza maculata* Raf. Large Coral-root. Erie, Huron, Cuyahoga, Wayne, Fairfield, Franklin, Gallia, Noble.

601. *Corallorrhiza wisteriana* Conrad. Wister's Coral-root. Hamilton, Lawrence.
602. *Corallorrhiza odontorhiza* (Willd.) Nutt. Small-flowered Coral-root. Erie, Cuyahoga, Stark, Licking, Fairfield, Madison.

Class, DICOTYLAE. Dicotyls.

Subclass, THALAMIFLORAE.

Order, *Ranales*.

Magnoliaceae. Magnolia Family.

603. *Magnolia acuminata* L. Cucumber Magnolia. Eastern half of state, west to Lorain and Madison Counties.
604. *Magnolia tripetala* L. Umbrella Magnolia. Scioto County.
605. *Liriodendron tulipifera* L. Tuliptree. General.

Anonaceae. Custard-apple Family.

606. *Asimina triloba* (L.) Dunal. Pawpaw. General.

Ranunculaceae. Crowfoot Family.

607. *Ranunculus abortivus* L. Kidney-leaf Crowfoot. General and abundant.
608. *Ranunculus micranthus* Nutt. Rock Crowfoot. Clermont County.
609. *Ranunculus seeleratus* L. Celery-leaf Crowfoot. Rather general.
610. *Ranunculus recurvatus* Poir. Hooked Crowfoot. General and abundant.
611. *Ranunculus acris* L. Tall Buttercup. Rather general except in the southern part. From Europe.
612. *Ranunculus bulbosus* L. Bulbous Buttercup. Columbiana County. From Europe.
613. *Ranunculus pennsylvanicus* L. f. Bristly Buttercup. Lucas, Ottawa, Cuyahoga, Lake, Wayne, Licking, Fairfield, Perry.
614. *Ranunculus repens* L. Creeping Buttercup. Scioto, Columbiana. From Europe.
615. *Ranunculus septentrionalis* Poir. Swamp Buttercup. General and abundant.
616. *Ranunculus hispidus* Mx. Hispid Buttercup. General.
617. *Ranunculus fascicularis* Muhl. Tufted Buttercup. Lucas, Ottawa, Cuyahoga.

618. *Ranunculus arvensis* L. Corn Crowfoot. No specimens. From Europe.
619. *Ranunculus obtusiusculus* Raf. Lance-leaf Buttercup. Jackson, Franklin, Licking, Erie, Lorain, Cuyahoga, Lake, Ashtabula.
620. *Ranunculus delphinifolius* Torr. Yellow Water-crowfoot. Northwestern fourth of state to Huron and Madison Counties; also in Ashtabula County.
621. *Ficaria verna* (L.) Karst. Golden-cup. Lake County. From Europe.
622. *Batrachium trichophyllum* (Chaix.) Schultz. White Water-crowfoot. Rather general.
623. *Batrachium circinatum* (Sibth.) Rehb. Circinate White Water-crowfoot. Licking, Defiance.
624. *Trollius laxus* Salisb. American Globe-flower. Columbiana, Stark.
625. *Helleborus viridis* L. Green Hellebore. Gallia, Miami, Franklin, Stark. From Europe.
626. *Nigella damascena* L. Love-in-a-mist. Hamilton County. (Erie County—Moseley Herbarium.) Escaped from gardens.
627. *Coptis trifolia* (L.) Salisb. Gold-thread. Defiance, Portage, Summit, Stark, Geauga.
628. *Aquilegia canadensis* L. Wild Columbine. General.
629. *Aquilegia vulgaris* L. European Columbine. Escaped in Fulton County.
630. *Aconitum noveboracense* Gr. New York Monkshood. Summit, Portage.
631. *Delphinium tricorne* Mx. Dwarf Larkspur. Southern half of the state; also in Columbiana County.
632. *Delphinium exaltatum* Ait. Tall Larkspur. Stark, Franklin.
633. *Delphinium ajacis* L. Garden Larkspur. General. Naturalized from Europe.
634. *Anemone cylindrica* Gr. Long-fruited Anemone. Wood, Ottawa, Erie.
635. *Anemone virginiana* L. Virginia Anemone. General.
636. *Anemone canadensis* L. Canada Anemone. General.
637. *Anemone quinquefolia* L. Wind-flower. General except southern and southeastern parts of the state.
638. *Hepatica hepatica* (L.) Karst. Roundlobed Liver-leaf. General.

639. *Hepatica acutiloba* DC. Sharplobed Liver-leaf. General.
 640. *Clematis virginiana* L. Virginia Virgin's-bower. General.
 641. *Viorna viorna* (L.) Small. Leather-flower. Southern half of Ohio; also in Auglaize County.
 642. *Caltha palustris* L. Marsh-marigold. General.
 643. *Hydrastis canadensis* L. Golden-seal. General.
 644. *Actaea rubra* (Ait.) Willd. Red Baneberry. Erie, Sandusky.
 645. *Actaea alba* (L.) Mill. White Baneberry. General.
 646. *Cimicifuga racemosa* (L.) Nutt. Black Cohosh. Eastern half of state to Erie, Fairfield, and Clermont Counties.
 647. *Syndesmon thalictroides* (L.) Hoffm. Rue-anemone. General and abundant.
 648. *Isopyrum biternatum* (Raf.) T. & G. False Rue-anemone. Southwestern fourth of state; also in Cuyahoga County.
 649. *Thalictrum dioicum* L. Early Meadow-rue. General.
 650. *Thalictrum dasycarpum* Fisch & Lall. Purplish Meadow-rue. General.
 651. *Thalictrum polygamum* Muhl. Fall Meadow-rue. Rather general.

Parnassiaceae. Grass-of-Parnassus Family.

652. *Parnassia caroliniana* Mx. Carolina Grass-of-Parnassus. Rather general.

Ceratophyllaceae. Hornleaf Family.

653. *Ceratophyllum demersum* L. Hornleaf. General.

Berberidaceae. Barberry Family.

654. *Podophyllum peltatum* L. May-apple. General and abundant.
 655. *Jefersonia diphylla* (L.) Pers. Twinleaf. General.
 656. *Caulophyllum thalictroides* (L.) Mx. Blue Cohosh. General.
 657. *Berberis vulgaris* L. Common Barberry. Escaped rather generally.
 658. *Odoostemon aquifolium* (Pursh.) Rydb. Tailing Mahonia. Escaped in Lake County.

Menispermaceae. Moonseed Family.

659. *Menispermum canadense* L. Moonseed. General and abundant.

Lauraceae. Laurel Family.

660. *Sassafras sassafras* (L.) Karst. Sassafras. General.
 661. *Benzoin aestivale* (L.) Nees. Spicebush. General.

Order, *Sarraceniales*.**Sarraceniaceae.** Pitcher-plant Family.

662. *Sarracenia purpurea* L. Pitcher-plant. Geauga, Summit, Ashtabula, Wayne, Richland, Defiance, Williams.

Droseraceae. Sundew Family.

663. *Drosera rotundifolia* L. Roundleaf Sundew. Licking, Wayne, Portage, Stark, Geauga, Ashtabula.
 664. *Drosera intermedia* Hayne. Spatulate Sundew. Wayne County.

Order, *Brassicales*.**Papaveraceae.** Poppy Family.

665. *Papaver somniferum* L. Opium Poppy. No specimens. From Europe.
 666. *Papaver rhoeas* L. Field Poppy. Ashtabula County. From Europe.
 667. *Papaver dubium* L. Corn Poppy. No specimens. From Europe.
 668. *Papaver argemone* L. Rough-fruited Poppy. (Erie County-Moseley Herbarium.) From Europe.
 669. *Argemone mexicana* L. Mexican Prickly-poppy. Franklin County. From tropical America.
 670. *Sanguinaria canadensis* L. Bloodroot. General and abundant.
 671. *Stylophorum diphyllum* (Mx.) Nutt. Yellow Poppy. Southern half of state.
 672. *Macleya cordata* (Willd.) R. Br. Macleya. Escaped in Madison and Franklin Counties.
 673. *Chelidonium majus* L. Celandine. General. From Europe.

Fumariaceae. Fumitory Family.

674. *Bienculla cucullaria* (L.) Millsp. Dutchman's-breeches. General.
 675. *Bienculla canadensis* (Goldie) Millsp. Squirrel-corn. General.

676. *Adlumia fungosa* (Ait.) Greene. Climbing Fumitory. Lorain, Cuyahoga, Lake, Summit, Belmont.
677. *Capnoides sempervirens* (L.) Borek. Pink Corydalis. Fairfield, Knox, Portage.
678. *Capnoides flavulum* (Raf.) Ktz. Pale Corydalis. Southwestern fourth of state; also in Ottawa and Erie Counties.
679. *Capnoides aureum* (Willd.) Ktz. Golden Corydalis. (Ottawa County—Moseley Herbarium.)
680. *Fumaria officinalis* L. Common Fumitory. Columbiana County. From Europe.
681. *Fumaria parviflora* Lam. Small-flowered Fumitory. Introduced in Lake County.

Brassicaceae. Mustard Family.

682. *Berteroa incana* (L.) DC. Hoary Berteroa. No specimens. From Europe.
683. *Koniga maritima* (L.) R. Br. Sweet Alyssum. Erie County. Escaped.
684. *Alyssum alyssoides* L. Yellow Alyssum. Sandusky County. From Europe.
685. *Draba verna* L. Vernal Whitlow-grass. Southern half of state; also in Portage County. From Europe.
686. *Draba caroliniana* Walt. Carolina Whitlow-grass. Adams, Clark, Erie, Ottawa.
687. *Camelina sativa* (L.) Crantz. Common False-flax. Sandusky, Auglaize, Miami, Montgomery, Franklin. From Europe.
688. *Camelina microcarpa* Andr. Small-fruited False-flax. Clark County. From Europe.
689. *Bursa bursa-pastoris* (L.) Britt. Shepherd's-purse. General and abundant. From Europe.
690. *Neslia paniculata* (L.) Desv. Ball-mustard. Escaped in Lake County.
691. *Armoracia armoracia* (L.) Britt. Horseradish. General. From Europe.
692. *Neobeekia aquatica* (Eat.) Britt. Lake Water-cress. Lucas, Coshocton, Licking, Perry, Madison.
693. *Sisymbrium nasturtium-aquaticum* L. True Water-cress. Rather general. From Europe.

694. *Radicula hispida* (Desv.) Britt. Hispid Yellow-cress. Monroe, Shelby, Logan, Ottawa, Erie, Huron, Cuyahoga, Summit.
695. *Radicula palustris* (L.) Moench. Marsh Yellow-cress. General.
696. *Radicula sylvestris* (L.) Drnce. Creeping Yellow-cress. Lucas, Erie, Cuyahoga. From Europe.
697. *Lepidium ruderae* L. Roadside Peppergrass. No specimens. From Europe.
698. *Lepidium virginicum* L. Virginia Peppergrass. General and abundant.
699. *Lepidium densiflorum* Schrad. Wild Peppergrass. Auglaize, Champaign, Franklin, Fayette, Wayne, Lorain, Cuyahoga, Lake.
700. *Lepidium draba* L. Hoary Peppergrass. Lucas County. From Europe.
701. *Lepidium campestre* (L.) R. Br. Field Peppergrass. Rather general. From Europe.
702. *Carara didyma* (L.) Britt. Lesser Wart-cress. Lake County. Escaped.
703. *Thlaspi arvense* L. Field Penny-cress. Cuyahoga, Henry. From Europe.
704. *Myagrum perfoliatum* L. Myagrum. Lake County. From Europe.
705. *Alliaria alliaria* (L.) Britt. Garlic Mustard. (Erie County—Moseley Herbarium.) From Europe.
706. *Sophia pinnata* (Walt.) Howell. Pinnate Tanzy-mustard. Hamilton, Montgomery, Miami, Ottawa, Jackson.
707. *Sophia incisa* (Eng.) Greene. Western Tanzy-mustard. Miami, Portage.
708. *Cheirinia cheiranthoides* (L.) Link. Worm-seed Mustard. Hamilton, Lucas, Lake, Portage.
709. *Cheirinia repanda* (L.) Link. Repand Cheirinia. Logan, Erie. From Europe.
710. *Cheirinia aspera* (DC.) Britt. Western Cheirinia. Franklin County.
711. *Erysimum officinale* L. Hedge-mustard. General and abundant. From Europe.
712. *Norta altissima* (L.) Britt. Tall Hedge-mustard. Lake, Cuyahoga, Erie, Ottawa, Wayne, Jackson, Greene, Belmont, Portage. From Europe.

713. *Nortia irio* (L.) Britt. Longleaf Hedge-mustard. Portage County. Introduced.
714. *Conringia orientalis* (L.) Dum. Hare's-ear Mustard. Lake, Cuyahoga, Geauga. From Europe.
715. *Hesperis matronalis* L. Dame's Rocket. Hamilton, Franklin, Portage. From Europe.
716. *Arabidopsis thaliana* (L.) Britt. Mouse-ear Cress. Clinton, Montgomery, Lucas, Asthtabula. From Europe.
717. *Barbarea barbarea* (L.) MacM. Yellow Winter-cress. General. From Europe.
718. *Barbarea stricta* Andrz. Erect Winter-cress. Erie County. From Europe.
719. *Barbarea verna* (Mill.) Aschers. Early Winter-cress. Belmont, Portage, Harrison, Preble. From Europe.
720. *Iodanthus pinnatifidus* (Mx.) Steud. Purple Rocket. Rather general.
721. *Arabis dentata* T. & G. Toothed Rock-cress. Rather general.
722. *Arabis patens* Sull. Spreading Rock-cress. Franklin County.
723. *Arabis hirsuta* (L.) Scop. Hairy Rock-cress. Rather general.
724. *Arabis glabra* (L.) Bernh. Tower Mustard. Hamilton, Franklin, Auglaize, Lucas, Richland, Cuyahoga, Geauga, Belmont.
725. *Arabis laevigata* (Muhl.) Poir. Smooth Rock-cress. General.
726. *Arabis canadensis* L. Sickle-pod Rock-grass. General.
727. *Arabis virginica* (L.) Trel. Virginia Rock-cress. Clermont, Lawrence, Clark.
728. *Arabis lyrata* L. Lyre-leaf Rock-cress. Pike, Muskingum, Auglaize, Wood, Erie.
729. *Arabis drummondii* Gr. Drummond's Rock-cress. No specimens.
730. *Arabis brachycarpa* (T. & G.) Britt. Purple Rock-cress. Erie, Ottawa.
731. *Cardamine douglassii* (Torr.) Britt. Purple Bitter-cress. General and abundant.
732. *Cardamine bulbosa* (Schreb.) B. S. P. Bulbous Bitter-cress. General.
733. *Cardamine rotundifolia* Mx. Roundleaf Bitter-cress. Belmont, Noble.
734. *Cardamine pratensis* L. Meadow Bitter-cress. Portage County.
735. *Cardamine hirsuta* L. Hairy Bitter-cress. Lake County.

736. *Cardamine pennsylvanica* Muhl. Pennsylvania Bitter-cress. General.
737. *Cardamine arenicola* Britt. Sand Bitter-cress. Lake County.
738. *Cardamine parviflora* L. Small-flowered Bitter-cress. Lawrence, Hocking, Fairfield, Delaware.
739. *Dentaria dipylla* Mx. Two-leaf Toothwort. Eastern half of state.
740. *Dentaria maxima* Nutt. Large Toothwort. No specimens.
741. *Dentaria heterophylla* Nutt. Slender Toothwort. Auglaize, Hocking, Vinton, Belmont, Clermont.
742. *Dentaria laciniata* Muhl. Cutleaf Toothwort. General and abundant.
743. *Sinapis alba* L. White Mustard. Lucas County. From Europe.
744. *Sinapis arvensis* L. Corn Mustard. General except in the southern part. From Europe.
745. *Brassica nigra* (L.) Koch. Black Mustard. General and abundant. From Europe.
746. *Brassica juncea* (L.) Cosson. Indian Mustard. Wayne, Portage. From Asia.
747. *Brassica campestris* L. Common Turnip. Miami, Auglaize, Franklin, Wayne. From Europe.
748. *Brassica napus* L. Rape. Franklin County. Introduced.
749. *Brassica oleracea* L. Cabbage. No specimens. Spontaneous after cultivation.
750. *Diplotaxis muralis* (L.) DC. Sand Rocket. Cuyahoga County. From Europe.
751. *Raphanus raphanistrum* L. Wild Radish. Lake County. From Europe.
752. *Raphanus sativus* L. Garden Radish. Rather general. Spontaneous after cultivation.
753. *Cakile edentula* (Bigel.) Hook. Sea Rocket. Ashtabula, Lake, Cuyahoga, Erie.

Capparidaceae. Caper Family.

754. *Polanisia graveolens* Raf. Clammy-weed. Hamilton, Clermont, Warren, Montgomery, Greene, Ross, Monroe, Erie, Cuyahoga.
755. *Cleome spinosa* L. Spider-flower. Montgomery, Cuyahoga. From tropical America.

Resedaceae. Mignonette Family.

756. *Reseda luteola* L. Dyer's Mignonette. Licking, Belmont. From Europe.
757. *Reseda alba* L. White Mignonette. Cuyahoga County. From Europe.

Order, *Geraniales*.**Geraniaceae.** Geranium Family.

758. *Geranium maculatum* L. Wild Crane's-bill. General and abundant.
759. *Geranium columbinum* L. Long-stalked Crane's-bill. Lake County. From Europe.
760. *Geranium carolinianum* L. Carolina Crane's-bill. General.
761. *Geranium molle* L. Dove's-foot Crane's-bill. Madison, Lake. From Europe.
762. *Geranium pusillum* L. Small-flowered Crane's-bill. Cuyahoga, Lake, Ashtabula. From Europe.
763. *Robertiella robertiana* (L.) Hanks. Herb-Robert. North central counties.
764. *Erodium cicutarium* (L.) L'Her. Stork's-bill. Auglaize, Lake. From Europe.

Oxalidaceae. Wood-sorrel Family.

765. *Oxalis grandis* Small. Great Wood-sorrel. General except in the northwestern part of the state.
766. *Oxalis cymosa* Small. Tall Wood-sorrel. General and abundant.
767. *Oxalis stricta* L. Upright Wood-sorrel. General.
768. *Oxalis brittoniae* Small. Britton's Wood-sorrel. Franklin, Lake.
769. *Oxalis rufa* Small. Red Wood-sorrel. Franklin, Lake.
770. *Oxalis corniculata* L. Procumbent Wood-sorrel. Monroe, Franklin, Lake. From tropical America.
771. *Oxalis violacea* L. Violet Wood-sorrel. Rather general.

Limnanthaceae. False-mermaid Family.

772. *Floerkea proserpinacoides* Willd. False-mermaid. Rather general.

Linaceae. Flax Family.

773. *Linum usitatissimum* L. Common Flax. Rather general. Introduced.
774. *Linum perenne* L. Perennial Flax. Escaped in Lake County.
775. *Linum virginianum* L. Virginia Flax. Eastern half of state to Erie, Franklin, and Adams Counties.
776. *Linum medium* (Planch.) Britt. Stiff Flax. Erie County.
777. *Linum sulcatum* Ridd. Grooved Flax. Erie County.

Balsaminaceae. Jewel-weed Family.

778. *Impatiens pallida* Nutt. Pale Touch-me-not. General.
779. *Impatiens biflora* Walt. Spotted Touch-me-not. General and abundant.

Rutaceae. Rue Family.

780. *Zanthoxylum americanum* Mill. Prickly-ash. General in western Ohio as far east as Huron and Licking Counties.
781. *Ptelea trifoliata* L. Hoptree. General.

Simarubaceae. Ailanthus Family.

782. *Ailanthus glandulosa* Desf. Tree-of-heaven. General. Introduced.

Polygalaceae. Milkwort Family.

783. *Polygala cruciata* L. Crossleaf Milkwort. Gallia, Lucas.
784. *Polygala verticillata* L. Whorled Milkwort. General; no specimens from the western part of the state.
785. *Polygala ambigua* Nutt. Loose-spiked Milkwort. Rather general.
786. *Polygala viridescens* L. Purple Milkwort. General.
787. *Polygala senega* L. Seneca Snakeroot. Rather general.
788. *Polygala polygama* Walt. Racemed Milkwort. Ashtabula, Cuyahoga, Lucas.
789. *Polygala pauciflora* Willd. Fringed Milkwort. Stark County.

Euphorbiaceae. Spurge Family.

790. *Phyllanthus carolinensis* Walt. Carolina Phyllanthus. Hamilton, Warren.
791. *Croton capitatus* Mx. Capitulate Croton. Hamilton, Franklin.

792. *Croton monanthogynus* Mx. Single-fruited Croton. Franklin County.
793. *Acalypha virginica* L. Virginia Three-seeded Mercury. General.
794. *Acalypha gracilens* Gr. Slender Three-seeded Mercury. Rather general.
795. *Acalypha ostryaefolia* Ridd. Hornbeam Three-seeded Mercury. Washington County.
796. *Mercurialis annua* L. Mercury. Lake County. Introduced.
797. *Ricinus communis* L. Castor-oil-plant. Erie, Ottawa, Franklin. Escaped.
798. *Poinsettia dentata* (Mx.) Small. Toothed Spurge. Lake, Cuyahoga, Ottawa, Lucas, Franklin, Greene, Warren, Hamilton.
799. *Tithymalus lathyrus* (L.) Hill. Caper Spurge. Hocking County. From Europe.
800. *Tithymalus obtusatus* (Pursh) K. & G. Bluntleaf Spurge. Lucas, Wyandot, Auglaize, Jackson, Hamilton.
801. *Tithymalus platyphyllus* (L.) Hill. Broadleaf Spurge. Ash-tabula, Cuyahoga. From Europe.
802. *Tithymalus helioseopia* (L.) Hill. Sun Spurge. Lake County. From Europe.
803. *Tithymalus cyparissias* (L.) Hill. Cypress Spurge. General. From Europe.
804. *Tithymalus peplus* (L.) Hill. Petty Spurge. Clark, Erie, Summit, Lake. From Europe.
805. *Tithymalus commutatus* (Eng.) K. & G. Tinted Spurge. General.
806. *Tithymalus corollata* (L.) K. & G. Flowering Spurge. General and abundant.
807. *Dichrophyllum marginatum* (Pursh) K. & G. Snow-on-the-mountain. Lake, Cuyahoga, Erie, Auglaize, Franklin, Clark, Montgomery, Hamilton. From the West.
808. *Chamaesyce preslii* (Guss.) Arth. Nodding Spurge. General and abundant.
809. *Chamaesyce rafinesqui* (Greene) Small. Hairy Spurge. Defiance, Vinton.
810. *Chamaesyce humistrata* (Eng.) Small. Hairy Spreading Spurge. Cuyahoga, Erie, Belmont, Champaign.
811. *Chamaesyce maculata* (L.) Small. Spotted Spurge. Rather general.

812. *Chamaesyce polygonifolia* (L.) Small. Knotweed Spurge. Erie, Cuyahoga, Lake.
813. *Chamaesyce serpens*. (H. B. K.) Small. Roundleaf Spurge. Ottawa County.

Callitrichaceae. Water-starwort Family.

814. *Callitriche austini* Eng. Terrestrial Water-starwort. Cuyahoga, Clermont.
815. *Callitriche palustris* L. Vernal Water-starwort. Auglaize, Lorraine, Trumbull.
816. *Callitriche heterophylla* Pursh. Larger Water-starwort. Cuyahoga County.

Order, *Malvales*.

Malvaceae. Mallow Family.

817. *Malva sylvestris* L. High Mallow. Cuyahoga, Auglaize. From Europe.
818. *Malva rotundifolia* L. Roundleaf Mallow. General and abundant. From Europe.
819. *Malva verticillata* L. Curled Mallow. No specimens. From Europe.
820. *Malva alica* L. European Mallow. Escaped in Cuyahoga County. From Europe.
821. *Malva moschata* L. Musk Mallow. Northern part of the state, as far south as Muskingum County. From Europe.
822. *Callirhoe involucrata* (T. & G.) Gr. Purple Poppy-mallow. A waif in Franklin County.
823. *Althaea officinalis* L. Marsh-mallow. A waif in Scioto County.
824. *Althaea rosea* L. Hollyhock. Lucas, Erie, Madison, Brown, Montgomery, Scioto. Escaped from cultivation.
825. *Sida spinosa* L. Prickly Sida. Rather general. From the tropics.
826. *Sida hermaphrodita* (L.) Rusby. Tall Sida. No specimens.
827. *Napaea dioica* L. Glade-mallow. Defiance, Clark, Madison, Franklin, Fairfield, Highland.
828. *Abutilon abutilon* (L.) Rusby. Velvet-leaf. General and abundant. From Asia.
829. *Hibiscus moscheutos* L. Swamp Rose-mallow. Ashtabula, Cuyahoga, Erie, Wayne, Licking, Perry.

830. *Hibiscus militaris* Cav. Halberd-leaf Rose-mallow. Lucas, Paulding, Anglaize, Defiance, Shelby, Franklin.
831. *Hibiscus trionum* L. Bladder Ketmia. General. From Europe.

Tiliaceae. Linden Family.

832. *Tilia americana* L. American Linden. General and abundant.
833. *Tilia heterophylla* Vent. White Linden. Hamilton, Scioto.
834. *Tilia michauxii* Nutt. Michaux's Linden. No specimens.

Order, *Violales*.

Hypericaceae. St. John's-wort Family.

835. *Hypericum ascyron* L. Great St. John's-wort. Rather general.
836. *Hypericum kalmianum* L. Kalm's St. John's-wort. Ottawa, Erie, Summit.
837. *Hypericum prolificum* L. Shrubby St. John's-wort. Rather general.
838. *Hypericum perforatum* L. Common St. John's-wort. General. From Europe.
839. *Hypericum punctatum* Lam. Spotted St. John's-wort. General.
840. *Hypericum cistifolium* Lam. Round-podded St. John's-wort. Montgomery, Clermont, Franklin.
841. *Hypericum ellipticum* Hook. Elliptic-leaf St. John's-wort. Lake County.
842. *Hypericum virgatum* Lam. Virgate St. John's-wort. Jackson County.
843. *Hypericum boreale* (Britt.) Bickn. Northern St. John's-wort. Geauga, Defiance, Wayne.
844. *Hypericum mutilum* L. Small-flowered St. John's-wort. General.
845. *Hypericum gymnanthum* Eng. & Gr. Claspingleaf St. John's-wort. Erie, Ottawa.
846. *Hypericum majus* (Gr.) Britt. Large Canadian St. John's-wort. (Erie County—Moseley Herbarium.)
847. *Hypericum canadense* L. Canadian St. John's-wort. (Erie County—Moseley Herbarium.)
848. *Hypericum drummondii* (Grev. & Hook.) T. & G. Drummond's St. John's-wort. Hamilton, Clermont, Ashtabula, Hocking.
849. *Sarothra gentianoides* L. Orange-grass. Erie, Gallia, Scioto.
850. *Triadenum virginicum* (L.) Raf. Marsh St. John's-wort. Cuyahoga, Geauga, Erie, Huron, Wayne, Licking.

851. *Aseyrum hypericoides* L. St. Andrew's-cross. Hamilton, Scioto, Lawrence, Gallia, Jackson, Hocking, Fairfield.

Cistaceae. Rock-rose Family.

852. *Crocanthemum majus* (L.) Britt. Hoary Frostweed. Lucas, Portage, Fairfield.
853. *Crocanthemum canadense* (L.) Mx. Canada Frostweed. Erie, Lucas, Wood.
854. *Lechea minor* L. Thyme-leaf Pinweed. Jefferson, Hocking, Perry.
855. *Lechea racemulosa* Mx. Oblong-fruited Pinweed. Adams, Scioto, Jackson, Hocking, Fairfield, Licking, Lucas.
856. *Lechea villosa* Ell. Hairy Pinweed. Summit, Wayne, Erie, Lucas.
857. *Lechea tenuifolia* Mx. Narrow-leaf Pinweed. Lucas.
858. *Lechea leggettii* Britt & Holl. Leggett's Pinweed. No specimens.
859. *Lechea stricta* Legg. Prairie Pinweed. Portage County.

Violaceae. Violet Family.

860. *Cubelium concolor* (Forst.) Raf. Green Violet. Southern half of state to Auglaize, Licking, and Belmont Counties; also in Lake County.
861. *Viola canadensis* L. Canada Violet. Southeastern half of state; from Huron to Fairfield and Hamilton Counties.
862. *Viola eriocarpa* Schw. Smooth Yellow Violet. General.
863. *Viola pubescens* Ait. Hairy Yellow Violet. General.
864. *Viola hastata* Mx. Halberd-leaf Yellow Violet. Cuyahoga, Lake, Portage, Columbiana, Belmont.
865. *Viola striata* Ait. Striped Violet. General and abundant.
866. *Viola conspersa* Reich. American Dog Violet. Lucas, Wyandot, Lorain, Portage, Trumbull.
867. *Viola rostrata* Pursh. Long-spurred Violet. Rather general.
868. *Viola rafinesquii* Greene. Wild Pansy. Hamilton, Montgomery, Miami, Pike, Ross, Franklin, Ottawa, Erie, Lake.
869. *Viola tricolor* L. Garden Pansy. Cuyahoga, County. From Europe.
870. *Viola odorata* L. Sweet Violet. Lake, Franklin. From Europe.
871. *Viola rotundifolia* Mx. Roundleaf Violet. Ashtabula, Cuyahoga, Tuscarawas, Hocking.

872. *Viola blanda* Willd. Sweet White Violet. Rather general.
 873. *Viola pallens* (Banks) Brain. Woodland White Violet. Cuyahoga, Hancock, Fairfield, Vinton.
 874. *Viola lanceolata* L. Lanceleaf Violet. Lake, Fairfield.
 875. *Viola affinis* Le C. Thinleaf Blue Violet. General and abundant.
 876. *Viola papilionacea* Pursh. Common Blue Violet. General and abundant.
 877. *Viola hirsutula* Brain. Southern Wood Violet. Hoeking, Fairfield.
 878. *Viola sororia* Willd. Woolly blue Violet. Lake, Portage, Belmont, Wood Warren,
 879. *Viola palmata* L. Early Blue Violet. General and abundant.
 880. *Viola triloba* Schw. Three-lobed Violet. Lake County.
 881. *Viola emarginata* (Nutt.) Le Conte. Triangle-leaf Violet. Lake County.
 882. *Viola pedatifida* Don. Larkspur Violet. Ottawa, Anglaize.
 883. *Viola fimbriatula* Sm. Ovate-leaf Violet. Wood, Licking, Jefferson, Wayne, Portage, Cuyahoga, Lake.
 884. *Viola sagittata* Ait. Arrowleaf Violet. Franklin, Fulton, Erie, Lorain, Cuyahoga.
 885. *Viola pedata* L. Birdfoot Violet. Lawrence, Scioto.

Passifloraceae. Passionflower Family.

886. *Passiflora lutea* L. Yellow Passion-flower. Southern half of state to Darke and Franklin Counties.

Subclass, CENTROSPERMAE.

Order, *Caryophyllales*.

Caryophyllaceae. Pink Family.

Subfamily, ALSINATAE.

887. *Sagina procumbens* L. Procumbent Pearlwort. Lake, Gallia. From Europe.
 888. *Sagina decumbens* (Ell.) T. & G. Decumbent Pearlwort. Lawrence County.
 889. *Arenaria serpyllifolia* L. Thyme-leaf Sandwort. General. From Europe.
 890. *Arenaria stricta* Mx. Rock Sandwort. Ottawa, Erie, Cuyahoga, Clark, Franklin.
 891. *Arenaria patula* Mx. Pitcher's Sandwort. Montgomery County.

892. *Moehringia lateriflora* (L.) Feenzl. Bluntleaf Moeringia. Ottawa, Auglaize, Morrow, Perry, Franklin, Darke.
893. *Holosteum umbellatum* L. Jagged Chickweed. Hamilton County. From Europe.
894. *Alsine aquatica* (L.) Britt. Water Chickweed. Guernsey County. From Europe.
895. *Alsine media* L. Common Chickweed. General and abundant. From Europe.
896. *Alsine pubera* (Mx.) Britt. Great Chickweed. Southern Ohio as far north as Preble and Fairfield Counties.
897. *Alsine longifolia* (Muhl.) Britt. Longleaf Stichwort. General.
898. *Alsine graminea* (L.) Britt. Lesser Stichwort. Cuyahoga, Auglaize, Belmont. From Europe.
899. *Cerastium vulgatum* L. Common Mouse-ear Chickweed. General. From Europe.
900. *Cerastium longipedunculatum* Muhl. Nodding Chickweed. General.
901. *Cerastium arvense* L. Field Chickweed. Monroe, Trumbull, Ottawa, Sandusky, Miami.
- 901a. *Cerastium arvense webbii* Jennings. Cuyahoga County.
902. *Cerastium velutinum* Raf. Barren Chickweed. Erie, Monroe.
903. *Spergula arvensis* L. Corn Spurry. Lake County. From Europe.
904. *Tissa rubra* (L.) Britt. Sand Spurry. Lake County. From Europe.

Subfamily, CARYOPHYLLATAE.

905. *Agrostemma githago* L. Corn Cockle. General. From Europe.
906. *Lychnis coronaria* (L.) Desv. Mullen Pink. Lake, Cuyahoga, Portage, Fairfield. From Europe.
907. *Lychnis viscaria* L. Viscid Lychnis. Lake County. Escaped.
908. *Lychnis alba* Mill. White Lychnis. Lake, Wayne, Noble, Meigs. From Europe.
909. *Lychnis dioica* L. Red Lychnis. From Europe. (Erie County—Moseley Herbarium.)
910. *Silene stellata* (L.) Ait. Starry Campion. General.
911. *Silene alba* Muhl. White Campion. Butler, Clermont.
912. *Silene latifolia* (Mill.) Britt & Rend. Bladder Campion. Erie County. From Europe.

913. *Silene virginica* L. Fire Pink. General.
914. *Silene rotundifolia* Nutt. Roundleaf Catchfly. Hocking, Jackson.
915. *Silene armeria* L. Sweet William Catchfly. Monroe, Licking, Cuyahoga, Lake. From Europe.
916. *Silene noctiflora* L. Night-blooming Catchfly. Greene, Auglaize, Lucas, Sandusky, Erie, Cuyahoga, Lake, Belmont, Jefferson. From Europe.
917. *Silene dichotoma* Ehrh. Forked Catchfly. Noble County, (Ottawa County—Moseley Herbarium). From Europe.
918. *Silene conica* L. Striate Catchfly. Sandusky County. From Europe.
919. *Silene regia* Sims. Royal Catchfly. Clark, Madison.
920. *Silene caroliniana* Walt. Carolina Catchfly. Washington, Monroe, Jefferson.
921. *Silene antirrhina* L. Sleepy Catchfly. General.
922. *Saponaria officinalis* L. Bouncing-Bet. General. From Europe.
923. *Vaccaria vaccaria* (L.) Britt. Cowherb. Ashtabula, Lake. From Europe.
924. *Dianthus prolifer* L. Proliferous Pink. Cuyahoga County. From Europe.
925. *Dianthus armeria* L. Deptford Pink. Jefferson, Gallia, Licking. From Europe.
926. *Dianthus deltoides* L. Maiden Pink. Lake County. Escaped.
927. *Dianthus barbatus* L. Sweet William. Portage County. From Europe.

Aizoaceae. Carpetweed Family.

928. *Mollugo verticillata* L. Carpetweed. General. From the South.

Portulacaceae. Purslane Family.

929. *Claytonia virginica* L. Spring-beauty. General and abundant.
930. *Limnium perfoliatum* (Dumr.) Haw. Spanish-lettuce. No specimens. From the West.
931. *Portulaca oleracea* L. Purslane. Hamilton, Fayette, Auglaize, Holmes, Huron, Erie, Franklin. From the Southwest.
932. *Portulaca grandiflora* Hook. Garden Portulaca. Auglaize, Franklin. Escaped.

Nyctaginaceae. Four-o'clock Family.

933. *Allionia nyctaginea* Mx. Heartleaf Umbrella-wort. Hamilton, Montgomery, Greene, Champaign, Monroe, Erie. From the West.
934. *Allionia hirsuta* Pursh. Hairy Umbrella-wort. Ashtabula County. From the West.
935. *Mirabilis jalapa* L. Four-o'clock. Persistent in Franklin County.

Phytolaccaceae. Pokeweed Family.

936. *Phytolacca americana* L. Pokeweed. General and abundant.

Order, *Chenopodiales*.**Corrigiolaceae.** Whitlow-wort Family.

937. *Anychia polygonoides* Raf. Forked Anychia. Southern part of state as far north as Franklin, Holmes, and Belmont Counties; also in Ottawa and Erie Counties.
938. *Anychia canadensis* (L.) B. S. P. Slender Anychia. General.
939. *Scleranthus ammus* L. Knawel. Lake County. From Europe.

Amaranthaceae. Amaranth Family.

940. *Celosia cristata* L. Cock's-comb. Franklin County. Persistent.
941. *Amaranthus retroflexus* L. Rough Pigweed. General and abundant. From tropical America.
942. *Amaranthus hybridus* L. Slender Pigweed. General. From tropical America.
943. *Amaranthus spinosus* L. Spiny Amaranth. Southern half of state. From tropical America.
944. *Amaranthus graecizans* L. Tumble-weed (Amaranth). Western half of state, from Hamilton to Franklin and Lake Counties.
945. *Amaranthus blitoides* Wats. Mat Amaranth. General. From the West.
946. *Acnida tuberculata* Moq. Tubercled Water-hemp. Rather general.
947. *Acnida tamariscina* (Nutt.) Wood. Western Water-hemp. Franklin, Clinton. From the West.
948. *Iresine paniculata* (L.) Ktz. Bloodleaf. No specimens.
949. *Gomphrena globosa* L. Globe-amaranth. Wood County. Escaped from gardens.

Chenopodiaceae. Goosefoot Family.

950. *Chenopodium album* L. Lamb's-quarter. General and abundant. From Europe.
951. *Chenopodium glaucum* L. Oakleaf Goosefoot. Summit, Erie, Ottawa, Lucas, Anglaize. From Europe.
952. *Chenopodium leptophyllum* (Moq.) Nutt. Narrowleaf Goosefoot. Lake, Lorain.
953. *Chenopodium vulvaria* L. Fetid Goosefoot. Lorain County. From Europe.
954. *Chenopodium polyspermum* L. Many-seeded Goosefoot. Lake County. From Europe.
955. *Chenopodium boscianum* Moq. Bose's Goosefoot. Washington, Meigs, Ross, Franklin, Miami, Ottawa, Erie.
956. *Chenopodium murale* L. Nettle-leaf Goosefoot. Rather general. From Europe.
957. *Chenopodium hybridum* L. Maple-leaf Goosefoot. Rather general.
958. *Chenopodium botrys* L. Feather Geranium. Rather general. From Europe.
959. *Chenopodium ambrosioides* L. Mexican Tea. Rather general. From tropical America.
960. *Blitum capitatum* L. Strawberry Blite. Summit County.
961. *Spinacia oleracea* L. Common Spinach. Lorain County. Escaped from gardens.
962. *Cycloloma atriplicifolium* (Spreng.) Coult. Tumbleweed. Erie, Lake. From the West.
963. *Kochia scoparia* (L.) Roth. Mock-cypress. Morgan, Franklin, Cuyahoga. From Europe.
964. *Atriplex hastata* L. Halberd-leaf Orache. General.
965. *Atriplex rosea* L. Red Orache. Erie County. From Europe.
966. *Salsola pestifer* Nels. Russian-thistle. Williams, Lucas, Anglaize, Ottawa, Erie, Wayne, Cuyahoga, Lake, Portage. From Europe.

Order, *Polygonales*.**Polygonaceae.** Buckwheat Family.

967. *Rumex altissimus* Wood. Tall Doek. Rather general.
968. *Rumex verticillatus* L. Swamp Doek. Rather general.
969. *Rumex mexicanus* Meisn. Willow-leaf Doek. Allen County.

970. *Rumex patientia* L. Patience Dock. From Europe. No specimens.
971. *Rumex britannica* L. Great Water Dock. Williams, Erie, Coshocton, Licking, Franklin, Hocking, Champaign.
972. *Rumex crispus* L. Curled Dock. Naturalized from Europe. General and abundant.
973. *Rumex conglomeratus* Murr. Clustered Dock. Lake County. From Europe.
974. *Rumex obtusifolius* L. Broadleaf Dock. Naturalized from Europe. General and abundant.
975. *Rumex acetosella* L. Sheep Sorrel. General and abundant. From Europe.
976. *Pleuropterus zuccarini* Small. Japanese Knotweed. Cuyahoga County. From Japan.
977. *Tiliaria convolvulus* (L.) W. & M. Black Bindweed. General. Naturalized from Europe.
978. *Tiliaria scandens* (L.) Small. Climbing False Buckwheat. General.
979. *Tiliaria dumetorum* (L.) Opiz. Copse False Buckwheat. From Europe. (Erie, Ottawa—Moseley Herbarium.)
980. *Tracaulon arifolium* (L.) Raf. Halberd-leaf Tear-thumb. Northern part of state as far south as Anglaize and Belmont Counties.
981. *Tracaulon sagittatum* (L.) Small. Arrow-leaf Tear-thumb. General.
982. *Fagopyrum fagopyrum* (L.) Karst. Buckwheat. From Europe. General.
983. *Persicaria amphibia* (L.) S. F. Gr. Water Persicaria. Summit, Fairfield, Ottawa, Stark, Franklin, Clark.
984. *Persicaria muhlenbergii* (Wats.) Small. Swamp Persicaria. Northern half of state to Shelby and Perry Counties.
985. *Persicaria lapathifolia* (L.) S. F. Gray. Pale Persicaria. General. Naturalized from Europe.
986. *Persicaria pennsylvanica* (L.) Small. Pennsylvania Persicaria. General and abundant.
987. *Persicaria careyi* (Olney) Greene. Carey's Persicaria. Erie County.
988. *Persicaria persicaria* (L.) Small. Lady's-thumb. General and abundant. Naturalized from Europe.

989. *Persicaria hydropiperoides* (Mx.) Small. Mild Smartweed. General.
990. *Persicaria hydropiper* (L.) Opiz. Water Smartweed. General. From Europe.
991. *Persicaria punctata* (Ell.) Small. Dotted Smartweed. General.
992. *Persicaria orientalis* (L.) Spach. Prince's-feather. Lucas, Montgomery, Franklin, Hocking, Meigs, Scioto. Native of India.
993. *Tovara virginiana* (L.) Raf. Virginia Knotweed. General.
994. *Polygonum aviculare* L. Doorweed. General and abundant.
995. *Polygonum buxiforme* Small. Shore Knotweed. Wayne County.
996. *Polygonum erectum* L. Erect Knotweed. Lake, Richland, Franklin, Muskingum, Morgan, Hocking, Athens, Meigs, Warren, Clermont.
997. *Polygonum ramosissimum* Mx. Bushy Knotweed. Lake, Franklin. Waifs from the West.
998. *Polygonum tenue* Mx. Slender Knotweed. Erie County.

Order, *Piperales*.**Saururaceae.** Lizard's-tail Family.

999. *Saururus cernuus* L. Lizard's-tail. General.

Subclass, CALYCIFLORAE.

Order, *Rosales*.**Rosaceae.** Rose Family.

Subfamily, ROSATAE.

1000. *Geum rivale* L. Purple Avens. Champaign, Geauga.
1001. *Geum canadense* Jacq. White Avens. General.
1002. *Geum flavum* (Port.) Bickn. Cream-colored Avens. No specimens.
1003. *Geum virginianum* L. Rough Avens. General.
1004. *Geum strictum* Ait. Yellow Avens. Eastern half of state; also in Preble County.
1005. *Geum vernum* (Raf.) T. & G. Spring Avens. General.
1006. *Dasiphora fruticosa* (L.) Rydb. Shrubby Cinquefoil. Rather general.
1007. *Potentilla paradoxa* Nutt. Bushy Cinquefoil. Erie County.
1008. *Potentilla argentea* L. Silvery Cinquefoil. Portage, Cuyahoga, Erie, Licking.

1009. *Potentilla recta* L. Upright Cinquefoil. Lake, Erie, Franklin, Hoeking. From Europe.
1010. *Potentilla monspeliensis* L. Rough Cinquefoil. General.
1011. *Potentilla canadensis* L. Common Five-finger. General and abundant.
1012. *Potentilla pumila* Poir. Dwarf Five-finger. Lake, Monroe, Vinton.
1013. *Potentilla reptans* L. European Five-finger. Lake County. From Europe.
1014. *Argentina anserina* (L.) Rydb. Silverweed. Cuyahoga, Lorain, Erie, Ottawa, Lucas, Hamilton.
1015. *Comarum palustre* L. Purple Marshlocks. Ashtabula, Lorain, Portage, Summit, Ashland, Stark, Licking.
1016. *Drynocallis agrimonioides* (Pursh.) Rydb. Tall Cinquefoil. Erie, Cuyahoga, Lake.
1017. *Waldsteinia fragarioides* (Mx.) Tratt. Dry Strawberry. Ashtabula, Cuyahoga, Portage, Medina, Clark, Franklin, Greene.
1018. *Fragaria americana* (Port.) Britt. American Wood Strawberry. Rather general.
1019. *Fragaria vesca* L. European Wood Strawberry (white-fruited variety). Belmont, Hoeking. From Europe.
1020. *Fragaria virginiana* Duch. Virginia Strawberry. General and abundant.
1021. *Rubus frondosus* Bigel. Leafy-flowered Blackberry. Lake, Columbiana, Coshocton, Hancock, Gallia.
1022. *Rubus alleghaniensis* Port. High Blackberry. General and abundant.
1023. *Rubus procerus* Muhl. Common Dewberry. General.
1024. *Rubus hispidus* L. Hispid Dewberry. Ashtabula, Lake, Portage, Summit, Geauga, Cuyahoga, Lucas, Logan.
1025. *Rubus occidentalis* L. Black Raspberry. General and abundant.
1026. *Rubus neglectus* Peck. Purple Raspberry. Ashtabula, Stark, Defiance, Williams.
1027. *Rubus strigosus* Mx. Wild Red Raspberry. Summit, Erie, Clark.
1028. *Rubus triflorus* Richards. Dwarf Raspberry. Lake, Stark, Lucas, Wood, Sandusky, Wyandot, Champaign, Fairfield, Vinton, Brown.

1029. *Rubus phoenicolasius* Max. Wineberry. Lake County. Escaped from cultivation.
1030. *Rubus odoratus* L. Rose-flowered Raspberry. Lake, Cuyahoga, Ashtabula, Summit, Belmont, Jefferson, Monroe, Muskingum, Fairfield.
1031. *Porteranthus trifolius* (L.) Britt. Indian-physic. No specimens.
1032. *Porteranthus stipulatus* (Muhl.) Britt. American Ipecac. Southern Ohio to Clinton and Guernsey Counties.
1033. *Schizonotus sorbifolius* (L.) Lindl. Mountain-ash Spiraea. Lake Harrison. From Asia.
1034. *Filipendula rubra* (Hill.) Rob. Queen-of-the-prairie. Cuyahoga, Erie, Madison, Champaign, Holmes.
1035. *Opulaster opulifolius* (L.) Ktz. Ninebark. General.
1036. *Spiraea alba* DuRoi. Narrowleaf Spiraea. General.
1037. *Spiraea tomentosa* L. Steeple-bush. Eastern half of state west to Cuyahoga, Fairfield, and Jackson Counties; also in Lucas County.
1038. *Aruncus aruncus* (L.) Karst. Aruncus. Southeastern part of state to Columbiana, Licking, and Scioto Counties.
1039. *Dalibarda repens* L. Dalibarda. Ashtabula County.
1040. *Rosa blanda* Ait. Smooth Rose. Lake, Lorain, Erie, Williams, Mercer, Clinton, Clermont.
1041. *Rosa carolina* L. Swamp Rose. General and abundant.
1042. *Rosa virginiana* Mill. Virginia Rose. General and abundant.
1043. *Rosa rubiginosa* L. Sweetbrier (Rose). General. From Europe.
1043. *Rosa rubiginosa* L. Sweetbrier (Rose). General. From Europe.
1044. *Rosa gallica* L. French Rose. Lake County. Escaped.
1046. *Agrimonia parviflora* Sol. Small-flowered Agrimony. General.
1047. *Agrimonia gryposepala* Wallr. Hairy Agrimony. General.
1048. *Agrimonia rostellata* Wallr. Woodland Agrimony. Rather general.
1049. *Agrimonia striata* Mx. Striate Agrimony. Clinton County.
1050. *Agrimonia mollis* (T. & G.) Britt. Soft Agrimony. Rather general.
1051. *Sanguisorba canadensis* L. American Burnet. Lake, Cuyahoga, Stark, Miami, Champaign, Clark, Franklin.
1052. *Poterium sanguisorba* L. Garden Burnet. Lake County. From Europe.

Subfamily, MALATAE.

1053. *Sorbus scopulina* Greene. Western Mountain-ash. Ashtabula, Ottawa.
- 1053.1. *Sorbus aucuparia* L. European Mountain-ash. Lake, Crawford, Escaped.
1054. *Pyrus communis* L. Pear. Ashtabula, Cuyahog, Summit, Preble, Franklin, Brown. From Europe.
1055. *Malus glaucescens* Rehd. American Crab-apple. General.
1056. *Malus coronaria* (L.) Mill. Narrow-leaf Crab-apple. Rather general.
1057. *Malus malus* (L.) Britt. Common Apple. General. From Europe.
1058. *Aronia arbutifolia* (L.) Ell. Red Chokeberry. Ashtabula, Geauga, Stark, Licking, Wood.
1059. *Aronia atropurpurea* Britt. Purple Chokeberry. Licking County.
1060. *Aronia melanocarpa* (Mx.) Britt. Black Chokeberry. Rather general.
1061. *Amelanchier canadensis* (L.) Med. Common Juneberry. General.
1062. *Amelanchier sanguinea* (Pursh.) DC. Roundleaf Juneberry. Highland, Franklin, Erie, Lorain.
1063. *Crataegus crus-galli* L. Cockspur Hawthorn. General.
1064. *Crataegus cuneiformis* (Marsh.) Eggl. Marshall's Hawthorn. Rather general.
1065. *Crataegus punctata* Jacq. Dotted Hawthorn. General.
1066. *Crataegus margaretta* Ashe. Margaret Hawthorn. From Adams, Franklin, and Lucas Counties westward.
1067. *Crataegus succulenta* Schrad. Long-spined Hawthorn. General.
1068. *Crataegus calpodendron* (Ehrh.) Medic. Pear Hawthorn. General.
1069. *Crataegus brainerdi* Sarg. Brainerd's Hawthorn. Lucas, Richland.
1070. *Crataegus chrysoearpa* Ashe. Roundleaf Hawthorn. Williams County.
1071. *Crataegus straminea* Beadle. Allegheny Hawthorn. Knox, Franklin, Hocking.
1072. *Crataegus boyntoni* Beadle. Boynton's Hawthorn. Adams, Morgan, Noble, Guernsey, Tuscarawas.

1073. *Crataegus macrosperma* Ashe. Large-seeded Hawthorn. General.
1074. *Crataegus leiophylla* Sarg. Maine's Hawthorn. Jefferson County.
1075. *Crataegus beata* Sarg. Dunbar's Hawthorn. Lucas, Brown.
1076. *Crataegus pruinosa* (Wendl.) Koch. Pruinose Hawthorn. General.
1077. *Crataegus pringlei* Sarg. Pringle's Hawthorn. Williams County.
1078. *Crataegus coccinea* L. Scarlet Hawthorn. General, but no specimens from the northern counties.
1079. *Crataegus albicans* Ashe. Tatnall's Hawthorn. Brown, Ross, Jefferson, Ashtabula, Lake, Lucas.
1080. *Crataegus mollis* (T. & G.) Scheele. Downy Hawthorn. General.
1081. *Crataegus monogyna* Jacq. May Hawthorn. Williams, Lake, Cuyahoga, Medina, Franklin. From Europe.
1082. *Crataegus phaenopyrum* (L. f.) Medic. Washington Hawthorn. Jefferson County.
1083. *Cotoneaster pyracantha* (L.) Spach. Fire-thorn. Franklin County. From Europe.

Subfamily, AMYGDALATAE.

1084. *Prunus virginiana* L. Black Cherry. (Padus). General and abundant.
1085. *Prunus nana* DuRoi. Choke Cherry. (Padus). Rather general.
1086. *Prunus mahaleb* L. Mahaleb Cherry. Lake, Franklin. From Europe.
1087. *Prunus pennsylvanica* L. f. Red Cherry. Cuyahoga County.
1088. *Prunus avium* L. Sweet Cherry. Ashtabula, Cuyahoga, Erie, Ottawa, Summit, Ross. From Europe.
1089. *Prunus cerasus* L. Sour Cherry. Cuyahoga, Summit, Jefferson, Gallia, Clinton. From Europe.
1090. *Prunus emeata* Raf. Appalaehian Cherry. No specimens.
1091. *Prunus pumila* L. Sand Cherry. Erie County.]
1092. *Prunus americana* Marsh. Wild Plum. General and abundant.
1093. *Amygdalus persica* L. Peach. Rather general. Native of Asia.

Fabaceae. Bean Family.

Subfamily, MIMOSATAE.

1094. *Acanthillinoensis* (Mx.) Ktze. Illinois Acanth. Hamilton, Clermont, Ashtabula.

Subfamily, CASSIATAE.

1095. *Cercis canadensis* L. Redbud. Rather general, but no specimen from the northeastern counties except Carroll.
1096. *Cassia marylandica* L. Wild Senna. General.
1097. *Cassia medsgeri* Shaf. Medsger's Senna. Stark, Washington, Monroe, Franklin, Ottawa.
1098. *Chamaecrista nictitans* (L.) Moench. Sensitive-pea. Adams, Butler, Gallia, Scioto, Jackson, Hocking, Fairfield, Licking, Stark.
1099. *Chamaecrista fasciculata* (Mx.) Greene. Large-flowered Sensitive-pea. Rather general in western half of state; also in Lake County.
1100. *Gleditsia triacanthos* L. Honey-locust. General.
1101. *Gymnocladus dioica* (L.) Koch. Coffee-bean. General.

Subfamily, FABATAE.

1102. *Baptisia australis* (L.) R. Br. Blue Wild-indigo. Hamilton, Meigs, Monroe, Lake.
1103. *Baptisia tinctoria* (L.) R. Br. Yellow Wild-indigo. Trumbull, Lake, Portage, Cuyahoga, Erie, Lucas, Wood.
1104. *Baptisia leucantha* T. & G. Large White Wild-indigo. Franklin, Crawford, Erie, Defiance.
1105. *Crotalaria sagittalis* L. Rattlebox. Franklin County. A waif.
1106. *Lupinus perennis* L. Wild Lupine. Portage, Erie, Sandusky, Wood, Fulton.
1107. *Medicago sativa* L. Alfalfa. Rather general. From Europe.
1108. *Medicago lupulina* L. Hop Medic. General. From Europe.
1109. *Medicago hispida* Gaertn. Toothed Medic. Lake County. From Europe.
1110. *Melilotus alba* Desv. White Sweet-clover. General and abundant. From Europe.
1111. *Melilotus officinalis* (L.) Lam. Yellow Sweet-clover. Rather general. From Europe.
1112. *Trifolium agrarium* L. Yellow Hop Clover. Ashtabula, Lake, Cuyahoga, Knox, Clermont, From Europe.
1113. *Trifolium procumbens* L. Low Hop Clover. Lake, Cuyahoga, Ottawa, Franklin, Montgomery, Gallia. From Europe.
1114. *Trifolium dubium* Sibth. Least Hop Clover. Rather general. From Europe.

1115. *Trifolium incarnatum* L. Crimson Clover. Rather general. From Europe.
1116. *Trifolium arvense* L. Rabbit-foot Clover. Warren, Stark, Cuyahoga, Lake. From Europe.
1117. *Trifolium pratense* L. Red Clover. General and abundant. Naturalized from Europe.
1118. *Trifolium reflexum* L. Buffalo Clover. No specimens.
1119. *Trifolium stoloniferum* Muhl. Running Buffalo Clover. Hamilton, Clermont, Butler, Clinton, Clark, Franklin.
1120. *Trifolium hybridum* L. Alsike Clover. General. Introduced from Europe.
1121. *Trifolium repens* L. White Clover. General and abundant. Naturalized from Europe.
1122. *Lotus corniculatus* L. Bird's-foot Trefoil. Lake County. From Europe.
1123. *Hosackia americana* (Nutt.) Piper. Prairie Bird's-foot. Trefoil. Franklin county. A waif from the west.
1124. *Psoralea stipulata* T & G. Large-stipuled Psoralea. No specimen.
1125. *Psoralea pedunculata* (Mill.) Vail. Long-peduncled Psoralea. Erie, Scioto, Lawrence.
1126. *Psoralea onobrychis* Nutt. Sainfoin Psoralea. In the southwestern fourth of the state.
1127. *Amorpha fruticosa* L. False Indigo. Lucas County.
1128. *Petalostemum purpureum* (Vent.) Rydb. Violet Prairie-clover. A waif in Franklin County.
1129. *Cracca virginiana* L. Goat's-rue. Fulton, Lucas, Erie, Portage, Fairfield, Hocking, Washington, Jackson, Lawrence, Adams, Hamilton.
1130. *Robinia pseudoacacia* L. Common Locust. General.
1131. *Robinia viscosa* Vent. Clammy Locust. Ashtabula, Lake, Cuyahoga, Fairfield.
1132. *Astragalus carolinianus* L. Carolina Milk-vetch. Rather general.
1133. *Phaca neglecta* T. & G. Cooper's Milk-vetch. Ashtabula, Cuyahoga, Hamilton.
1134. *Coronilla varia* L. Coronilla. Lake, Brown. From Europe.
1135. *Stylosanthes biflora* (L.) B. S. P. Pencil-flower. Adams, Scioto, Lawrence, Gallia, Jackson, Hocking.

1136. *Meibomia nudiflora* (L.) Ktz. Naked-flowered Tick-trefoil. General.
1137. *Meibomia grandiflora* (Walt.) Ktz. Pointed-leaf Tick-trefoil. General.
1138. *Meibomia pauciflora* (Nutt.) Ktz. Few-flowered Tick-trefoil. Clermont, Clinton, Auglaize.
1139. *Meibomia michauxii* Vail. Prostrate Tick-trefoil. Rather general.
1140. *Meibomia sessilifolia* Torr.) Ktz. Sessile-leaf. Tick-trefoil. Erie, Wood.
1141. *Meibomia canescens* (L.) Ktz. Hoary Tick-trefoil. General.
1142. *Meibomia bracteosa* (Mx.) Ktz. Large-bracted Tick-trefoil. Rather general.
1143. *Meibomia paniculata* (L.) Ktz. Panicled Tick-trefoil. General.
1144. *Meibomia viridiflora* (L.) Ktz. Velvet-leaf Tick-trefoil. Gallia, Hocking, Cuyahoga.
1145. *Meibomia dillenii* (Darl.) Ktz. Dillen's Tick-trefoil. General.
1146. *Meibomia illinoensis* (Gr.) Ktz. Illinois Tick-trefoil. Erie, Ottawa,
1147. *Meibomia canadensis* (L.) Ktz. Canadian Tick-trefoil. Montgomery, Clark, Auglaize, Fulton, Wood, Erie, Cuyahoga.
1148. *Meibomia rigida* (Ell.) Ktz. Rigid Tick-trefoil. Paulding, Fairfield.
1149. *Meibomia marylandica* (L.) Ktz. Maryland Tick-trefoil. Hocking, Fairfield.
1150. *Meibomia obtusa* (Muhl.) Vail. Ciliate Tick-trefoil. Summit, Erie, Licking.
1151. *Lespedeza repens* (L.) Bart. Creeping Bush-clover. From Hocking, Franklin and Madison Counties southward; also in Cuyahoga County.
1152. *Lespedeza procumbens* Mx. Trailing Bush-clover. Fairfield, Wayne, Greene.
1153. *Lespedeza nuttallii* Darl. Nuttall's Bush-clover. (Moseley herbarium—Erie County.)
1154. *Lespedeza violacea* (L.) Pers. Violet Bush-clover. Rather general but no specimen from the northeastern counties.
1155. *Lespedeza stuvei* Nutt. Stuve's Bush-clover. No specimens. (Moseley Herbarium—Erie County).

1156. *Lespedeza frutescens* (L.) Britt. Wand-like Bush-clover. Rather general.
1157. *Lespedeza virginica* (L.) Britt. Slender Bush-clover. Scioto, Franklin, Erie.
1158. *Lespedeza simulata* Mack & Bush. Intermediate Bush-clover. No specimens.
1159. *Lespedeza hirta* (L.) Horn. Hairy Bush-clover. Rather general.
1160. *Lespedeza capitata* Mx. Round-headed Bush-clover. Defiance, Fulton, Wood, Ottawa, Erie, Cuyahoga, Franklin, Madison, Highland, Fairfield.
1161. *Vicia cracca* L. Cow Vetch. Cuyahoga, Lake, Columbiana, Wayne, Huron, Seneca.
1162. *Vicia americana* Muhl. American Vetch. Cuyahoga, Geauga, Erie, Ottawa, Lucas.
1163. *Vicia caroliniana* Walt. Carolina Vetch. In the northern and southern counties; also in Darke County.
1164. *Vicia tetrasperma* (L.) Moench. Slender Vetch. Lake County. From Europe.
1165. *Vicia hirsuta* (L.) Koch. Hairy Vetch. Lake, Sandusky, Knox. From Europe.
1166. *Vicia sativa* L. Common Vetch. Ottawa, Hamilton. From Europe.
1167. *Vicia angustifolia* L. Narrow-leaf Vetch. Lake County. From Europe.
1168. *Lathyrus maritimus* (L.) Bigel. Beach Pea. Ashtabula, Lake, Cuyahoga, Erie.
1169. *Lathyrus venosus* Muhl. Veiny Pea. Erie, Williams.
1170. *Lathyrus palustris* L. Marsh Pea. Lake, Cuyahoga, Summit, Wayne, Erie, Madison, Greene.
1171. *Lathyrus myrtifolius* Muhl. Myrtle-leaf Marsh Pea. Lake, Cuyahoga, Stark, Erie, Lucas, Defiance, Auglaize.
1172. *Lathyrus ochroleucus* Hook. Cream-colored Pea. Lake, Cuyahoga, Lorain, Ottawa.
1173. *Lathyrus pratensis* L. Meadow Pea. Lake County. From Europe.
1174. *Dolichos lablab* L. Hyacinth Bean. Franklin County. Escaped from gardens.
1175. *Glycine apios* L. Ground-nut. Rather general.
1176. *Falcata comosa* (L.) Ktz. Hog-peanut. General.

1177. *Falcata pitcheri* (T. & G.) Ktz. Pitcher's Hog-peanut. Rather general.
1178. *Phaseolus polystachyus* (L.) B. S. P. Wild Bean. No specimens.
1179. *Phaseolus namus* L. Bush Bean. Auglaize County. Introduced.
1180. *Strophostyles helvola* (L.) Britt. Trailing Wild Bean. In the lake shore counties and from Hocking County southward; also in Tuscarawas County.

Order, *Saxifragales*.

Crassulaceae. Orpine Family.

Subfamily, CRASSULATAE.

1181. *Sedum triphyllum* (Haw.) S. F. Gr. Live-forever. Williams, Erie, Knox, Coshocton, Franklin. From Europe.
1182. *Sedum telephioides* Mx. American Orpine. Adams County.
1183. *Sedum acre* L. Wall-pepper. Franklin, Ottawa. From Europe.
1184. *Sedum ternatum* Mx. Wild Stonecrop. General.

Subfamily, PENTHORATAE.

1185. *Penthorum sedoides* L. Ditch Stonecrop. General and abundant.

Podostemaceae. River-weed Family.

1186. *Podostemon ceratophyllum* Mx. River-weed. No specimens.

Saxifragaceae. Saxifrage Family.

1187. *Micranthes pennsylvanica* (L.) Haw. Pennsylvania Saxifrage. Fulton, Auglaize, Clark, Richland, Lorain, Geauga, Stark.
1188. *Micranthes virginicensis* (Mx.) Small. Early Saxifrage. Eastern half of state to Cuyahoga and Ross Counties; also in Hamilton County.
1189. *Sullivantia sullivantii* (T. & G.) Britt. Sullivantia. Adams, Highland, Hocking.
1190. *Tiarella cordifolia* L. False Mitrewort. Cuyahoga, Lorain, Huron, Belmont, Gallia, Highland.
1191. *Heuchera americana* L. Alum-root. General and abundant.
1192. *Mitella diphylla* L. Two-leaf Bishop's-cap. General.
1193. *Chryso-splenium americanum* Schw. Golden Saxifrage. Cuyahoga, Belmont, Stark, Fairfield.

Order, *Thymelaeales*.**Lythraceae.** Loosestrife Family.

1194. *Ammannia coccinea* Rottb. Longleaf Ammannia. Erie County.
 1195. *Rotala ramosior* (L.) Koelme. Rotala. Hamilton, Licking, Ot-
 tawa.
 1196. *Decodon verticillatus* (L.) Ell. Swamp Loosestrife. Rather gen-
 eral.
 1197. *Lythrum alatum* Pursh. Wing-angled Loosestrife. Rather gen-
 eral; no specimens from the southeast.
 1198. *Lythrum salicaria* L. Spiked Loosestrife. Lake, Cuyahoga.
 From Europe.
 1199. *Parsonsia petiolata* (L.) Rusby. Blue Waxweed. Southern half
 of state; also in Cuyahoga and Wayne Counties.

Melastomaceae. Meadow-beauty Family.

1200. *Rhexia virginica* L. Virginia Meadow-beauty. Erie County.

Thymeleaceae. Mezereum Family.

1201. *Direa palustris* L. Leatherwood. Rather general.

Elaeagnaceae. Oleaster Family.

1202. *Lepargyrea canadensis* (L.) Greene. Canadian Buffalo-berry.
 Erie, Cuyahoga, Lake.

Order, *Celastrales*.**Rhamnaceae.** Buckthorn Family.

1203. *Rhamnus cathartica* L. Common Buckthorn. Greene County.
 From Europe.
 1204. *Rhamnus lanceolata* Pursh. Lanceleaf Buckthorn. From Dela-
 ware County southward and southwestward.
 1205. *Rhamnus alnifolia* L'Her. Alderleaf Buckthorn. Lake, Cuya-
 hoga, Stark, Champaign.
 1206. *Rhamnus caroliniana* Walt. Carolina Buckthorn. Adams
 County.
 1207. *Ceanothus americanus* L. Common New Jersey Tea. General
 in eastern part of the state westward to Ottawa, Clark,
 Greene, and Adams Counties.
 1208. *Ceanothus ovatus* Desf. Smaller New Jersey Tea. Erie, Otta-
 wa, Crawford.

Vitaceae. Grape Family.

1209. *Vitis labrusca* L. Northern Fox Grape. Rather general.
 1210. *Vitis aestivalis* Mx. Summer Grape. General.
 1211. *Vitis bicolor* LeC. Winter Grape. General in eastern part of state to Knox and Adams Counties; also in Williams County.
 1212. *Vitis vulpina* L. Riverside Grape. General and abundant.
 1213. *Vitis cordifolia* Mx. Frost Grape. Rather general.
 1214. *Ampelopsis cordata* Mx. Heartleaf Ampelopsis. Scioto County.
 1215. *Parthenocissus quinquefolia* (L.) Planch. Virginia Creeper. General and abundant.

Celastraceae. Stafftree Family.

1216. *Euonymus atropurpureus* Jacq. Wahoo. General and abundant.
 1217. *Euonymus europaeus* L. Spindletree. Lake County. Escaped.
 1218. *Euonymus obovatus* Nutt. Running Strawberry-bush. Rather general.
 1219. *Euonymus americanus* L. American Strawberry-bush. No specimens.
 1220. *Celastrus scandens* L. Waxwork. General.

Ilicaceae. Holly Family.

1221. *Nemopanthus mucronata* (L.) Trel. Mountain Holly. Stark, Summit, Defiance, Williams.
 1222. *Ilex verticillata* (L.) Gr. Winterberry. General.
 1223. *Ilex opaca* Ait. American Holly. Lawrence County.

Staphyleaceae. Bladdernut Family.

1224. *Staphylea trifolia* L. American Bladdernut. General and abundant.

Order, *Sapindales*.**Sapindaceae.** Soap-berry Family.

1225. *Cardiospermum halicacabum* L. Balloon-vine. No specimens. Native of tropical America.

Aesculaceae. Buckeye Family.

1226. *Aesculus hippocastanum* L. No specimens. Native of Asia.

1227. *Aesculus glabra* Willd. Ohio Buckeye. General and abundant.
 1228. *Aesculus octandra* Marsh. Yellow Buckeye. Southern part of the state, north to Monroe and Fairfield Counties.

Aceraceae. Maple Family.

1229. *Acer spicatum* Lam. Mountain Maple. From Lorain, Wayne, and Muskingum Counties eastward; also in Greene County.
 1230. *Acer saccharum* Marsh. Sugar Maple. General and abundant.
 1231. *Acer nigrum* Mx. Black Maple. General and abundant.
 1232. *Acer rubrum* L. Red Maple. General.
 1233. *Acer saccharinum* L. Silver Maple. General and abundant.
 1234. *Acer negundo* L. Boxelder. General and abundant.

Anacardiaceae. Sumac Family.

1235. *Rhus copallina* L. Mountain Sumac. Rather general, but no specimens from the west central part of the state.
 1236. *Rhus hirta* (L.) Sudw. Staghorn Sumac. Rather general.
 1237. *Rhus glabra* L. Smooth Sumac. General and abundant.
 1238. *Schmaltzia crenata* (Mill.) Greene. Fragrant Sumac. Western two-thirds of the state.
 1239. *Toxicodendron vernix* (L.) Ktze. Poison Sumac. Geauga, Cuyahoga, Lorain, Wayne, Wyandot, Licking, Fairfield.
 1240. *Toxicodendron radicans* (L.) Ktze. Poison Ivy. General and abundant.
 1241. *Cotinus cotinus* (L.) Sarg. European Smoketree. Escaped in Jefferson County.

Subclass **AMENTIFERAE.**

Order, *Platanales.*

Hamamelidaceae. Witch-hazel Family.

Subfamily, **HAMAMELIDATAE.**

1242. *Hamamelis virginiana* L. Witch-hazel. General, but no specimens from the west central counties.

Subfamily, **ALTINGIATAE.**

1243. *Liquidambar styraciflua* L. Sweet-gum. Gallia, Lawrence, Scioto, Adams, Brown, Greene.

Platanaceae. Plane-tree Family.

1244. *Platanus occidentalis* L. Sycamore. General and abundant.

Order. *Urticales*.**Ulmaceae.** Elm Family.

1245. *Ulmus americana* L. White Elm. General and abundant.
 1246. *Ulmus thomasi* Sarg. Cork Elm. Cuyahoga, Lorain, Ottawa, Huron, Hancock, Hardin, Logan, Franklin, Lawrence, Greene.
 1247. *Ulmus fulva* Mx. Slippery Elm. General and abundant.
 1248. *Celtis occidentalis* L. Common Hackberry. (Including *C. crasifolia*—young plants and vigorous shoots.) General and abundant, but no specimens from the extreme northeastern counties.

Moraceae. Mulberry Family.

Subfamily. MORATAE.

1249. *Morus rubra* L. Red Mulberry. General.
 1250. *Morus alba* L. White Mulberry. Introduced. Erie, Lorain, Medina, Summit, Carroll, Montgomery, Clermont, Lawrence.
 1251. *Toxylon pomiferum* Raf. Osage-orange. From the Southwest. General except in the northeastern counties.

Subfamily. CANNABINATAE.

1252. *Humulus lupulus* L. Hop. General. Introduced.
 1253. *Humulus japonicus* S. & Z. Japanese Hop. A waif in Lucas County.
 1254. *Cannabis sativa* L. Hemp. Clermont, Greene, Franklin, Belmont, Coshocton, Holmes, Lucas. Introduced.

Urticaceae. Nettle Family.

1255. *Urtica dioica* L. Stinging Nettle. From Europe. Jefferson, Cuyahoga, Lorain.
 1256. *Urtica gracilis* L. Slender Nettle. General.
 1257. *Urtica urens* L. Small Nettle. From Europe. Lake County.
 1258. *Urticastrum divaricatum* (L.) Ktz. Wood Nettle. General.
 1259. *Pilea pumila* (L.) Gr. Clearweed. General.
 1260. *Boehmeria cylindrica* (L.) Sw. False Nettle. General.
 1261. *Parietaria pennsylvanica* Muhl. Pellitory. General.

Order, *Fagales*.**Fagaceae.** Beech Family.

1262. *Fagus grandifolia* Ehrh. American Beech. General and abundant.
1263. *Castanea dentata* (Marsh.) Borkh. Chestnut. Eastern half of state to Lorain, Franklin, and Adams Counties.
1264. *Quercus prinus* L. Rock Chestnut Oak. Eastern and southern parts of the state to Cuyahoga, Fairfield, and Clermont Counties.
1265. *Quercus muhlenbergii* Engelm. Chestnut Oak. General, but no specimens east of Erie nor north of Muskingum and Monroe Counties.
1266. *Quercus prinoides* Willd. Scrub Chestnut Oak. Starke County.
1267. *Quercus bicolor* Willd. Swamp White Oak. General.
1268. *Quercus alba* L. White Oak. General and abundant.
1269. *Quercus stellata* Wang. Post Oak. From Madison and Morgan Counties southward.
1270. *Quercus macrocarpa* Mx. Bur Oak. General in the western half of the state to Erie, Franklin, and Fairfield Counties; also in Ashtabula and Belmont Counties.
1271. *Quercus imbricaria* Mx. Shingle Oak. General.
- 1271a. *Quercus imbricaria* X *velutina*. A hybrid in Hamilton, Licking, Harrison, Erie and Lucas Counties.
1272. *Quercus marilandica* Muench. Black-Jack (Oak). Adams, Lawrence.
1273. *Quercus ilicifolia* Wang. Bear Oak. No specimens.
- 1273.1. *Quercus triloba* Mx. Spanish Oak. Lawrence County.
1274. *Quercus velutina* Lam. Quercitron Oak. General.
1275. *Quercus coccinea* Wang. Scarlet Oak. Hamilton, Auglaize, Fairfield, Franklin, Richland.
1276. *Quercus rubra* L. Red Oak. General and abundant.
1277. *Quercus palustris* DuRoi. Pin Oak. General.

Betulaceae. Birch Family.

1278. *Carpinus caroliniana* Walt. Blue-beech. General and abundant.
1279. *Ostrya virginiana* (Mill.) Willd. Hop-hornbeam. General and abundant.
1280. *Corylus americana* Walt. Common Hazelnut. General.

1281. *Betula lenta* L. Sweet Birch. Fairfield, Hocking, Adams, Scioto.
1282. *Betula lutea* Mx. f. Yellow Birch. Ashtabula, Stark, Summit, Lake, Cuyahoga, Lorain, Wayne, Fairfield, Hocking.
1283. *Betula nigra* L. River Birch. From Fairfield and Perry Counties southward.
1284. *Betula alba* L. European White Birch. Escaped in Lake County.
1285. *Betula pumila* L. Low Birch. Summit, Stark, Wyandot, Champaign.
1286. *Alnus incana* (L.) Willd. Hoary Alder. Cuyahoga, Lake, Geauga.
1287. *Alnus rugosa* (DuRoi), Spreng. Smooth Alder. Eastern half of state, to Lorain, Fairfield and Scioto Counties.

Juglandaceae. Walnut Family.

1288. *Hicoria cordiformis* (Wang.) Britt. Bitternut (Hickory). General and abundant.
1289. *Hicoria microcarpa* (Nutt.) Britt. Small Pignut (Hickory). General.
1290. *Hicoria glabra* (Mill.) Britt. Pignut (Hickory). Rather general, but no specimens from the west central part.
1291. *Hicoria alba* (L.) Britt. Moekernut (Hickory). Rather general, but no specimens from the extreme eastern and extreme western counties.
1292. *Hicoria laevis* (Mx. f.) Sarg. Shellbark (Hickory). Huron, Wyandot, Licking, Franklin, Pickaway, Scioto, Clermont.
1293. *Hicoria ovata* (Mill.) Britt. Shagbark (Hickory). General and abundant.
1294. *Juglans nigra* L. Black Walnut. General and abundant.
1295. *Juglans cinerea* L. Butternut. General, but no specimens from the northeastern counties.

Myricaceae. Bayberry Family.

1296. *Comptonia peregrina* (L.) Coult. Comptonia. Lake, Erie, Portage, Lucas, Fulton, Wood, Knox.

Order, *Salicales*.

Salicaceae. Willow Family.

1297. *Populus alba* L. White Poplar. General. Introduced.

1298. *Populus heterophylla* L. Swamp Poplar. Lake, Huron, Richland, Williams, Auglaize, Shelby, Logan, Knox, Licking.
1299. *Populus balsamifera* L. Balsam Poplar. Huron, Ashtabula, Geauga, Carroll.
- 1299a. *Populus balsamifera candicans* (Ait.) Gr. Balm-of-Gilead. Preble, Clermont, Franklin, Hocking, Coshocton, Harrison, Jefferson, Lorain. Escaped from cultivation.
1300. *Populus deltoides* Marsh. Cottonwood. General.
1301. *Populus italica* Moench. Lombardy Poplar. Rather general; probably mostly planted. From Europe.
1302. *Populus grandidentata* Mx. Largetooth Aspen. General.
1303. *Populus tremuloides* Mx. American Aspen. General in the northern part of the state, south to Franklin and Hocking Counties, also in Adams County.
1304. *Salix amygdaloides* And. Peachleaf Willow. Northwestern half of state, from Ashtabula to Franklin Counties westward.
1305. *Salix nigra* Marsh. Black Willow. General and abundant.
- 1305a. *Salix nigra* X *amygdaloides*. Erie, Ashtabula.
1306. *Salix lucida* Muhl. Shining Willow. Northern part of state as far south as Logan and Knox Counties.
1307. *Salix fragilis* L. Crack Willow. General. From Europe.
- 1307a. *Salix fragilis* X *alba*. Franklin and Ottawa Counties.
1308. *Salix pentandra* L. Bayleaf Willow. Escaped in Franklin County.
1309. *Salix alba* L. White Willow. General. Native of Europe.
- 1309a. *Salix alba* X *lucida*. Ashtabula, Logan.
- 1309b. *Salix alba* X *babylonica*. Ashtabula County.
1310. *Salix babylonica* L. Weeping Willow. Native of Asia. Ashtabula, Wayne.
- 1310a. *Salix babylonica* X *fragilis*. Erie County.
1311. *Salix interior* Rowlee. Sandbar Willow. General and abundant.
- 1311a. *Salix interior wheeleri* Rowlee. Preble, Erie, Lake.
1312. *Salix glaucophylla* Bebb. Broadleaf Willow. Erie, Wyandot.
1313. *Salix cordata* Muhl. Heartleaf Willow. General.
- 1313a. *Salix cordata* X *sericea*. Ashtabula County.
1314. *Salix adenophylla* Hook. Furry Willow. Erie County.
1315. *Salix candida* Fl. Hoary Willow. Wyandot, Erie.
1316. *Salix sericea* Marsh. Silky Willow. General.

1317. *Salix petiolaris* Sm. Slender Willow. Erie, Wood, Lucas, Fulton.
1318. *Salix bebbiana* Sarg. Bebb's Willow. Northern counties from Ashtabula to Fulton County; also in Wyandot County.
1319. *Salix discolor* Muhl. Pussy Willow. General and abundant.
1320. *Salix humilis* Marsh. Prairie Willow. Lake, Wood, Lucas, Fulton, Fairfield, Hocking.
- 1320a. *Salix humilis tristis* (Ait.) Griggs. Athens, Madison.
1321. *Salix purpurea* L. Purple Willow. Native of Europe. Rather general.
1322. *Salix pedicellaris* Pursh. Bog Willow. Williams, Portage, Wayne, Licking, Perry.

Subclass, MYRTIFLORAE.

Order, *Cactales*.

Cactaceae. Cactus Family.

1323. *Opuntia humifusa* Raf. Western Prickly-pair. Erie, Scioto.

Order, *Myrtales*.

Hydrangeaceae. Hydrangea Family.

Subfamily, PHILADELPHATAE.

1324. *Philadelphus coronarius* L. Garden Mock-orange. Erie, Auglaize, Belmont, Jefferson, Monroe. From Europe.

Subfamily, HYDRANGEATAE.

1325. *Hydrangea arborescens* L. Wild Hydrangea. Southern half of state to Champaign and Mahoning Counties.

Grossulariaceae. Gooseberry Family.

1326. *Ribes lacustre* (Pers.) Poir. Swamp Currant. (Erie County—Moseley Herbarium.)
1327. *Ribes vulgare* Lam. Red Currant. Fulton, Lorain, Cuyahoga, Ashtabula. Native of Europe.
1328. *Ribes americanum* Mill. Wild Black Currant. General.
1329. *Ribes odoratum* Wendl. Buffalo Currant. Belmont, Hocking, Franklin, Auglaize, Richland, Lake. From the west.
1330. *Grossularia cynosbati* (L.) Mill. Wild Gooseberry. General.
1331. *Grossularia oxycanthoides* (L.) Mill. Northern Gooseberry. Stark, Wayne.

1332. *Grossularia hirtella* (Mx.) Spach. Low Gooseberry. Geauga, Summit, Champaign.
1333. *Grossularia reclinata* (L.) Mill. Garden Gooseberry. Lawrence, Franklin. From Europe.
- Onagraceae.** Evening-primrose Family.
1334. *Ludwigia polycarpa* S. & P. Many-fruited Ludwigia. Cuyahoga, Lucas, Auglaize, Hocking.
1335. *Ludwigia alternifolia* L. Seed-box. Rather general.
1336. *Isardia palustris* L. Marsh Purslane. General.
1337. *Chamaenerion angustifolium* (L.) Scop. Fire-weed. Northern fourth of the state.
1338. *Epilobium lineare* Muhl. Linear-leaf. Willow-herb. Portage, Erie, Ottawa, Clark.
1339. *Epilobium strictum* Muhl. Downy Willow-herb. Licking County.
1340. *Epilobium coloratum* Muhl. Purple Willow-herb. General.
1341. *Epilobium adenocaulon* Haussk. Northern Willow-herb. Northern Ohio, south to Franklin and Madison Counties.
1342. *Oenothera biennis* L. Common Evening-primrose. General.
1343. *Oenothera oakesiana* Robb. Oakes' Evening-primrose. (Erie County—Moseley Herbarium.)
1344. *Raimannia laciniata* (Hill.) Rose. Cutleaf Evening-primrose. Cuyahoga County.
1345. *Kneiffia pratensis* Small. Meadow Sundrops. No specimens.
1346. *Kneiffia pumila* (L.) Spach. Small Sundrops. Eastern part of Ohio as far west as Cuyahoga and Hocking Counties.
1347. *Kneiffia fruticosa* (L.) Raim. Common Sundrops. Rather general, but no specimens from the western part of the state.
1348. *Hartmannia speciosa* (Nutt.) Small. White Evening-primrose. A waif in Franklin County.
1349. *Lavauxia triloba* (Nutt.) Spach. Three-lobed Evening-primrose. From two localities in Montgomery County.
1350. *Gaura biennis* L. Biennial Gaura. Rather general.
1351. *Circaea lutetiana* L. Common Enchanter's-nightshade. General and abundant.
1352. *Circaea intermedia* Ehrh. Intermediate Enchanter's-nightshade. No specimens.

1353. *Circaea alpina* L. Small Enchanter's-nightshade. Ashtabula, Cuyahoga, Lorain, Summit, Crawford, Clark, Hocking.

Haloragidaceae. Water-milfoil Family.

1354. *Myriophyllum spicatum* L. Spiked Water-milfoil. Rather general.
1355. *Myriophyllum verticillatum* L. Whorled Water-milfoil. Erie County.
1356. *Myriophyllum heterophyllum* Mx. Variant-leaf Water-milfoil. No specimens.
1357. *Proserpinaca palustris* L. Mermaid-weed. Ashtabula, Cuyahoga, Portage, Wayne, Erie, Wyandot.

Order, *Loasales*.

Cucurbitaceae. Gourd Family.

1358. *Cucurbita pepo* L. Pumpkin. Erie, Wood, Spontaneous.
1359. *Cucurbita maxima* Duchesne. Squash. Brown County. Spontaneous.
1360. *Citrullus citrullus* (L.) Karst. Watermelon. Athens, Ottawa, Spontaneous.
1361. *Cucumis sativus* L. Cucumber. No specimens. Sometimes spontaneous.
1362. *Cucumis melo* L. Muskmelon. Madison, Franklin. Spontaneous.
1363. *Micrampelis lobata* (Mx.) Greene. Wild Balsam-apple. Rather general.
1364. *Sicyos angulatus* L. Star Cucumber. Rather general.

Order, *Aristolochiales*.

Aristolochiaceae. Birthwort Family.

1365. *Asarum canadense* L. Canadian Wild-ginger. General.
1366. *Asarum acuminatum* (Ashe.) Bicken. Long-tipped Wild-ginger. Rather general.
1367. *Asarum reflexum* Bicken. Short-lobed Wild-ginger. Rather general.
1368. *Aristolochia serpentaria* L. Virginia Snakeroot. Rather general.

Order, *Santalales*.**Santalaceae.** Sandalwood Family.

1369. *Comandra umbellata* (L.) Nutt. Bastard Toad-flax. Rather general.

Loranthaceae. Mistletoe Family.

1370. *Phoradendron flavescens* (Pursh) Nutt. American Mistletoe. Southern counties, as far north as Ross and Athens.

Subclass, HETEROMERAE.

Order, *Primulales*.**Primulaceae.** Primrose Family.

1371. *Lysimachia vulgaris* L. Common Yellow Loosestrife. Lake County. From Europe.
1372. *Lysimachia quadrifolia* L. Whorled Yellow Loosestrife. General in the eastern half of the state; also in Fulton and Adams Counties.
1373. *Lysimachia terrestris* (L.) B. S. P. Bulb-bearing Yellow Loosestrife. Northeast fourth of state; also in Lucas and Hardin Counties.
1374. *Lysimachia nummularia* L. Moneywort. General. Naturalized from Europe.
1375. *Steironema ciliatum* (L.) Raf. Fringed Yellow Loosestrife. General.
1376. *Steironema lanceolatum* (Walt.) Gr. Lanceleaf Yellow Loosestrife. Southwestern half of state.
1377. *Steironema quadriflorum* (Sims.) Hitch. Linear-leaf Yellow Loosestrife. Rather general.
1378. *Naumburgia thyrsiflora* (L.) Duby. Tufted Yellow Loosestrife. Rather general.
1379. *Trientalis americana* (Pers.) Pursh. Starflower. Cuyahoga, Portage, Summit, Champaign.
1380. *Anagallis arvensis* L. Scarlet Pimpernel. Lake, Fairfield, Logan, Montgomery, Greene, Scioto, Gallia. From Europe.
1381. *Hottonia inflata* Ell. Featherfoil. Ashtabula County.
1382. *Samolus floribundus* H. B. K. Water Pimpernel. Rather general.

1383. *Dodecatheon meadia* L. Shooting-star. Erie, Clark, Darke, Hoeking, Hamilton, Clermont.

Plumbaginaceae. Leadwort Family.

1384. *Ceratostigma plumbaginoides* Bunge. Ceratostigma. A waif in Lake County.

Order, *Ericales*.

Pyrolaceae. Wintergreen Family.

1385. *Pyrola americana* Sw. Roundleaf Wintergreen. Defiance, Lucas, Lake, Wayne, Stark, Trumbull, Fairfield, Hoeking.
1386. *Pyrola elliptica* Nutt. Shinleaf Wintergreen. Rather general, except in the southern part of Ohio.
1387. *Pyrola secunda* L. One-sided Wintergreen. Cuyahoga, Geauga, Summit, Portage.
1388. *Chimaphila mibellata* (L.) Nutt. Pipsissewa, Lucas, Cuyahoga, Portage.
1389. *Chimaphila maculata* (L.) Pursh. Spotted Pipsissewa. Rather general in eastern half of state.

Monotropaceae. Indian-pipe Family.

1390. *Monotropa uniflora* L. Indian-pipe. General.
1391. *Hypopitys americana* (DC.) Small. Smooth Pinesap. Fairfield, Hoeking.
1392. *Hypopitys lanuginosa* (Mx) Nutt. Hairy Pinesap. Lake, Cuyahoga, Columbiana, Wayne.

Ericaceae. Heath Family.

1393. *Ledum groenlandicum* Oedr. Labrador Tea. Portage County.
1394. *Azalea nudiflora* L. Pink Azalea. Portage, Geauga, Lawrence.
1395. *Azalea lutea* L. Flame Azalea. Fairfield County.
1396. *Azalea viscosa* L. Swamp Azalea. Ashtabula County.
1397. *Rhododendron maximum* L. Great Rhododendron. Fairfield, Hoeking.
1398. *Kalmia latifolia* L. Mountain Kalmia. Columbiana, Jefferson, Licking, Fairfield, Hoeking, Jackson, Lawrence, Scioto.
1399. *Chamaedaphne calyculata* (L.) Moench. Leather-leaf. Geauga, Wayne, Stark, Williams, Defiance.

1400. *Andromeda polifolia* L. Wild Rosemary. Geauga, Wayne, Stark.
1401. *Oxydendrum arboreum* (L.) DC. Sorrel-tree. Adams, Fairfield, Hocking, Vinton, Jackson, Morgan, Meigs, Lawrence.
1402. *Epigaea repens* L. Trailing Arbutus. Cuyahoga, Geauga, Medina, Columbiana, Knox, Licking, Fairfield, Hocking, Jackson, Gallia, Lawrence.
1403. *Gaultheria procumbens* L. Creeping Wintergreen. Lucas, Cuyahoga, Wayne, Stark, Columbiana, Fairfield, Hocking, Jackson, Lawrence.
1404. *Uva-ursi uva-ursi* (L.) Britt. Bearberry. Erie County.

Vacciniaceae. Huckleberry Family.

1405. *Polycodium stamineum* (L.) Greene. Deerberry. Rather general in the eastern half of the state.
1406. *Vaccinium corymbosum* L. Tall Blueberry. Eastern half of state; also in Williams County.
1407. *Vaccinium canadense* Kalm. Canada Blueberry. Lucas, Stark.
1408. *Vaccinium angustifolium* Ait. Dwarf Blueberry. Rather general in the eastern two-thirds of the state.
1409. *Vaccinium vacillans* Kalm. Low Blueberry. Eastern half of state; also in Fulton, Lucas and Ottawa Counties.
1410. *Vaccinium atrococcum* (Gr.) Heller. Dark Blueberry. Williams County.
1411. *Chiogenes hispidula* (L.) T. & G. Creeping Snowberry. Summit, Stark.
1412. *Oxycoccus macrocarpus* (Ait.) Pursh. Large Cranberry. Williams, Defiance, Geauga, Ashland, Wayne, Richland, Licking.
1413. *Gaylussacia frondosa* (L.) T. & G. Blue Huckleberry. No specimen.
1414. *Gaylussacia baccata* (Wang.) Koch. Black Huckleberry. General.

Order, *Ebenales*.

Ebenaceae. Ebony Family.

1415. *Diospyros virginiana* L. Persimmon. Southern half of the state; also in Lucas County.

Subclass, TUBIFLORAE.

Order, *Polmoniales*.**Polemoniaceae.** Phlox Family.

1416. *Phlox paniculata* L. Garden Phlox. General.
 1417. *Phlox maculata* L. Spotted Phlox. Rather general.
 1418. *Phlox ovata* L. Mountain Phlox. Fulton County.
 1419. *Phlox glaberrima* L. Smooth Phlox. No specimens.
 1420. *Phlox pilosa* L. Downy Phlox. Northern part of the state, as far south as Franklin County.
 1421. *Phlox divaricata* L. Wild Blue Phlox. General and abundant.
 1422. *Phlox stolonifera* Sims. Creeping Phlox. Hocking County.
 1423. *Phlox subulata* L. Ground Phlox. General.
 1424. *Gilia rubra* (L.) Heller. Standing-cypress. Escaped in Erie and Lake Counties.
 1425. *Polemonium reptans* L. Greek Valerian. General and abundant.

Convolvulaceae. Morning-glory Family.

1426. *Ipomoea purpurea* (L.) Lam. Common Morning-glory. General. From tropical America.
 1427. *Ipomoea hederacea* Jacq. Ivyleaf Morning-glory. Southwestern Ohio, from Gallia to Auglaize County; also in Lake County. From tropical America.
 1428. *Ipomoea lacunosa* L. Small-flowered White Morning-glory. Hamilton, Clermont, Gallia.
 1429. *Ipomoea pandurata* (L.) Meyer. Wild Potato-vine. General.
 1430. *Quamoclit coccinea* (L.) Moench. Small Red Morning-glory. No specimens. From tropical America.
 1431. *Convolvulus arvensis* L. Small Bindweed. General. Naturalized from Europe.
 1432. *Convolvulus spithameus* L. Upright Bindweed. Gallia, Clermont, Auglaize, Lucas, Portage.
 1433. *Convolvulus sepium* L. Hedge Bindweed. General.
 1434. *Convolvulus japonicus* Thunb. Japanese Bindweed. Fayette, Auglaize, Huron, Erie, Medina. Escaped.

Cuscutaceae. Dodder Family.

1435. *Cuscuta epilinum* Weihe. Flax Dodder. Wayne County. From Europe.

1436. *Cuscuta epithymum* Murr. Clover Dodder. Mercer County.
From Europe.
1437. *Cuscuta arvensis* Beyrich. Field Dodder. Vinton, Tuscarawas,
Wayne, Erie.
1438. *Cuscuta polygonorum* Engel. Smartweed Dodder. Rather
general.
1439. *Cuscuta indecora* Choisy. Pretty Dodder. Montgomery County.
1440. *Cuscuta coryli* Engel. Hazel Dodder. Rather general.
1441. *Cuscuta cephalanthi* Engel. Buttonbush Dodder. Ottawa.
Franklin.
1442. *Cuscuta Gronovii* Willd. Gronovius' Dodder. General.
1443. *Cuscuta compacta* Juss. Compact Dodder. No specimens.
1444. *Cuscuta paradoxa* Raf. Glomerate Dodder. No specimens.
From the west.

Hydrophyllaceae. Water-leaf Family.

1445. *Hydrophyllum virginianum* L. Virginia Water-leaf. General.
1446. *Hydrophyllum macrophyllum* Nutt. Large Water-leaf. West-
ern part of Ohio, as far east as Gallia, Fairfield, Licking,
and Wyandot Counties.
1447. *Hydrophyllum appendiculatum* Mx. Appendaged Water-leaf.
General.
1448. *Hydrophyllum canadense* L. Broadleaf Water-leaf. Cuyahoga,
Wayne, Morrow, Hardin, Greene, Belmont.
1449. *Phacelia dubia* (L.) Small. Small-flowered Phacelia. Fairfield
County.
1450. *Phacelia bipinnatifida* Mx. Loose-flowered Phacelia. Hamilton
County.
1451. *Phacelia purshii* Buckl. Pursh's Phacelia. General.

Order, *Gentianales*.

Loganiaceae. Logania Family.

1452. *Spigelia marilandica* L. Indian-pink. Lake County.

Oleaceae. Olive Family.

1453. *Syringa vulgaris* L. Common Lilac. Lake, Jefferson. Escaped.
1454. *Ligustrum vulgare* L. Privet. Rather general. From Europe.
1455. *Chionanthus virginica* L. Fringetree. Meigs, Gallia, Pike.

1456. *Fraxinus nigra* Marsh. Black Ash. General in the northern part of the state, south to Preble, Green, Franklin and Harrison Counties.
1457. *Fraxinus quadrangulata* Mx. Blue Ash. Erie, Ottawa, Hancock, Anglaize, Franklin, Licking, Montgomery, Highland, Ross, Brown, Adams.
1458. *Fraxinus pennsylvanica* Marsh. Red Ash. General.
1459. *Fraxinus lanceolata* Borek. Green Ash. General.
1460. *Fraxinus biltmoreana* Beadle. Biltmore Ash. Erie, Hardin, Franklin, Montgomery, Morgan, Hamilton, Brown, Lawrence, Meigs.
1461. *Fraxinus americana* L. White Ash. General and abundant.

Gentianaceae. Gentian Family.

1462. *Centaurium centaurium* (L.) Wight. European Centaury. Lake County. From Europe.
1463. *Sabbatia angularis* (L.) Pursh. Square-stemmed Sabbatia. General.
1464. *Gentiana quinquefolia* L. Stiff Gentian. Montgomery, Ross., Franklin, Wayne, Summit, Clark, Fulton, Cuyahoga.
1465. *Gentiana erinita* Froel. Fringed Gentian. Cuyahoga, Erie, Fulton, Anglaize, Champaign, Clark, Madison, Franklin.
1466. *Gentiana puberula* Mx. Downy Gentian. (*Dasystephana*). Erie County.
1467. *Gentiana saponaria* L. Soapwort Gentian. (*Dasystephana*). Cuyahoga, Lucas.
1468. *Gentiana andrewsii* Griseb. Closed Gentian. (*Dasystephana*). General, but no specimens southeast of Hamilton, Fairfield, and Columbiana Counties.
1469. *Gentiana flavida* Gr. Yellowish Gentian. (*Dasystephana*). Lucas County.
1470. *Gentiana villosa* L. Striped Gentian. (*Dasystephana*). Gallia County.
1471. *Fraseria carolinensis* Walt. American Columbo. From Madison County southward and westward; also in Summit, Geauga and Portage Counties.
1472. *Obolaria virginica* L. Pennywort. Lake, Cuyahoga, Fairfield, Gallia, Lawrence, Clermont, Hamilton.

1473. *Bartonia virginica* (L.) B. S. P. Yellow Bartonia. Licking, Lake.

Menyanthaceae. Buckbean Family.

1474. *Menyanthes trifoliata* L. Buckbean. Ashtabula, Wayne, Licking.

Apocynaceae. Dogbane Family.

1475. *Vinca minor* L. Periwinkle. Rather general. Native of Europe.
 1476. *Apocynum androsaemifolium* L. Spreading Dogbane. General.
 1477. *Apocynum cannabinum* L. Indian Hemp. General and abundant.
 1478. *Apocynum sibiricum* Jacq. Clasping-leaf Dogbane. Erie, Ashtabula.
 1479. *Apocynum pubescens* R. Br. Velvet Dogbane. Anglaize, Franklin, Harrison, Adams.

Asclepiadaceae. Milkweed Family.

1480. *Acerates viridiflora* (Raf.) Eat. Green Milkweed. Rather general.
 1481. *Acerates floridana* (Lam.) Hitch. Florida Milkweed. Erie, Jackson, Gallia.
 1482. *Aselepias tuberosa* L. Pleurisy-root. General.
 1483. *Aselepias decumbens* L. Decumbent Pleurisy-root. No specimens.
 1484. *Aselepias purpurascens* L. Purple Milkweed. Madison, Anglaize, Lucas, Summit, Portage, Stark, Carroll.
 1485. *Aselepias incarnata* L. Swamp Milkweed. General and abundant.
 1486. *Aselepias pulchra* Ehrh. Hairy Milkweed. Lorain County.
 1487. *Aselepias sullivanii* Engelm. Sullivan's Milkweed. Erie, Fairfield.
 1488. *Aselepias amplexicaulis* Sm. Bluntleaf Milkweed. Erie, Fairfield.
 1489. *Aselepias exaltata* (L.) Muhl. Tall Milkweed. General.
 1490. *Aselepias variegata* L. White Milkweed. Summit, Hoeking.
 1491. *Aselepias quadrifolia* L. Fourleaf Milkweed. General.
 1492. *Aselepias syriaca* L. Common Milkweed. General and abundant.
 1493. *Aselepias verticillata* L. Whorled Milkweed. Lucas, Ottawa, Erie, Cuyahoga, Clark, Greene, Fairfield, Athens.

1494. *Gonolobus laevis* Mx. Sandvine. Southern Ohio, as far north as Montgomery, Ross, and Washington Counties.
1495. *Cynanchum nigrum* (L.) Pers. Black Swallow-wort. Cuyahoga, Lake. From Europe.
1496. *Vincetoxicum obliquum* (Jacq.) Britt. Large-flowered Vincetoxicum. Lawrence, Hamilton, Greene, Franklin.

Order, *Scrophulariales*.

Solanaceae. Potato Family.

1497. *Petunia violacea* Lindl. Common Petunia. Monroe, Franklin. From South America.
1498. *Nicotiana tabacum* L. Common Tobacco. Adams, Huron. Escaped from cultivation.
1499. *Datura metel* L. Entire-leaf Jimson-weed. Lake County. From tropical America.
1500. *Datura stramonium* L. Common Jimson-weed. General. Naturalized. From the tropics.
1501. *Lycium halmifolium* Mill. Matrimony-vine. Rather general. From Europe.
1502. *Physalodes physalodes* (L.) Britt. Apple-of-Peru. Gallia, Hamilton, Clinton, Montgomery, Clark, Champaign, Franklin, Licking. From Peru.
1503. *Physalis lanceolata* Mx. Prairie Ground-cherry. General.
1504. *Physalis ixocarpa* Brot. Mexican Ground-cherry. Franklin County. Spontaneous after cultivation.
1505. *Physalis virginiana* Mill. Virginia Ground-cherry. Cuyahoga County.
1506. *Physalis alkekengi* L. Chinese-lantern (Ground-cherry). Persistent after cultivation. Franklin, Lake.
1507. *Physalis heterophylla* Nees. Clammy Ground-cherry. General and abundant.
1508. *Physalis pubescens* L. Low Hairy Ground-cherry. Morgan, Shelby.
1509. *Physalis pruinosa* L. Tall Hairy Ground-cherry. Franklin County. Escaped from cultivation.
1510. *Solanum elaeagnifolium* Cav. Silver-leaf Nightshade. A waif in Lucas County.
1511. *Solanum carolinense* L. Horse-nettle. General.

1512. *Solanum tuberosum* L. Potato. Monroe, Hocking, Franklin, Tuscarawas, Erie, Ottawa. Persistent after cultivation.
1513. *Solanum dulcamara* L. Bittersweet. General as far south as Clark, Licking, and Jefferson Counties; also in Meigs County. Naturalized from Europe.
1514. *Solanum nigrum* L. Black Nightshade. General and abundant.
1515. *Solanum rostratum* Dum. Buffalo-bur. Franklin, Marion, Ottawa, Cuyahoga, Summit, Lake. From the West.
1516. *Lycopersicon lycopersicon* (L.) Karst. Tomato. Rather general as an escape.

Scrophulariaceae. Figwort Family.

1517. *Verbascum blattaria* L. Moth Mullen. General and abundant. Naturalized from Europe.
1518. *Verbascum thapsus* L. Common Mullen. General and abundant. Naturalized from Europe.
1519. *Scrophularia leporella* Biekn. Hare Figwort. Cuyahoga County.
1521. *Chelone glabra* L. Smooth Turtle-head. General.
1522. *Pentstemon hirsutus* (L.) Willd. Hairy Beard-tongue. General.
1523. *Pentstemon pentstemon* (L.) Britt. Smooth Beard-tongue. Rather general.
1524. *Pentstemon digitalis* (Sweet) Nutt. Foxglove Beard-tongue. Rather general.
1525. *Pentstemon cobaea* Nutt. Cobaea Beard-tongue. Lake County.
1526. *Collinsia verna* Nutt. Blue-eyed-Mary. General.
1527. *Mimulus ringens* L. Square-stemmed Monkey-flower. General.
1528. *Mimulus alatus* Soland. Sharp-winged Monkey-flower. Rather general.
1529. *Conoclea multifida* (Mx.) Benth. Conoclea. Hamilton, Greene, Madison, Ottawa.
1530. *Gratiola virginiana* L. Clammy Hedge-hyssop. General.
1531. *Gratiola sphaerocarpa* Ell. Round-fruited Hedge-hyssop. Erie County.
1532. *Hyssanthus dubia* (L.) Barnh. Long-stalked False Pimpernel. Rather general.
1533. *Hyssanthus attenuata* (Muhl.) Small. Short-stalked False Pimpernel. Cuyahoga, Lorain, Huron, Stark, Scioto.
1534. *Synthyris bullii* (Eat.) Heller. Bull's Synthyris. Montgomery County.

1535. *Veronica anagallis-aquatica* L. Water Speedwell. Butler, Champaign, Auglaize, Lucas, Erie.
1536. *Veronica americana* Schwein. American Speedwell. Rather general.
1537. *Veronica scutellata* L. Skulleap Speedwell. Franklin, Licking, Crawford, Perry, Lucas, Ottawa, Erie, Cuyahoga.
1538. *Veronica officinalis* L. Common Speedwell. General and abundant.
1539. *Veronica chamaedris* L. Bird's-eye Speedwell. Lake County. From Europe.
1540. *Veronica teucrium* L. Germander Speedwell. Medina County. From Europe.
1541. *Veronica serpyllifolia* L. Thyme-leaf Speedwell. General.
1542. *Veronica peregrina* L. Purslane Speedwell. General.
1543. *Veronica arvensis* L. Field Speedwell. General. From Europe.
1544. *Veronica agrestis* L. Garden Speedwell. Montgomery, Franklin. From Europe.
1545. *Veronica tournefortii* Gmel. Tournefort's Speedwell. Madison, Franklin, Jefferson, Lorain, Cuyahoga, Lake. From Europe.
1546. *Veronica hederacifolia* L. Ivyleaf Speedwell. (Erie County—Moseley Herbarium.) From Europe.
1547. *Leptandra virginica* (L.) Nutt. Culver's-root. General.
1548. *Digitalis purpurea* L. Purple Foxglove. Cuyahoga, Lake. From Europe.
1549. *Digitalis lutea* L. Yellow Foxglove. A waif in Cuyahoga County.
1550. *Buehnera americana* L. Blue-hearts. Fulton County.
1551. *Azelia macrophylla* (Nutt.) Ktze. Mullen Foxglove. General in western Ohio, as far east as Huron, Noble, and Vinton Counties.
1552. *Dasyctoma pedicularia* (L.) Benth. Fernleaf False Foxglove. Fulton County.
1553. *Dasyctoma flava* (L.) Wood. Downy False Foxglove. Eastern Ohio, as far west as Cuyahoga, Fairfield, and Adams Counties.
1554. *Dasyctoma laevigata* Raf. Entire-leaf False Foxglove. Jackson, Vinton, Hocking, Fairfield.
1555. *Dasyctoma virginica* (L.) Britt. Smooth False Foxglove. Fulton, Wood, Fairfield, Adams.

1556. *Agalinis purpurea* (L.) Britt. Large Purple Gerardia. Montgomery, Fairfield, Franklin, Fulton, Erie, Wayne.
1557. *Agalinis paupercula* (Gr.) Britt. Small Purple Gerardia. Stark, Ottawa, Logan, Champaign, Gallia.
1558. *Agalinis tenuifolia* (Vahl.) Raf. Slender Gerardia. General.
1559. *Agalinis skimmeriana* (Wood) Britt. Skinner's Gerardia. Greene County.
1560. *Otophylla auriculata* (Mx.) Small. Auricled Gerardia. Ottawa County.
1561. *Castilleja coccinea* (L.) Spreng. Scarlet Painted-cup. Franklin, Knox.
1562. *Pedicularis lanceolata* Mx. Lanceleaf Lousewort. Rather general, but no specimens from south of Montgomery and Hocking Counties.
1563. *Pedicularis canadensis* L. Wood Lousewort. General.
1564. *Melampyrum lineare* Lam. Narrow-leaf Cow-wheat. Lorain, Cuyahoga, Lake, Ashtabula, Geauga, Portage, Hocking.
1565. *Antirrhinum majus* L. Great Snapdragon. Madison County. From Europe.
1566. *Linaria linaria* (L.) Karst. Yellow Toadflax. General, but no specimens from the northwestern counties. Naturalized from Europe.
1567. *Linaria canadensis* (L.) Dum. Blue Toadflax. No specimens.
1568. *Chaenorhinum minus* (L.) Lange. Lesser Toadflax. Portage County. From Europe.
1569. *Kickxia spuria* (L.) Dum. Roundleaf Toadflax. Lake County. From Europe.
1570. *Kickxia elatine* (L.) Dum. Sharp-pointed Toadflax. Lake County. From Europe.
1571. *Cymbalaria cymbalaria* (L.) Wettst. Kenilworth Ivy. Montgomery, Crawford. From Europe.

Orobanchaceae. Broom-rape Family.

1572. *Thalesia uniflora* (L.) Britt. Naked Broom-rape. Rather general, but no specimens from the northwestern counties.
1573. *Orobanche ludoviciana* Nutt. Louisiana Broom-rape. Hamilton County.
1574. *Conopholis americana* (L. f.) Wallr. Squaw-root. General.
1575. *Leptamnium virginianum* (L.) Raf. Beech-drops. General.

Bignoniaceae. Bignonia Family.

1576. *Bignonia radicans* L. Trumpet-creeper. General.
 1577. *Anisostichus capreolata* (L.) Bur. Cross-vine. Lawrence, Adams.
 1578. *Catalpa catalpa* (L.) Karst. Common Catalpa. Montgomery,
 Champaign, Franklin. From the South.
 1579. *Catalpa speciosa* Ward. Hardy Catalpa. Ashtabula, Franklin,
 Hoeking, Madison, Preble. From the Southwest.

Martyniaceae. Unicorn-plant Family.

1580. *Martynia louisiana* Mill. Unicorn-plant. Lorain, Richland,
 Franklin, Ross. Escaped from cultivation.

Lentibulariaceae. Bladderwort Family.

1581. *Utricularia macrorhiza* Le Conte. Greater Bladderwort. North-
 ern part of state; specimens from as far south as Franklin
 and Licking Counties.
 1582. *Utricularia gibba* L. Humped Bladderwort. Stark, Franklin,
 Fairfield, Erie, Defiance.
 1583. *Utricularia intermedia* Hayne. Flatleaf Bladderwort. Lake,
 Wayne.
 1584. *Utricularia minor* L. Lesser Bladderwort. Licking County.
 1585. *Stomosis cornuta* (Mx.) Raf. Horned Bladderwort. Summit
 County.

Acanthaceae. Acanthus Family.

1586. *Ruellia strepens* L. Smooth Ruellia. Western half of the state;
 also in Monroe County.
 1587. *Ruellia ciliosa* Pursh. Hairy Ruellia. From Union County south-
 ward and westward; also in Cuyahoga County.
 1588. *Dianthera americana* L. Water-willow. General.

Order, *Lamiales*.**Boraginaceae.** Borage Family.

1589. *Heliotropium indicum* L. Indian Heliotrope. No specimens.
 From India.
 1590. *Cynoglossum officinale* L. Hound's-tongue. General and abun-
 dant. Naturalized from Europe.
 1591. *Cynoglossum virginianum* L. Wild Comfrey. Southeastern
 Ohio to Cuyahoga, Wyandot, and Warren Counties.

1592. *Lappula lappula* (L.) Karst. European Stickseed. Rather general. From Europe.
1593. *Lappula virginiana* (L.) Greene. Virginia Stickseed. General.
1594. *Mertensia virginica* (L.) DC. Virginia Cowslip. Rather general.
1595. *Asperugo procumbens* L. German Madwort. Lake County. From Europe.
1596. *Myosotis laxa* Lehm. Smaller Forget-me-not. Tuscarawas, Stark, Summit, Lake, Lucas.
1597. *Myosotis arvensis* (L.) Hill. Field Forget-me-not. Gallia, Franklin, Lake.
1598. *Myosotis virginica* (L.) B. S. P. Virginia Forget-me-not. Fairfield, Franklin, Lorain, Erie, Lucas.
1599. *Lithospermum latifolium* Mx. American Gromwell. Lawrence, Warren, Lucas, Auglaize.
1600. *Lithospermum officinale* L. Common Gromwell. No specimens. From Europe.
1601. *Lithospermum arvense* L. Corn Gromwell. General and abundant. Naturalized from Europe.
1602. *Lithospermum carolinense* (Walt.) MacM. Hairy Puccoon. Erie, Lucas.
1603. *Lithospermum canescens* (Mx.) Lehm. Hoary Puccoon. Rather general; no specimens from the eastern counties.
1604. *Onosmodium hispidissimum* Mack. Shaggy False Gromwell. Lorain, Ottawa, Lucas, Greene, Clark, Montgomery, Adams.
1605. *Symphytum officinale* L. Common Comfrey. Northern part of Ohio; as far south as Belmont and Champaign Counties. From Europe.
1606. *Lycopsis arvensis* L. Small Bugloss. Stark County. From Europe.
1607. *Echium vulgare* L. Bluweed. Montgomery, Clinton, Richland, Cuyahoga, Columbiana, Noble, Belmont. From Europe.

Verbenaceae. Vervain Family.

1608. *Verbena urticifolia* L. White Vervain. General and abundant.
1609. *Verbena hastata* L. Blue Vervain. General and abundant.
1610. *Verbena angustifolia* Mx. Narrowleaf Vervain. Lake, Cuyahoga, Erie, Ottawa, Auglaize, Madison, Montgomery, Clermont, Adams, Meigs.

1611. *Verbena stricta* Vent. Hoary Vervain. Hamilton, Clermont, Highland, Warren, Preble, Montgomery, Clark, Franklin, Licking, Cuyahoga, Lake.
1612. *Verbena bracteosa* Mx. Bracted Vervain. Pike, Hamilton, Montgomery, Auglaize, Wyandot, Cuyahoga, Ashtabula.
1613. *Verbena canadensis* (L.) Britt. Large-flowered Verbena. Ross, Franklin, Auglaize.
1614. *Lippia lanceolata* Mx. Frog-fruit. General; no specimens from the eastern counties.

Lamiaceae. Mint Family.

1615. *Isanthus brachiatus* (L.) B. S. P. False Pennyroyal. Erie, Ottawa, Clark, Warren, Franklin, Muskingum, Hocking, Morgan, Gallia.
1616. *Trichostema dichotomum* L. Blue-curls. Hamilton, Fairfield, Jackson, Monroe, Highland.
1617. *Ajuga reptans* L. Bungle-weed. No specimens. From Europe.
1618. *Teucrium canadense* L. American Germander. General and abundant.
1619. *Teucrium occidentale* Gr. Hairy Germander. Lake, Wayne, Erie, Ottawa, Auglaize, Clark, Greene, Perry, Monroe.
1620. *Teucrium scorodonia* L. Wood Germander. Lake County. From Europe.
1621. *Teucrium botrys* L. Cutleaf Germander. No specimens. From Europe.
1622. *Scutellaria lateriflora* L. Mad-dog Skulleap. General.
1623. *Scutellaria serrata* Andr. Showy Skulleap. Gallia County.
1624. *Scutellaria incana* Muhl. Downy Skulleap. Eastern and southern Ohio; from Cuyahoga and Wayne Counties eastward and from Perry and Miami Counties southward.
1625. *Scutellaria cordifolia* Muhl. Heartleaf Skulleap. Rather general.
1626. *Scutellaria pilosa* Mx. Hairy Skulleap. No specimens.
1627. *Scutellaria integrifolia* L. Hyssop Skulleap. Jackson County.
1628. *Scutellaria parvula* Mx. Small Skulleap. Ottawa, Madison, Clark, Hamilton, Gallia, Franklin, Greene, Montgomery, Scioto.
1629. *Scutellaria saxatilis* Ridd. Rock Skulleap. No specimens.
1630. *Scutellaria galericulata* L. Marsh Skulleap. Rather general; no specimens south of Clark and Perry Counties.

1631. *Scutellaria nervosa* Pursh. Veined Skullcap. Rather general.
1632. *Marrubium vulgare* L. Common Hoarhound. General. Naturalized from Europe.
1633. *Hedeoma pulegioides* (L.) Pers. American Pennyroyal. General and abundant.
1634. *Hedeoma hispida* Pursh. Rough Pennyroyal. (Moseley Herbarium—Lorain County.)
1635. *Melissa officinalis* L. Lemon Balm. Rather general; no specimens from the northwestern counties. From Europe.
1636. *Satureia hortensis* L. Summer Savory. Ottawa, Lake. From Europe.
1637. *Clinopodium vulgare* L. Field Basil. Rather general; no specimens from southeastern and northwestern counties.
1638. *Clinopodium glabrum* (Nutt.) Ktz. Low Calamint. Ottawa, Erie, Union, Greene.
1639. *Koellia virginiana* (L.) MacM. Virginia Mountain-mint. Rather general.
1640. *Koellia flexuosa* (Walt.) MacM. Narrowleaf Mountain-mint. Rather general.
1641. *Koellia pilosa* (Nutt.) Britt. Hairy Mountain-mint. Cuyahoga, Stark, Hocking, Clark, Shelby.
1642. *Koellia incana* (L.) Ktz. Hoary Mountain-mint. Stark, Fairfield, Hocking, Jackson, Gallia, Scioto, Adams.
1643. *Koellia nutica* (L.) Britt. Short-toothed Mountain-mint. Licking, Cuyahoga.
1644. *Origanum vulgare* L. Wild Majoram. Hocking County. From Europe.
1645. *Thymus serpyllum* L. Creeping Thyme. Coshocton, Gallia. From Europe.
1646. *Cunila origanoides* (L.) Britt. American Dittany. Southeastern Ohio to Tuscarawas, Fairfield, Ross, and Adams Counties.
1647. *Lycopus virginicus* L. Virginia Water-hoarhound. Rather general.
1648. *Lycopus uniflorus* Mx. Northern Water-hoarhound. Belmont County.
1649. *Lycopus rubellus* Moench. Stalked Water-hoarhound. Geauga, Wayne, Cuyahoga, Erie, Huron, Paulding, Auglaize, Fairfield, Clinton, Montgomery.
1650. *Lycopus americanus* Muhl. Cutleaf Water-hoarhound. General

1651. *Mentha spicata* L. Spearmint. General. Naturalized from Europe.
1652. *Mentha piperita* L. Peppermint. General. Naturalized from Europe.
1653. *Mentha citrata* Ehrh. Bergamot Mint. Lake, Franklin. From Europe.
1654. *Mentha longifolia* (L.) Huds. European Mint. Lake County. From Europe.
1655. *Mentha rotundifolia* (L.) Huds. Roundleaf Mint. Franklin County—a waif. From Europe.
1656. *Mentha alopecuroides* Hull. Woolly Mint. Franklin County. From Europe.
1657. *Mentha arvensis* L. Field Mint. Lake County. From Europe.
1658. *Mentha cardiaca* Gerarde. Small-leaf Mint. Montgomery County. From Europe.
1659. *Mentha canadensis* L. American Wild Mint. General.
1660. *Collinsonia canadensis* L. Stone-root. General.
1661. *Perilla frutescens* (L.) Britt. Perilla. Warren County. Native of India.
1662. *Agastache nepetoides* (L.) Ktz. Catnip Giant-hyssop. General.
1663. *Agastache scrophulariaefolia* (Willd.) Ktz. Figwort Giant-hyssop. Medina, Stark, Auglaize, Champaign, Madison, Hoeking.
1664. *Nepeta cataria* L. Catnip. General and abundant. Naturalized from Europe.
1665. *Glechoma hederacea* L. Ground Ivy. General and abundant. Naturalized from Europe.
1666. *Prunella vulgaris* L. Common Self-heal. General and abundant. Native of Europe.
1667. *Dracocephalum virginianum* L. Virginia Dragon-head. Rather general.
1668. *Synandra hispidula* (Mx.) Britt. Synandra. Belmont, Wyandot, Franklin, Miami, Hamilton, Clermont, Lawrence.
1669. *Galeopsis tetralix* L. Hemp-nettle. Lake County. From Europe.
1670. *Leonurus cardiaca* L. Common Motherwort. General and abundant. Naturalized from Europe.
1671. *Lamium amplexicaule* L. Common Henbit. Rather general. From Europe.

1672. *Lamium purpureum* L. Red Henbit. Warren, Erie, Lorain.
From Europe.
1673. *Lamium maculatum* L. Spotted Henbit. Washington, Miami,
Knox, Marion, Auglaize, Lorain. From Europe.
1674. *Lamium album* L. White Henbit. Miami, Lorain. From
Europe.
1675. *Stachys palustris* L. Marsh Hedge-nettle. Rather general.
1676. *Stachys tenuifolia* Willd. Smooth Hedge-nettle. Rather general.
1677. *Stachys asper* Mx. Rough Hedge-nettle. Rather general.
1678. *Stachys cordata* Ridd. Cordate Hedge-nettle. Southern Ohio,
as far north as Noble, Franklin, and Auglaize Counties.
1679. *Blephilia ciliata* (L.) Raf. Downy Blephilia. Northern part of
the state; as far south as Harrison, Franklin, and Mont-
gomery Counties.
1680. *Blephilia hirsuta* (Prush) Torr. Hairy Blephilia. General.
1681. *Monarda punctata* L. Horsemint. No specimens.
1682. *Monarda didyma* L. American Beebalm. Trumbull, Portage,
Cuyahoga, Medina, Madison.
1683. *Monarda clinopodia* L. Basil Balm. General.
1684. *Monarda fistulosa* L. Wild Bergamot. General and abundant.
1685. *Monarda mollis* L. Canescent Wild Bergamot. Rather general.
1686. *Salvia lyrata* L. Lyreleaf Sage. Pike, Lawrence, Gallia, Meigs.
1687. *Salvia lanceifolia* Poir. Lanceleaf Sage. Franklin County.
From the West.
1688. *Salvia verbenaca* L. Wild Sage. No specimens. From Europe.
1689. *Salvia officinalis* L. Common Sage. Stark County. Escaped.

Phrymaceae. Lopseed Family.

1690. *Phryma leptostachya* L. Lopseed. General.

Order, *Plantaginales*.

Plantaginaceae. Plantain Family.

1691. *Plantago cordata* Lam. Heartleaf Plantain. Lucas, Auglaize,
Madison, Franklin.
1692. *Plantago rugellii* Dec. Rugel's Plantain. General and abundant.
1693. *Plantago major* L. Common Plantain. Rather general.
1694. *Plantago lanceolata* L. Ribgrass Plantain. General and abun-
dant. Naturalized from Europe.
1695. *Plantago aristata* Mx. Large-bracted Plantain. Rather general.

1696. *Plantago virginica* L. Dwarf Plantain. Gallia, Jackson, Pike, Ross, Stark, Cuyahoga, Lake.
 1697. *Plantago arenaria* W. & K. Sand Plantain. Montgomery County. From Europe.

Subclass, *INFERRAE*.

Order, *Umbellales*.

Araliaceae. Ginseng Family.

1698. *Aralia spinosa* L. Angelica-tree. Clermont, Hocking.
 1699. *Aralia racemosa* L. American Spikenard. General.
 1700. *Aralia nudicaulis* L. Wild Sarsaparilla. Northern part of state, as far south as Licking County.
 1701. *Aralia hispida* Vent. Bristly Sarsaparilla. Lake, Cuyahoga.
 1702. *Panax quinquefolium* L. Common Ginseng. General.
 1703. *Panax trifolium* L. Dwarf Ginseng. Columbiana, Cuyahoga, Lorain, Medina, Seneca, Richland.

Ammiaceae. Carrot Family.

1704. *Eryngium aquaticum* L. Rattlesnake-master. Wyandot, Erie.
 1705. *Sanicula marylandica* L. Black Snakeroot. Rather general.
 1706. *Sanicula gregaria* Bickn. Clustered Snakeroot. Rather general.
 1707. *Sanicula canadensis* L. Short-styled Snakeroot. General and abundant.
 1708. *Sanicula trifoliata* Bickn. Large-fruited Snakeroot. Southern and eastern part of state to Geauga, Morrow, and Preble Counties.
 1709. *Deringa canadensis* (L.) Ktz. Honewort. General.
 1710. *Chaerophyllum procreans* (L.) Crantz. Spreading Chervil. General.
 1711. *Washingtonia claytoni* (Mx.) Britt. Woolly Sweet-cicely. General.
 1712. *Washingtonia longistylis* (Torr.) Britt. Long-styled Sweet-cicely. General.
 1713. *Scandix peeten-veneris* L. Venus'-comb. Lake County. From Europe.
 1714. *Pastinaca sativa* L. Wild Parsnip. General and abundant. Naturalized from Europe.
 1715. *Heraclenum lanatum* Mx. Cow-parsnip. Rather general.

1716. *Conioselinum chinense* (L.) B. S. P. Hemlock-parsley. Lake, Summit.
1717. *Angelica atropurpurea* L. Purple-stemmed Angelica. Rather general.
1718. *Angelica villosa* (Walt.) B. S. P. Pubescent Angelica. Eastern half of state, west to Adams, Fairfield and Richland Counties.
1719. *Oxypolis rigidus* (L.) Raf. Cowbane. Hamilton, Clark, Franklin, Erie, Fulton, Champaign, Huron, Montgomery, Madison.
1720. *Bupleurum rotundifolium* L. Hare's-ear. Warren County. From Europe.
1721. *Thaspium trifoliatum* (L.) Britt. Purple Meadow-parsnip. **General.**
1722. *Thaspium barbinode* (Mx.) Nutt. Hairy-jointed Meadow-parsnip. **General.**
1723. *Taenidia integerrima* (L.) Drude. Yellow Pimpernel. **General.**
1724. *Zizia aurea* (L.) Koch. Early Meadow-parsnip. Rather general.
1725. *Zizia cordata* (Walt.) DC. Heartleaf Meadow-parsnip. Lorain, Richland, Wyandot, Madison, Franklin, Warren, Gallia, Washington.
1726. *Apium petroselinum* L. Parsley. Madison County. Escaped from cultivation.
1727. *Foeniculum foeniculum* (L.) Karst. Fennel. Hocking, Scioto. From Europe.
1728. *Aethusa cynapium* L. Fool's Parsley. Lake County. From Europe.
1729. *Hydrocotyle umbellata* L. Umbellate Marsh-pennywort. Portage, Stark.
1730. *Hydrocotyle americana* L. American Marsh-pennywort. Cuyahoga, Summit, Wayne, Stark.
1731. *Erigenia bulbosa* (Mx.) Nutt. Harbenger-of-spring. **General.**
1732. *Conium maculatum* L. Poison-hemlock. Montgomery, Knox, Lake. From Europe.
1733. *Aegopodium podagraria* L. Goutweed. Lake County. From Europe.
1734. *Eulophus americanus* Nutt. Eastern Eulophus. No specimens.
1735. *Pimpinella saxifraga* L. Pimpernel. No specimens. From Europe.

1736. *Sium cicutifolium* Schrank. Water-parsnip. General, but no specimens from the southern counties.
1737. *Cicuta maculata* L. Spotted Water-hemlock. General.
1738. *Cicuta bulbifera* L. Bulb-bearing Water-hemlock. Northern part of state south to Perry and Clark Counties.
1739. *Carum carvi* L. Caraway. Columbiana, Ashland, Lorain, Fulton. From Europe.
1740. *Daucus carota* L. Wild Carrot. General and abundant. Naturalized from Europe.
1741. *Torilis anthriscus* (L.) Gmel. Erect Hedge-parsley. Hamilton County. From Europe.

Cornaceae. Dogwood Family.

1742. *Cornus alternifolia* L. f. Blue Dogwood. General.
1743. *Cornus femina* Mill. Pannicled Dogwood. General in the northern half of the state.
1744. *Cornus stolonifera* Mx. Red-osier Dogwood. General in the northern part of the state, south to Stark, Morrow, and Montgomery Counties.
1745. *Cornus asperifolia* Mx. Roughleaf Dogwood. General.
1746. *Cornus amomum* Mill. Silky Dogwood. General and abundant.
1747. *Cornus rugosa* Lam. Roundleaf Dogwood. Cuyahoga, Summit, Warren.
1748. *Cynoxylon floridum* (L.) Raf. Flowering Dogwood. General and abundant.
1749. *Cynoxylon canadense* (L.) Dwarf Dogwood. Stark, Licking.
1750. *Nyssa sylvatica* Marsh. Tupelo. General.

Order, *Rubiales*.

Rubiaceae. Madder Family.

1751. *Houstonia coerulea* L. Bluets. Southeastern two-thirds of the state as far northwest as Cuyahoga, Crawford, Clark, and Hamilton Counties.
1752. *Houstonia purpurea* L. Large Houstonia. Clermont, Butler, Highland, Warren.
1753. *Houstonia ciliolata* Torr. Fringed Houstonia. Lawrence, Licking, Franklin, Delaware, Defiance, Lucas, Ottawa, Cuyahoga, Lake.

1754. *Houstonia longifolia* Gaertn. Longleaf Houstonia. Rather general, but Ottawa the only northern county represented in the herbarium.
1755. *Houstonia tenuifolia* Nutt. Slenderleaf Houstonia. No specimens.
1756. *Houstonia angustifolia* Mx. Narrowleaf Houstonia. Ottawa County.
1757. *Cephalanthus occidentalis* L. Button-bush. General and abundant.
1758. *Micella repens* L. Partridge-berry. Rather general.
1759. *Spermacoce glabra* Mx. Smooth Buttonweed. No specimens.
1760. *Diodia teres* Walt. Rough Buttonweed. Lake County.
1761. *Galium pilosum* Ait. Hairy Bedstraw. Eastern Ohio; as far west as Lorain, Knox, Fairfield, and Adams Counties.
1762. *Galium lanceolatum* Torr. Lanceleaf Wild Licorice. Rather general.
1763. *Galium circaezans* Mx. Wild Licorice. General and abundant.
1764. *Galium boreale* L. Northern Bedstraw. Ottawa, Lorain.
1765. *Galium triflorum* Mx. Fragrant Bedstraw. General.
1766. *Galium mollugo* L. White Bedstraw. Lake, Fayette. From Europe.
1767. *Galium tinctorium* L. Stiff Marsh Bedstraw. Rather general.
1768. *Galium trifidum* L. Small Bedstraw. Northern Ohio, as far south as Shelby, Madison, Perry, and Harrison Counties.
1769. *Galium claytoni* Mx. Clayton's Bedstraw. Erie County.
1770. *Galium concinnum* T. & G. Shining Bedstraw. General and abundant.
1771. *Galium asprellum* Mx. Rough Bedstraw. Rather general; no specimens from the southern counties.
1772. *Galium aparine* L. Common Cleavers. General and abundant.
1773. *Sherardia arvensis* L. Blue Field-madder. Cuyahoga County. From Europe.

Caprifoliaceae. Honeysuckle Family.

1774. *Sambucus canadensis* L. Common Elderberry. General and abundant.
1775. *Sambucus racemosa* L. Red Elderberry. Rather general.
1776. *Viburnum pubescens* (Ait.) Pursh. Downy Arrow-wood. Lorain, Erie, Wyandot, Auglaize, Williams.

1777. *Viburnum dentatum* L. Toothed Arrow-wood. Ashtabula, Geauga, Lorain, Summit, Stark, Wayne, Ashland, Tuscarawas.
1778. *Viburnum scabellum* (T. & G.) Chapm. Roughleaf Arrow-wood. Adams, Brown, Hocking, Madison.
1779. *Viburnum cassinoides* L. Withe-rod. Ashtabula, Geauga, Cuyahoga, Summit, Lorain, Hocking.
1780. *Viburnum lentago* L. Sheepberry. Rather general.
1781. *Viburnum prunifolium* L. Black Haw. General.
1782. *Viburnum lantana* L. Wayfaring-tree. Lake County. From Europe.
1783. *Viburnum acerifolium* L. Mapleleaf Arrow-wood. General.
1784. *Viburnum opulus* L. Cranberry-tree. Lake, Geauga, Campaign.
1785. *Viburnum alnifolium* Marsh. Hobblebush. Ashtabula, Lake
1786. *Triostemum angustifolium* L. Yellow Horse-gentian. Cuyahoga, Warren, Clermont.
1787. *Triostemum perfoliatum* L. Common Horse-gentian. General.
1788. *Symphoricarpos racemosus* Mx. Snowberry. Rather general.
1789. *Symphoricarpos symphoricarpos* (L.) MacM. Coralberry. General.
1790. *Lonicera canadensis* Marsh. American Fly Honeysuckle. Lake, Summit, Cuyahoga, Lorain.
1791. *Lonicera oblongifolia* (Goldie) Hook. Swamp Fly Honeysuckle. Cuyahoga County.
1792. *Lonicera tartarica* L. Tartarian Honeysuckle. Ashtabula, Lake, Cuyahoga, Lorain, Licking, Franklin, Auglaize. Escaped from cultivation.
1793. *Lonicera xylosteum* L. European Fly Honeysuckle. Lake County. Native of Europe.
1794. *Lonicera japonica* Thunb. Japanese Honeysuckle. Adams, Brown, Auglaize. Escaped from cultivation.
1795. *Lonicera sempervirens* L. Trumpet Honeysuckle. Cuyahoga County.
1796. *Lonicera caprifolium* L. Italian Honeysuckle. No specimens. From Europe.
1797. *Lonicera hirsuta* Eaton. Hairy Honeysuckle. Ottawa, Lorain, Monroe.
1798. *Lonicera glaucescens* Rydb. Glauscent Honeysuckle. General.

1799. *Lonicera sullivantii* Gr. Sullivan's Honeysuckle. Stark, Muskingum, Franklin, Madison, Clark, Highland.
1800. *Lonicera dioica* L. Smoothleaf Honeysuckle. Champaign, Franklin.
1801. *Linnaea americana* Forbes. American Twin-flower. Stark County.
1802. *Diervilla diervilla* (L.) MacM. Bush-honeysuckle. Lucas, Lorain, Summit, Wayne, Stark, Franklin.

Valerianaceae. Valerian Family.

1803. *Valerianella locusta* (L.) Bettke. European Corn-salad. Hamilton, Ross, Lorain, Cuyahoga. From Europe.
1804. *Valerianella chenopodifolia* (Pursh.) DC. Goosefoot Corn-salad. Rather general.
1805. *Valerianella radiata* (L.) Dufur. Beaked Corn-salad. General.
1806. *Valerianella woodsiana* (T. & G.) Walp. Wood's Corn-salad. Erie, Richland, Franklin, Clark.
1807. *Valeriana pauciflora* Mx. Large-flowered Valerian. Western half of Ohio, as far east as Ottawa, Franklin, and Lawrence Counties.
1808. *Valeriana edulis* Nutt. Edible Valerian. Champaign County.
1809. *Valeriana officinalis* L. Garden Valerian. Ashtabula, Lake. From Europe.

Order, *Campanulales*.

Campanulaceae. Bellflower Family.

1810. *Campanula rapunculoides* L. European Bellflower. Cuyahoga, Lorain, Auglaize, Crawford, Carroll, Franklin, Hamilton. From Europe.
1811. *Campanula americana* L. Tall Bellflower. General and abundant.
1812. *Campanula rotundifolia* L. Harebell. Ottawa County.
1813. *Campanula aparinoides* Pursh. Marsh Bellflower. Rather general; no specimens from the southeastern and northwestern counties.
1814. *Specularia perfoliata* (L.) DC. Venus'-looking-glass. General

Lobeliaceae. Lobelia Family.

1815. *Lobelia cardinalis* L. Cardinal Lobelia. General.

1816. *Lobelia siphilitica* L. Blue Lobelia. General and abundant.
 1817. *Lobelia puberula* Mx. Downy Lobelia. Gallia, Meigs, Hocking.
 1818. *Lobelia spicata* Lam. Pale Spiked Lobelia. General.
 1819. *Lobelia leptostachys* A. DC. Spiked Lobelia. Adams, Gallia,
 Meigs, Hocking, Fairfield, Clark.
 1820. *Lobelia inflata* L. Indian-tobacco. General.
 1821. *Lobelia kalmii* L. Kalm's Lobelia. General.

Order, *Compositales*.

Dipsacaceae. Teazel Family.

1822. *Dipsacus sylvestris* Huds. Wild Teazel. General and abundant.
 Naturalized from Europe.

Ambrosiaceae. Ragweed Family.

1823. *Xanthium pennsylvanicum* Wallr. Pennsylvania Cocklebur.
 General.
 1824. *Xanthium americanum* Walt. American Cocklebur. Athens,
 Vinton, Washington.
 1825. *Xanthium spinosum* L. Spiny Cocklebur. Montgomery County.
 Introduced.
 1826. *Ambrosia trifida* L. Giant Ragweed. General.
 1827. *Ambrosia psilostachya* DC. Western Ragweed. Franklin, Lake.
 Introduced from the West.
 1828. *Ambrosia elatior* L. Roman Ragweed. General and abundant.

Helianthaceae. Sunflower Family.

1829. *Helopsis helianthoides* (L.) Sw. Smooth Oxeye. General and
 abundant.
 1830. *Helopsis scabra* Dunal. Rough Oxeye. Erie, Wyandot, Wayne,
 Madison, Ross.
 1831. *Verbesina alba* L. Verbesina. Rather general.
 1832. *Rudbeckia triloba* L. Thinleaf Cone-flower. Rather general;
 no specimens from the eastern counties.
 1833. *Rudbeckia hirta* L. Black-eyed-Susan. General and abundant.
 1834. *Rudbeckia fulgida* Ait. Orange Cone-flower. Franklin, Union.
 1835. *Rudbeckia speciosa* Wend. Showy Cone-flower. Montgomery,
 Champaign, Madison, Franklin.
 1835a. *Rudbeckia speciosa sullivanii* (Boy. & Bead.) Rob. No spec-
 imens.

1836. *Rudbeckia laciniata* L. Tall Cone-flower. General.
1837. *Ratibida pinnata* (Vent.) Baruh. Tall Nigger-head. Rather general.
1838. *Ratibida columnaris* (Sims.) D. Don. Prairie Nigger-head. A waif in Franklin County.
1839. *Echinacea purpurea* (L.) Moench. Purple Cone-flower. Clark, Madison, Franklin, Holmes, Lucas.
1840. *Helianthus occidentalis* Ridd. Fewleaf Sunflower. Fulton, Erie, Franklin.
1841. *Helianthus microcephalus* T. & G. Small Wood Sunflower. Rather general.
1842. *Helianthus giganteus* L. Giant Sunflower. From Erie, Richland, and Fairfield Counties westward.
1843. *Helianthus maximiliani* Schrad. Maximilian's Sunflower. Lake, Franklin. From the West.
1844. *Helianthus grosse-serratus* Mart. Sawtooth Sunflower. Cuyahoga, Erie, Huron, Wood, Auglaize, Clark, Madison.
1845. *Helianthus kellermani* Britt. Kellerman's Sunflower. Franklin County.
1846. *Helianthus divaricatus* L. Woodland Sunflower. Rather general.
1847. *Helianthus mollis* Lam. Hairy Sunflower. Erie, Franklin.
1848. *Helianthus doricoides* Lam. Oblong-leaf Sunflower. Rather general; no specimens from the eastern and southeastern counties.
1849. *Helianthus decapetalus* L. Thinleaf Sunflower. Rather general.
1850. *Helianthus trachelifolius* Mill. Throatwort Sunflower. Rather general; no specimens from the southeastern third of Ohio.
1851. *Helianthus strumosus* L. Paleleaf Wood Sunflower. Rather general; no specimens from the southeastern third of the state.
1852. *Helianthus hirsutus* Raf. Hirsute Sunflower. General.
1853. *Helianthus laetiflorus* Pers. Showy Sunflower. Franklin, Wayne.
1854. *Helianthus tuberosus* L. Jerusalem Artichoke. General.
1855. *Helianthus annuus* L. Common Sunflower. Rather general. From the West.
1856. *Helianthus petiolaris* Nutt. Prairie Sunflower. Lake County. From the West.

1857. *Phaethusa helianthoides* (Mx.) Britt. Sunflower Crownbeard. Madison, Clark, Adams.
1858. *Ridan alternifolius* (L.) Britt. Ridan. General.
1859. *Coreopsis lanceolata* L. Lance-leaf Tickseed. Franklin County.
1860. *Coreopsis tripteris* L. Tall Tickseed. Rather general.
1861. *Coreopsis major* Walt. Greater Tickseed. Gallia, Lawrence, Scioto.
1862. *Coreopsis verticillata* L. Whorled Tickseed. No specimens.
1863. *Coreopsis tinctoria* Nutt. Garden Tickseed. Montgomery, Franklin, Cuyahoga. From the West.
1864. *Bidens laevis* (L.) B. S. P. Smooth Bur-marigold. Columbiana, Erie, Logan, Hamilton.
1865. *Bidens cernua* L. Nodding Bur-marigold. General.
1866. *Bidens connata* Muhl. Swamp Bur-marigold. Rather general.
1867. *Bidens comosa* (Gr.) Wieg. Leafy-bracted Bur-marigold. Auglaize, Delaware, Franklin, Vinton, Belmont.
1868. *Bidens discoidea* (T. & G.) Britt. Small Beggar-ticks. Erie County.
1869. *Bidens frondosa* L. Black Beggar-ticks. Meigs, Vinton, Holmes.
1870. *Bidens vulgata* Greene. Tall Beggar-ticks. General.
1871. *Bidens bipinnata* L. Spanish-needles. Rather general; no specimens from the northwestern counties.
1872. *Bidens trichosperma* (Mx.) Britt. Tall Tickseed. General.
1873. *Bidens aristosa* (Mx.) Britt. Western Tickseed. Wyandot, Champaign, Clark, Madison.
1874. *Megalodonta beekii* (Torr.) Greene. Water-marigold. Erie, Stark.
1875. *Galinsoga parviflora* Cav. Galinsoga. Lake, Cuyahoga, Licking, Belmont, Columbiana, Jefferson, Monroe, Franklin, Montgomery. From tropical America.
1876. *Polynnia uvedalia* L. Yellow Leaf-eup. Cuyahoga, Noble, Gallia, Lawrence, Clermont, Clark.
1877. *Polynnia canadensis* L. Small-flowered Leaf-eup. General.
1878. *Silphium integrifolium* Mx. Entire-leaf Rosin-weed. No specimens.
1879. *Silphium trifoliatum* L. Whorled Rosin-weed. Rather general; no specimens from the northwestern counties.
1880. *Silphium laciniatum* L. Compass-plant. Summit County.
1881. *Silphium perfoliatum* L. Indian-cup. General.

1882. *Silphium terebinthinaceum* Jacq. Prairie Dock (Rosin-weed). Cuyahoga, Wayne, Erie, Ottawa, Lucas, Fulton, Defiance, Hancock, Champaign, Clark, Madison.
1883. *Parthenium hysterophorus* L. Parthenium. A waif in Franklin County.
1884. *Tetranuris herbacea* Greene. Eastern Tetranuris. Ottawa County.
1885. *Helenium autumnale* L. Common Sneezeweed. Rather general; no specimens from the southeastern counties.
1886. *Helenium nudiflorum* Nutt. Purple-headed Sneezeweed. Lake, Franklin.
1887. *Helenium tenuifolium* Nutt. Slender-leaf Sneezeweed. Franklin, Lake.
1888. *Boebera papposa* (Vent.) Rydb. Fetid Marigold. Franklin, Delaware, Logan, Madison, Hamilton. From the West.
1889. *Inula helenium* L. Elecampane. General, but no specimens from the southernmost counties. From Europe.
1890. *Gifola germanica* (L.) Dun. Herb Impius. Guernsey County. From Europe.
1891. *Gnaphalium obtusifolium* L. Fragrant Cudweed. General.
1892. *Gnaphalium decurrens* Ives. Clammy Cudweed. Cuyahoga County.
1893. *Gnaphalium uliginosum* L. Marsh Cudweed. General.
1894. *Gnaphalium purpureum* L. Purplish Cudweed. Rather general.
1895. *Anaphalis margaritacea* (L.) Benth. & Hook. Pearly Everlasting. Cuyahoga County.
1896. *Antennaria parlinii* Fern. Parlin's Everlasting. General.
1897. *Antennaria solitaria* Rydb. Single-headed Everlasting. Lawrence County.
1898. *Antennaria plantaginifolia* (L.) Rich. Plantain-leaf Everlasting. General.
1899. *Antennaria neodioica* Greene. Smaller Everlasting. Lake, Auglaize.
1900. *Antennaria neglecta* Greene. Field Everlasting. Rather general.
1901. *Grindelia squarrosa* (Pursh) Dun. Broadleaf Gum-plant. Hamilton County. From the West.
1902. *Chrysopsis graminifolia* (Mx.) Ell. Grassleaf Golden-aster. No specimens.

1903. *Chrysopsis mariana* (L.) Nutt. Maryland Golden-aster. Hocking, Jackson.
1904. *Solidago squarrosa* Muhl. Stout Goldenrod. Ashtabula, Lake, Cuyahoga.
1905. *Solidago caesia* L. Wreath Goldenrod. General.
1906. *Solidago flexicaulis* L. Zig-zag Goldenrod. Eastern Ohio, as far west as Cuyahoga, Fairfield, Jackson, and Lawrence Counties; also in Ottawa County.
1907. *Solidago bicolor* L. White Goldenrod. Columbiana, Geauga, Cuyahoga, Summit, Wayne, Erie, Fairfield, Vinton, Jackson, Lawrence.
1908. *Solidago hispida* Muhl. Hairy Goldenrod. Ottawa, Lake.
1909. *Solidago erecta* Pursh. Slender Goldenrod. Fairfield, Hocking, Meigs.
1910. *Solidago uliginosa* Nutt. Bog Goldenrod. Lucas, Portage, Stark, Wayne, Licking, Franklin.
1911. *Solidago speciosa* Nutt. Showy Goldenrod. Lucas, Franklin, Fairfield, Lawrence.
1912. *Solidago rigidiuscula* (T. & G.) Port. Slender Showy Goldenrod. Erie, Wyandot, Wood, Lucas, Fulton.
1913. *Solidago rugosa* Mill. Wrinkle-leaf Goldenrod. Rather general.
1914. *Solidago patula* Muhl. Roughleaf Goldenrod. Rather general.
1915. *Solidago ulmifolia* Muhl. Elmleaf Goldenrod. Rather general.
1916. *Solidago neglecta* T. & G. Swamp Goldenrod. Wood, Madison, Fairfield.
1917. *Solidago juncea* Ait. Plume Goldenrod. Rather general.
1918. *Solidago arguta* Ait. Cutleaf Goldenrod. Erie County.
1919. *Solidago canadensis* L. Canada Goldenrod. General and abundant.
1920. *Solidago serotina* Ait. Late Goldenrod. General.
1921. *Solidago nemoralis* Ait. Gray Goldenrod. General.
1922. *Solidago rigida* L. Stiff Goldenrod. Erie, Ottawa, Lucas, Defiance, Auglaize, Madison, Franklin, Lawrence.
1923. *Solidago ohioensis* Ridd. Ohio Goldenrod. Stark, Erie, Wyandot, Franklin, Champaign, Clark, Montgomery.
1924. *Solidago riddellii* Frank. Riddell's Goldenrod. Lucas, Fulton, Wyandot, Franklin, Madison, Clark.
1925. *Euthamia graminifolia* (L.) Nutt. Bushy Fragrant Goldenrod. General.

1926. *Euthamia tenuifolia* (Pursh.) Greene. Slender Fragrant Goldenrod. Erie, Lucas, Cuyahoga, Lake.
1927. *Bellis perennis* L. European Daisy. Lake, Cuyahoga. From Europe.
1928. *Boltonia asteroides* (L.) L'Her. Boltonia. Erie, Ottawa, Lucas, Anglaize, Paulding, Defiance.
1929. *Sericocarpus linifolius* (L.) B. S. P. Narrowleaf Whitetop Aster. No specimens.
1930. *Sericocarpus asteroides* (L.) B. S. P. Toothed Whitetop Aster. Cuyahoga, Summit, Wayne, Holmes, Fairfield, Hocking, Jackson, Gallia, Lawrence.
1931. *Aster divaricatus* L. White Wood Aster. Meigs, Franklin, Fairfield, Lorain, Erie.
1932. *Aster macrophyllus* L. Largeleaf Aster. Rather general; no specimens from the southwestern counties.
1933. *Aster shortii* Hook. Short's Aster. From Franklin and Montgomery Counties southward; also in Lake and Ottawa Counties.
1934. *Aster azureus* Lindl. Azure Aster. Franklin, Wood, Fulton, Erie.
1935. *Aster cordifolius* L. Common Blue Wood Aster. Rather general.
1936. *Aster lowrieanus* Port. Lowrie's Aster. Lake, Cuyahoga, Anglaize, Fairfield, Hamilton.
1937. *Aster lindleyanus* T. & G. Lindley's Aster. Wayne, Franklin.
1938. *Aster drummondii* Lindl. Drummond's Aster. Madison County.
1939. *Aster saffittifolium* Willd. Arrowleaf Aster. Rather general.
1940. *Aster undulatus* L. Wavy-leaf Aster. Wayne County.
1941. *Aster patens* Ait. Late Purple Aster. Wayne County.
1942. *Aster phlogifolius* Muhl. Thinleaf Purple Aster. Wayne, Portage.
1943. *Aster novae-angliae* L. New England Aster. General.
1944. *Aster oblongifolius* Nutt. Aromatic Aster. No specimens.
1945. *Aster puniceus* L. Purple-stem Aster. Rather general.
1946. *Aster prenanthoides* Muhl. Crooked-stem Aster. Rather general.
1947. *Aster laevis* L. Smooth Aster. Rather general.
1948. *Aster juncens* Ait. Rush Aster. Licking, Wayne.
1949. *Aster lateriflorus* (L.) Britt. Starved Aster. Rather general.
1950. *Aster hirsuticaulis* Lindl. Roughstem Aster. Warren, Anglaize.
1951. *Aster vimineus* Lam. Small White Aster. Wayne County.

1952. *Aster multiflorus* Ait. Dense-flowered Aster. Lucas, Erie, Gallia.
1953. *Aster dumosus* L. Bushy Aster. Erie County.
1954. *Aster salicifolius* Lam. Willow Aster. Wayne County.
1955. *Aster paniculatus* Lam. Panicle Aster. General.
1956. *Aster tradescanti* L. Tradescant's Aster. Rather general.
1957. *Aster faxoni* Porter. Faxon's Aster. Vinton County.
1958. *Aster ericoides* L. White Heath Aster. General.
- 1958a. *Aster ericoides platyphyllus* T. & G. Western half of state, east to Erie, Franklin, and Meigs Counties.
1959. *Aster ptarmicoides* (Nees.) T. & G. Upland White Aster. (Ottawa County—Moseley Herbarium.)
1960. *Erigeron pulchellus* Mx. Showy Fleabane. General.
1961. *Erigeron philadelphicus* L. Philadelphia Fleabane. General.
1962. *Erigeron annuus* (L.) Pers. White-top Fleabane. General.
1963. *Erigeron ramosus* (Walt.) B. S. P. Daisy Fleabane. General.
1964. *Leptilon canadense* (L.) Britt. Common Horseweed. General.
1965. *Doellingeria umbellata* (Mill.) Nees. Tall White-top Aster. Rather general.
1966. *Doellingeria infirma* (Mx.) Greene. Infirm Aster. Portage County.
1967. *Ionaectis linariifolius* (L.) Greene. Stiffleaf Aster. Adams, Hocking.
1968. *Eupatorium maculatum* L. Spotted Joe-Pye-weed. General.
1969. *Eupatorium purpureum* L. Joe-Pye-weed. General.
1970. *Eupatorium serotinum* Mx. Late-flowering Thoroughwort. Hamilton County.
1971. *Eupatorium altissimum* L. Tall Thoroughwort. Hamilton, Montgomery, Franklin, Erie, Lucas.
1972. *Eupatorium sessilifolium* L. Upland Boneset. Southeastern half of state, to Montgomery, Franklin, Wayne, Portage and Hamilton Counties.
1973. *Eupatorium rotundifolium* L. Roundleaf Thoroughwort. Hocking County.
1974. *Eupatorium perfoliatum* L. Common Boneset. General.
1975. *Eupatorium urticaefolium* Reich. White Snake-root. General.
1976. *Eupatorium aromaticum* L. Smaller White Snake-root. Hocking County.

1977. *Eupatorium coelestinum* L. Mist-flower. Southern Ohio; north to Hamilton, Fairfield, and Washington Counties; also in Ashtabula County.
1978. *Kuhnia eupatorioides* L. False Boneset. Lucas, Erie, Clark, Franklin, Gallia, Lawrence.
1979. *Laciniaria squarrosa* (L.) Hill. Sealy Blazing-star. Lucas, Erie.
1980. *Laciniaria cylindrica* (Mx.) Ktz. Cylindric Blazing-star. Franklin County.
1981. *Laciniaria punctata* (Hook.) Ktz. Dotted Blazing-star. A waif in Franklin County.
1982. *Laciniaria scariosa* (L.) Hill. Large Blazing-star. Erie, Lucas, Fairfield.
1983. *Laciniaria spicata* (L.) Ktz. Dense Blazing-star. Paulding, Lucas, Wood, Erie, Wyandot, Champaign, Clark, Hocking.
1984. *Vernonia noveboracensis* (L.) Willd. New York Ironweed. Gallia County.
1985. *Vernonia altissima* Nutt. (*V. maxima* Small). Tall Ironweed. General and abundant.
1986. *Vernonia fasciculata* Mx. Western Ironweed. Erie County.
1987. *Vernonia missurica* Raf. Missouri Ironweed. Erie County.
1988. *Elephantopus carolinianus* Willd. Carolina Elephant's-foot. Scioto, Jackson.
1989. *Achillea millefolium* L. Common Milfoil. General and abundant.
1990. *Anthemis cotula* L. Common Dog-fennel. General and abundant. Naturalized from Europe.
1991. *Anthemis arvensis* L. Field Dog-fennel. Lorain, Lake. From Europe.
1992. *Anthemis tinctoria* L. Yellow Dog-fennel. Guernsey County. From Europe.
1993. *Chrysanthemum leucanthemum* L. Oxeye Daisy. General and abundant. Naturalized from Europe.
1994. *Chrysanthemum parthenium* (L.) Pers. Common Feverfew. Lake, Erie, Montgomery. From Europe.
1995. *Chrysanthemum balsamita* L. Sweet-Mary. Cuyahoga, Ottawa, Franklin, Madison. Escaped from gardens.
1996. *Chrysanthemum indicum* L. Chrysanthemum. Escaped in Adams County.
1997. *Matricaria inodora* L. Scentless Camomile. Lake, Lawrence. From Europe.

1998. *Matricaria chamomilla* L. German Camomile. Ottawa County. From Europe.
1999. *Matricaria matricarioides* (Lees.) Port. Rayless Camomile. Stark County. From the Pacific coast.
2000. *Tanacetum vulgare* L. Common Tansy. General. Naturalized from Europe.
2001. *Artemisia caudata* Mx. Wild Wormwood. Erie County.
2002. *Artemisia annua* L. Annual Wormwood. Rather general. Introduced.
2003. *Artemisia biennis* Willd. Biennial Wormwood. Ashtabula, Cuyahoga, Lucas, Anglaize, Shelby, Wyandot, Franklin.
2004. *Artemisia vulgaris* L. Common Mugwort. Escaped in Lake and Cuyahoga Counties.
2005. *Artemisia pontica* L. Roman Wormwood. Champaign, Portage. From Europe.
2006. *Artemisia gnaphalodes* Nutt. Prairie Cudweed. Lake County. From the West.
2007. *Erechtites hieracifolia* (L.) Raf. Fireweed. General.
2008. *Mesadenia reniformis* (Muhl.) Raf. Great Indian-plantain. Clermont, Greene.
2009. *Mesadenia atriplicifolia* (L.) Raf. Pale Indian-plantain. General.
2010. *Mesadenia tuberosa* (Nutt.) Britt. Tuberos Indian-plantain. Montgomery, Champaign, Logan.
2011. *Synosma suaveolens* (L.) Raf. Sweet-scented Indian-plantain. Cuyahoga, Lorain, Stark, Clark, Jackson.
2012. *Senecio aureus* L. Golden Squaw-weed. General.
2013. *Senecio obtvatus* Muhl. Roundleaf Squaw-weed. Rather general.
2014. *Senecio panperculus* Mx. Balsam Squaw-weed. Ottawa County.
2015. *Senecio vulgaris* L. Common Groundsel. Lake, Lorain, Anglaize. From Europe.
2016. *Tussilago farfara* L. Coltsfoot. Lake, Cuyahoga. From Europe.
2017. *Arcium tomentosum* (Lam.) Schk. Woolly Burdock. Erie County. From Europe.
2018. *Arcium lappa* L. Great Burdock. Lorain, Cuyahoga. From Europe.
2019. *Arcium minus* Schk. Common Burdock. General and abundant. Naturalized from Europe.

2020. *Cirsium lanceolatum* (L.) Hill. Spear Thistle. Rather general. From Europe.
2021. *Cirsium altissimum* (L.) Spreng. Tall Thistle. Rather general.
2022. *Cirsium discolor* (Muhl.) Spreng. Field Thistle. Western Ohio, as far east as Erie, Huron, Fairfield, and Clermont Counties.
2023. *Cirsium virginianum* (L.) Mx. Virginia Thistle. Madison County.
2025. *Cirsium nuticum* Mx. Swamp Thistle. General.
2026. *Cirsium arvense* (L.) Scop. Canada Thistle. General. From Europe.
2027. *Onopordon acanthium* L. Scotch Thistle. Hamilton, Wayne. From Europe.
2028. *Centaurea scabiosa* L. Scabious Star-thistle. Lake County. From Europe.
2029. *Centaurea jacea* L. Brown Star-thistle. Richland County. From Europe.
2030. *Centaurea cyanus* L. Bachelor's-Button. Montgomery, Franklin, Sandusky. Escaped from gardens.

Cichoriaceae. Chicory Family.

2031. *Cichorium intybus* L. Chicory. Rather general. Introduced from Europe.
2032. *Cynthia virginica* (L.) Don. Virginia Cynthia. General.
2033. *Lapsana communis* L. Nipplewort. Franklin, Lake. From Europe.
2034. *Arnoseris minima* (L.) Dum. Lamb Succory. Lake County. From Europe.
2035. *Hypochaeris radicata* L. Long-rooted Cat's-ear. Lake, Ashtabula. From Europe.
2036. *Apargia nudicaulis* (L.) Britt. Rough Hawkbit. Lake County. From Europe.
2037. *Tragopogon pratensis* L. Yellow Goat's-beard. Lake, Erie, Fulton, Auglaize, Franklin, Miami. From Europe.
2038. *Tragopogon porrifolius* L. Salsify. Rather general; no specimens from the southeastern third of the state. From Europe.
2039. *Sonchus arvensis* L. Field Sow-thistle. Lake, Franklin. From Europe.
2040. *Sonchus oleraceus* L. Common Sow-thistle. General. Naturalized from Europe.

2041. *Sonchus asper* (L.) Hill. Spiny Sow-thistle. General. Naturalized from Europe.
2042. *Lactuca virosa* L. Prickly Lettuce. General and abundant. Naturalized from Europe.
2043. *Lactuca saligna* L. Willow Lettuce. Franklin, Greene, Montgomery. From Europe.
2044. *Lactuca hirsuta* Muhl. Hairy Lettuce. Tuscarawas, Ross, Union.
2045. *Lactuca canadensis* L. Tall Lettuce. General.
2046. *Lactuca sagittifolia* Ell. Arrowleaf Lettuce. Fairfield County.
2047. *Lactuca villosa* Jacq. Hairy-veined Blue Lettuce. Miami, Montgomery.
2048. *Lactuca floridana* (L.) Gaertn. Florida Lettuce. From Erie, Franklin, and Ross Counties westward.
2049. *Lactuca spicata* (Lam.) Hitch. Tall Blue Lettuce. Rather general.
- 2049a. *Lactuca spicata aurea* Jennings. Holmes, Defiance, Cuyahoga, Franklin, Athens.
2050. *Nabalus altissimus* (L.) Hook. Tall Rattlesnake-root. General.
2051. *Nabalus albus* (L.) Hook. White Rattlesnake-root. General.
2052. *Nabalus asper* (Mx.) T. & G. Rough Rattlesnake-root. Erie County.
2053. *Nabalus racemosus* (Mx.) DC. Glauous Rattlesnake-root. Fulton, Lucas, Ottawa, Erie, Huron, Wyandot, Champaign, Clark.
2054. *Nabalus crepidineus* (Mx.) DC. Corymbed Rattlesnake-root. Cuyahoga, Champaign, Warren.
2055. *Hieracium canadense* Mx. Canada Hawkweed. Erie, Cuyahoga.
2056. *Hieracium paniculatum* L. Paniced Hawkweed. Cuyahoga, Wayne, Richland, Fairfield, Monroe.
2057. *Hieracium scabrum* Mx. Rough Hawkweed. General.
2058. *Hieracium gronovii* L. Gronovius' Hawkweed. Fulton, Erie, Franklin, Gallia.
2059. *Hieracium marianum* Willd. Maryland Hawkweed. No specimens.
2060. *Hieracium venosum* L. Veined Hawkweed. Eastern Ohio; west to Cuyahoga, Knox, Fairfield, Jackson, and Lawrence Counties.

2061. *Hieracium greenii* Port. & Britt. Green's Hawkweed. No specimens.
2062. *Hieracium pilosella* L. Mouse-ear Hawkweed. Lake County. From Europe.
2063. *Hieracium aurantiacum* L. Orange Hawkweed. Ashtabula, Geauga. From Europe.
2064. *Crepis capillaris* (L.) Wallr. Smooth Hawksbeard. Lake County. From Europe.
2065. *Leontodon taraxacum* L. Dandelion. General and very abundant. Naturalized from Europe.

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Bulletins Ohio Biological Survey

- I. Outline of Biological Survey Plan.
 Syrphidae of Ohio by C. L. Metcalf - - - \$.50
- II. Catalog of Ohio Vascular Plants
 by John H. Schaffner - - - - - .50
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