A CATALOGUE ON THE FLORA OF DETROIT

BY O. A. FARWELL, DETROIT, MICHIGAN

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A CATALOGUE OF THE FLORA OF DETROIT.

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(Reprinted, with additions, from Eleventh Annual Report Commissioners of Parks and Boulevards, Detroit.)

My field work at Detroit has been extended over a series of eight years and has been confined for the most part to the eastern part of the city. In Detroit, as in most western cities with a territory of several miles in extent, there are several localities where the soil has not been turned by the ploughshare nor the forest disturbed by the woodman's ax. Such a place is that known as the Linden Park subdivision. It is a plat of land comprising several acres and lies east of the boulevard between Kercheval avenue on the south and Gratiot avenue on the north; at the northeast corner of this plat is situated the old race course and driving park, now overgrown with shrubbery, etc.

Belle Isle is an island at the head of Detroit river, about two miles long by one-half in width. The lower half has been largely cleared and improved for park purposes, but the upper half is still adorned with its virginal vegetable splendors. It is to Detroit what Coney Island, Central Park, etc., is to New York and is visited by thousands of pleasure seekers every day during the hot summer months. It is a part of the Detroit park system and in order to gather any of the wild plants that grow upon the island a permit from the Board of Park and Boulevard Commissioners is a sine qua non; I have been most fortunate in this respect, having been able, with but one exception, to obtain a permit each year. The greater part of the plants mentioned in this list have been collected from one or the other of these localities, but the grassy banks along the thinly populated streets, the ditches or gutters, and the ballast grounds have yielded some interesting things; also the wooded fields near Palmer Park (of the park system of Detroit) but this locality is outside of the city.

The character of the soil is much the same in all these places, it being a low, slightly undulating plain mainly of clayey composition. We will not therefore find a varied flora. In the canals, rivets, and ponds may be seen the water lilies, the millfoils, the potamogetons and the utricularias; the low marshy grounds give rise to the buttercups, lilies and sedges; while such plants as the St. John's Wort, compositae and figworts are usually found growing on the drier grounds. In the River Rouge in the western part of the city may be found the rare American lotus, Nelumbo leutea (Willd.) Pers. This, however, I have been given to understand is not indigenous to this river but has probably been introduced from near Monroe. In Gray's Synoptical Flora the plant is said to be indigenous from Michigan and Minnesota to Texas and eastward. It has been said, however, that throughout the central states the plant is only an introduction, brought north by the Indians from farther south. Potamogeton rutilus, Mr. Wheeler informs me, was collected by himself in Detroit river just above Belle Isle but I have not as yet
seen it, it is a rare species in Michigan, having been found, I believe, in only one or two localities.

The ferns are few in number and each species is itself scarce; in the woods on Belle Isle may be found the Dryopteris simulata, recently separated from D. Thelypteris (Lin.) A. Gray by Mr. Davenport. It is a rare fern and more commonly met with in the eastern states. Michigan has not before been included in its range.

Some eastern plants have been creeping west; among these may be mentioned the Cardamine hirsuta Lin., the bitter cress; the Gymnervrum (Raf.) T. & G. or spring avens; the Physalis Philadelphica Lam., one of the ground cherries; the Euphorbia hirsuta (Torr.) Wiegl., the hairy spurge; and a variety of chicory Chichorium intybus Lin. var. diricarica DC. The Cardamine is rare in this country, being confined generally to the eastern Atlantic states, it is the first time, I believe, that it has been reported from west of the Appalachians. It was found in moist dense woods on the upper half of Belle Isle. The Euphorbia is another rare plant not before reported from west of New York; it has recently been separated from the E. mutans or E. hypericifolia which aggregate has given rise to several so called species. Another, the Aster ericoides L. var. platyphyllus T. & G. has crept up from the south; it is the first time it has been recorded for Michigan, and is quite common near the water works, on grassy banks. There is another peculiar form of aster which, perhaps, may turn out to be the rare Aster amethystinus Nutt., but it requires further study.

A rare and interesting find, as ballast waifs, were the Pacific coast Lupinus polycarpus Greene, Trifolium furcatum Lindl. and the T. depauperatum Desv. Among other ballast plants may be mentioned the Belladonna (Atropa Belladonna Lin.); the Ajowan (Carum Copicum (Lin.) Bth. & Hk.f.); and the common garden beet (Beta vulgaris Lin.). Probably a number of plants found on Belle Isle have been introduced by means of bouquets taken to the island by pleasure seekers and picnickers; as such, perhaps may be mentioned the American cowslip, Dodecatheon Meadia Lin.), the Hellebore (Helleborus viridis Lin.), the Rattlebox (CrotaIaria sagittalis Lin.), and the False Rue Anemone (Isopyrum biternatum (Raf.) T. & G.).

Several of our old and well known plants considered as single species by our older botanists have been split up into several by the younger botanists of the present generation. Whether or not these segregations are well taken can be told only by future field work and careful study. Among the old species so treated may be mentioned Panicum dichotomum Lin. which has been split into innumerable species of which we have three, the P. Columbianum Scribn., P. pubescens Lam., and P. launiaeosa Ell. Agropyron repens (L.) Beauv. has been divided and we now have in addition to the type the varieties agreste Anders. and pilosum Scribn. & Sm. and J. Smithii Rydb. Sisyrinchium Bermudiana Lin. has also been segregated and we now have S. graminoides Bicknell and S. albicbam Raf. On the northeast corner of Belle Isle is an artificial lake constructed to reclaim a large tract of marshy ground. On the present site of the lake was discovered, several years ago, a peculiar Sisyrinchium. Instead of having flat winged stems and leaves as usual these were almost thread-like or terete; the bases of the leaves were
somewhat broadened and slightly hastate hence the name *S. hastilc*. The construction of the lake mentioned above, I have no doubt, has destroyed the locality. Another species collected by the author near Birmingham has been named by Mr. Bicknell after the discoverer. I believe that several other new species from Michigan have been described as well as a score or more from other districts of the country. *Viola obliqua* Hill and *Viola sororia* Wild. have been eliminated from *V. cuculata* Ait.; *V. emarginata* (Nutt.) Le Conte and *V. ovata* Nutt. have been separated from *V. sagittata* Ait. The common plantain everlasting (*Antennaria plantaginefolium* (Lin.) Richards.) has been divided into a score or more species. Among those found at Detroit may be mentioned *A. neodioica* Greene var. *attenuata* Fernald; *A. neglecta* Greene; *A. occidentalis* Greene; and *A. arnoglossa* Greene var. *ambigens* Greene.

This list does not by any means represent a complete flora of Detroit, but only the results of such work as I have been enabled to do in the field. The sequence of families and nomenclature adopted in this list, except where the application of the rules of priority would require a change, are those exemplified in the Naturlichen Pflanzenfamilien of Engler and Prantl.

**SUMMARY.**

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**SUBKINGDOM 1. PTERIDOPHYTA.**

**ORDER 1. FILICALES.**

**FAMILY 1. OPHIOGLOSSACEÆ.** Adders Tongue Family.


**FAMILY 2. OSMUNDACEÆ.** Royal Fern Family.

   These three ferns are found on low ground at Linden Park.

**FAMILY 3. POLYPODIACEÆ.** Fern Family.

   Common in moist thickets on Belle Isle and main land.
4. DRYOPTERIS, Adans. Shield Ferns.
   6. Thelypteris (Lin.) A. Gray. More or less frequent on Belle Isle.
   7. simulata, Davenport. More or less frequent on Belle Isle.
   8. marginalis (Lin.) A. Gray. In woods at Linden Park. Rare.

5. ADIANTUM, Lin. Maiden-hair Fern.
   9. pedatum, Lin.
      Thickets on Belle Isle, more or less frequent.

Order 2. Equisetales.


   11. pratense, Ehrh. Thickets on Belle Isle. Rare.

Subkingdom 2. Spermatophyta.

Class Angiospermae.

Subclass 1. Monocotyledones.

Order 1. Pandanales.

Family 1. Typhaceae. Cat-tail Family.

1. Typha, Lin.
   1. latifolia, Lin. Cat-tail. Sandy grounds on Belle Isle. Rare.


2. Sparganium, Lin.

Order 2. Naiadales.


3. Potamogeton, Lin.
   4. var. prolixus, Koch. Detroit River. Rare.
   6. graminus, Lin.
      P. graminus L. var. graminifolius Fries.
      Detroit River. The common form.
   7. var. heterophyllum (Schreb.) Fries.
      Detroit River, canals on Belle Isle. Not as common as the type.
   8. var. longipedunculatus (Merat.)
      P. heterophyllus var. longipedunculatus (Merat.) Morong, Mem. Tor.
   10. var. Richardsonii, A. Bennett. Detroit River. Rare.
   11. compressus, Lin.
   12. mucronatus, Schrad. Detroit River; in shallow places near shore of
      main land. Common.
   13. filiformis, Pers. Sandy shores of Belle Isle, in shallow water. Rare.
   14. pectinatus, Lin. With the last, but common.
FAMILY 4. NAIADACE.E. Naiad or Water Nymph Family.

4. NAIAS, Lin.
15. flexilis (Willd.) Rosk & Schmidt.
   Either slender and distantly branched, a foot or more long, or short
   (two or three inches) and bushy, rigid. Common on sandy shores of
   Belle Isle in shallow places.

FAMILY 5. ALISMACE.E. Water Plantain Family.

5. ALISMA, Lin.
16. Plantago aquatica, Lin., var. trivialis (Ph.)
   Leaves ovate or oval, large (5-6 inches long), obtuse, cordate, 7-9
   nerved. The American plant differs from the European in having
   longer, more slender pedicles and in having smaller flowers, which
   are white instead of pale rose.
   Old race-course. Frequent.
17. var. parviflora (Ph.)
   Leaves and flowers smaller; leaves abruptly acutish, 3-5 nerved, sub-
   cordate or obtuse at base. Vic. Linden Park. Frequent.

20. forma obtusa (Willd.) Britt. Belle Isle. Rare.
22. forma diversifolia (Engelm.) Britt. Belle Isle. Rare.
23. forma augustifolia (Engelm.) Britt. Belle Isle. Rare.
25. var. Engelmanni.
   S. heterophylla var. augustifolia Engelm, in A. Gr. Man. Ed. 5, 494:
   1867. Not S. augustifolia, Lindl. River shores of Belle Isle. Com-
   mon.
26. graminea, Mx. Shores of Belle Isle. Rare.

FAMILY 6. VALLISNERIACE.E. Tape Grass Family.

7. VALLISNERIA, Lin. Tape Grass.
8. PHILOTRIA, Raf.

FAMILY 7. GRAMINE.E. Grass Family.

29. furcatus, Muhl. Linden Park. Rare.
10. CHRYSOPOGON, Trin.
30. avenaceus (Mx.) Benth. Indian Grass. Linden Park. Rare.
11. SORGHUM, Moench. Broom corn.
   Frequent.
32. setaceum, Mx. Linden Park. Common.
34. humifusum (Pers.) Knuth. Belle Isle. Frequent.
37. var. purpureum, Ph. Belle Isle, waste places, etc.; the common form.
40. commutatum, Schnitz. Waste places, Detroit. Rare.
41. macro-carpon, Le Conte. Linden Park. Frequent.
43. pubescens, Lam. Belle Isle, etc. Frequent.
44. lanuginosum, Ell. Grassy places under trees on Belle Isle. Frequent.
46. liniarifolium, Scribn. Detroit. Frequent.
48. capillare, Lin. Belle Isle, etc. Common.
49. glauca (Lin.) Scribn. Belle Isle, etc. Common.
51. Italiana (Lin.) Scribn. Belle Isle. Rare.
53. tribuloides, Lin. Belle Isle, etc. Frequent.
54. aquatica, Lin. Marshy grounds, etc., Belle Isle. Frequent.
57. armundinacea, Lin. var. picta, Lin. The familiar ribbon grass of the garden is sometimes found in waste grounds.
60. sylvatica, Torrey. Frequent on the south shore of Belle Isle.
63. geniculatus, Lin., var. aristulatus (Mx.) Torr. Belle Isle shores, etc. Common.
64. neglectus, Nash. Drop-seed Grass. Sandy grounds near the Water Works. Rare.
65. cryptandrus (Torr) A. Gr. Rush Grass. Sandy shores at Detroit. Frequent.
23. CINNA, Lin. Reed Grass.

24. AGROSTIS, Lin. Fiorin.
   68. stolonifera, Lin.
    A. vulgaris With. Belle Isle, etc. Common.
   69. var. alba (Lin.) O. K. Belle Isle, etc. Common.
   70. var. coarctata (Ehrh.) Celak.
    Sides of gutters in Detroit. Rare.

25. CALAMAGROSTIS, Adans.

   73. sativa, Lin. Common Oat. Shores of Belle Isle, etc. Common.

27. DANTHONIA, DC. Oat Grass.

28. SPARTINA, Schreb.

29. ERAGROSTIS, Beauv.
   77. pilosa (Lin.) Beauv. Belle Isle. Frequent.
   78. Purshii, Schrad. Belle Isle and other places at Detroit. Frequent.
   79. major, Host. Belle Isle, etc. Common.
   80. hypnoides (Lam.) B. S. P. Near Linden Park, Detroit. Frequent.

30. EATONIA, Raf.
   81. Pennsylvanica (DC.) A. Gr. Belle Isle, etc. Common.

31. DACTYLIS, Lin.
   82. glomerata, Lin. Orchard Grass. Belle Isle, etc. Common.

32. POA, Lin. Meadow Grass.
   83. annua, Lin. Belle Isle, etc. Common.
   84. compressa, Lin. Belle Isle, etc. Common.

33. PANICULARIA, Fabr. Manna Grass.
   87. Canadensis (Mx.) O. K. Vic. Linden Park. Rare.
   88. nervata (Willd.) O. K. Belle Isle. Common.
   89. borealis, Nash. Belle Isle. Frequent.

34. FESTUCA, Lin. Fescue-grass.
   90. elatior, Lin. Belle Isle. Frequent.
   91. var. pratensis (Huds.) A. Gr. Various places in Detroit. Common.
   92. nutans, Willd. In woods on Belle Isle. Frequent.
35. BROMUS, Lin.
94. tectorum, Lin. Grassy sides of streets in Detroit. Frequent.
95. commutatus, Schrad.? Shores of Belle Isle. Rare.
   Cannot be B. racemosus to which this species is usually referred. Possibly it is B. arvensis: the spikes are softly pubescent.
96. hordeaceus, Lin. B. mollis, Lin. On sandy shores of Belle Isle. Rare.
97. secalinus, Lin. Belle Isle, etc. Common.
98. racemosus, Lin. Sandy shores of Belle Isle. Common.

36. LOLIUM, Lin. Ray or Rye Grass.
99. temulentum, Lin. Naturalized on Belle Isle, etc. Rare. Also cultivated.

37. AGROPYRON, J. Gärtn. Wheat Grass.
100. repens (Lin.) Beauv. Belle Isle. Frequent.
103. var. pilosum, Scrib. & Sm. Belle Isle, etc. Common.
104. forma stoloniferum. Spikelet not over 5-8 inch in length; empty glumes not more than a half the length of the spikelet; all the glumes cuspitate or with an awn equal to half their length. Culms rigidly erect, single; lower sheaths pubescent; leaves flat, smooth on the back, more or less scabrous or short strigose above. Grassy banks at Detroit. Frequent. No. 1634.
105. forma geniculatum. Spikes approaching those of A. Smithii; spikelets elongated, ¾ of an inch or more long, lowest remote, often an inch and a half apart, empty glumes cuspitate; flowering glumes acute, not awned. Culms geniculate, cespitose, forming mats 6 inches to a foot in diameter; leaves flat, scabrous above, smooth on the back; sheaths smooth equaling or exceeding the internodes. Sides of streets and ditches at Detroit. Frequent. No. 1635.

38. TRITICUM, Lin. Wheat.

110. cereale, Lin. Frequent on Belle Isle and on waste grounds at Detroit.

40. HORDEUM, Lin. Barley.

41. ELYMUS, Lin. Wild Rye.
112. striatus, Willd., var. villosus (Muhl.) A. Gr. Belle Isle. Frequent.
115. var. glaucifolius (Willd.) Torr. Near old Race-course at Detroit. Rare.

42. HYSTRIC, Møench. Bottle-brush Grass.
FAMILY 8. CYPERACEAE. Sedge Family.

43. CYPERUS, Lin.
   117. diandrus, Torr. Sandy shores of Belle Isle. Rare.
   118. rivularis, Kunth. Sandy shores of Belle Isle, etc. Common.
   120. strigosus, Lin. Belle Isle, etc. Common.
   122. var. robustior, Kunth. Belle Isle. Frequent.
   123. filiculmis, Vahl. Near Linden Park. Rare.

44. ELEOCHARIS, R. Br. Spike Rush.
   124. obtusa (Willd.) Schultes. Shores of Belle Isle, etc. Common.
   125. palustris (L.) R. & S. Sandy shores on Belle Isle. Frequent.
   126. var. glaucescens (Willd.) A. Gr. Belle Isle and elsewhere. Common.
   127. aecilius (Lin.) R. & S. Shores of Belle Isle. Frequent.

45. SCIRPUS, Lin. Bulrush.

46 ERIOPHORUM, Lin. Cotton Grass.
   132. lineatus (Mx.) Bth. & Hk. f. Belle Isle, etc. Common.
   134. var. atrocinetus (Fernald.) Scirpus atrocinetus, Fernald in Pro. Am. Ac. Arts & Sci., Vol. 34, No. 19, 502:1890. Similar to the var. Eriophorum (Mx.) Scirpus Eriophorum Mx. Fl. 1, 33:1803, but the sheaths of the involucral bracts, the scales and the wool are from black to drab instead of rust-colored. The species has all the spikelets sessile in glomerules of three or more and the sheaths of the involucral bracts intermediate between those of the two varieties. The two varieties have the spikelets clustered, but the lateral or outer ones are on more or less elongated pedicels.

47. RYNCHOSPORA, Vahl. Beaked rush.

48. CAREX, Lin. Sedge; Swamp grass.
   140. hystricinca, Muhl., var. Cooley, Dew. Low grassy shores of Belle Isle. Rare.
   142. squarrosa, Lin. Woods near old race-course. Rare.
   143. typhinoidea, Schwein. Vic. Linden Park. Rare.
   144. riparia, Curtis. Marshy grounds on Belle Isle. Frequent.
   145. lanuginosa, Mx. Borders of canals on Belle Isle. Frequent.
   146. filiformis, Lin. With the last but more common.
   147. fusca, All. Near Linden Park. Frequent.
   148. stricta, Lam. Shores of Belle Isle. Rare.
   149. Haydeni, Dewey. Shores of Belle Isle. Rare.
   150. gynandra, Schw. Linden Park. Frequent.
   151. flacca, Schreb. C. glauca Scop. Southern shores of Belle Isle. Rare.
152. virescens, Muhl. Linden Park. Frequent.
157. viridula, Mx. Shores of Belle Isle. Not common.
158. conoidea, Schk. Near Linden Park. Rare.
159. laxiflora, Lam. Borders of woods on Belle Isle. Rare.
160. var. blanda (Dew.) Boott. Roadsides on Belle Isle. Frequent.
162. tetanica, Schk. var. Woodii (Dew.) Bailey. Near Linden Park. Rare.
166. pedicellata (Dew.) Britt. In woods at Linden Park. Common.
168. pubescens, Muhl. In woods on Belle Isle. Frequent.
169. stipata, Muhl. Low grounds on Belle Isle. Not common.
170. alopecoidea, Tuckerm., var. sparsispicata, Dew. Linden Park. Rare.
171. vulpinoidea, Mx. In woods on Belle Isle. Common.
172. xanthocarpa, Bicknell. Near Linden Park. Rare.
173. rosea, Schk. Roadsides on Belle Isle. Frequent.
175. sparganioides, Muhl. Roadsides on Belle Isle. Common.
177. Muhlenbergii, Schk. Frequent on sterile grounds near Palmer Park; also Linden Park.
178. interior, Bailey. Marshy grounds on Belle Isle. Rare.
180. tribuloides, Wahl. Common on low grounds on Belle Isle.
181. var. moniliformis (Tuckerm.) Britt. With the species. Common.
185. var. mirabilis (Dew.) Tuckerm. With the species. Common.
186. var. ferruginea (A. Gr.) Bailey. Near the old race-course. Rare.
187. var. festucaeae (Willdd.) Tuckerm. With the species. Common.

Order 4. Araceae.


49. Arisema, Mart.
188. triphyllum (Lin.) Torr. Indian Turnip. Belle Isle woods and elsewhere. Rare.

50. Acorus, Lin.

Order 5. Xyridaceae.


51. Pontederia, Lin.


199. *Torreyi*, Coville. With the last but more common.


FAMILY 12. LILIACEÆ. Lily Family.

204. *sessiliflora*, Lin. With the last but more frequent.

55. *HEMEROCALLIS*, Lin. Day Lily.
205. *fulva*, Lin. Vacant lots, etc., Detroit. Rare.


208. *superbum*, Lin. With the last but rare.

209. *Gesneriana*, Lin. This and the Hyacinth apparently persist without cultivation at the upper end of the Island and in other parts of Detroit, i. e., on ballast grounds and vacant lots.

211. *abidum*, Nutt. With the last but not common.

212. *orientalis*, Lin.


63. *VAGNERA*, Adans.


65. *POLYGONATUM*, Hill. Solomon's Seal.

67. SMILAX, Lin. Sarsaparilla.

FAMILY 13. AMARYLLIDACE.E. Amaryllis Family.
68. NARCISSUS, Lin.
227. Poeticus, Lin.
228. bitlorus, Curt. These two species seem to persist along side of the avenues on Belle Isle and without cultivation in the woods at the upper end of Belle Isle.

69. HYPOXIS, Lin. Stargrass.
229. hirsuta (Lin.) Coville. On sparsely wooded dry soil on Belle Isle. Rare.

FAMILY 14. DIOSCOREACE.E. Yam Family.
70. DIOSCOREA.

FAMILY 15. IRIDACE.E. Iris Family.
71. IRIS, Lin.
231. versicolor, Lin. Marshy grounds Belle Isle. Frequent.
72. GEMMINGIA, Fabr.

73. SISYRINCHIUM, Lin. Blue-eyed Grass.
233. graminoides, Bicknell. In grassy places on Belle Isle and elsewhere. Frequent.
235. albidum, Raf. Common on Belle Isle and elsewhere.

ORDER 7. ORCHIDALES.

FAMILY 16. ORCHIDACE.E. Orchid Family.
74. PERULARIA, Lindl.
75. BLEPHARIGLOTIS, Raf.
238. lacera (Mx.) Orchis lacera Mx. Fl. Bor. Am. 2, 156: 1803. With the last. Frequent.
76. GYROSTACHYS, Pers.
77. LEPTORCHIS, Thouars.
241. Leselii (L.) McM. Moist banks at Detroit. Rare.
FARWELL ON THE FLORA OF DETROIT.

SUBCLASS 2. DICOTYLEDONES.

SERIES 1. CHORIPETALAE.

ORDER 8. SALICALES.

FAMILY 17. SALICACEAE. Willow Family.

78. POPULUS, Lin. Poplar.

79. SALIX. Willow.
   245. lucida, Muhl. On Belle Isle and elsewhere. Rare.
   246. fragilis, Lin. Northeast shores of Belle Isle. Rare.
   247. alba, Lin. var. vitellina (Lin.) Koch. On Belle Isle. Frequent.
   249. nigra, Marsh. On Belle Isle. Rare.
   250. sericea, Marsh. At Linden Park. Frequent.

ORDER 9. JUGLANDEAE.

FAMILY 18. JUGLANDACEAE. Walnut Family.

80. HICORIA, Raf. Hickory.
   260. minima (Marsh.) Britt. Bitter-nut.
   261. ovata (Mill.) Britton. Shell-bark.
   262. var. borealis (Ashe.)
   263. laciniososa (Mx.) Sarg. Shag-bark.
   264. alba (Lin.) Britt. Mocker-nut.
   265. glabra (Mill.) Britt. Pi-gnut.
   266. var. odorata (Marsh.) Sarg.

All these hickories are more or less common on Belle Isle. The seeds of all except H. minima and of H. glabra are edible. The fruit of H. borealis has a thick husk completely separating into four valves, a thin shell, and a sweet seed; the bark is shaggy; it therefore is a variety of H. ovata. It differs from the species in having a smaller fruit (not over one-half so large) and smaller, narrower leaflets, foliage resiniferous shining and drying black when young.

ORDER 10. FAGALES.

FAMILY 19. BETULACEAE. Birch Family.

81. BETULA, Lin.
FAMILY 20. CORYLACEÆ. Hazel-nut Family.

82. CARPINUS, Lin.

83. OSTRYA, Scop.
   269. Virginiana (Mill.) Koch. At places in Detroit. Rare.

84. CORYLUS, Lin.

FAMILY 21. CASTANEACEÆ. Oak Family.

85. FAGUS, Lin. Beech.

86. QUERCUS, Lin. Oak.
   276. macrocarpa, Mx. On Belle Isle. Frequent.
   277. platanoides (Lam.) Sudw. Belle Isle, etc. Common.

FAMILY 22. ULMACEÆ. Elm Family.

87. ULMUS, Lin.

FAMILY 23. LUPULACEÆ. Hop Family.

88. CANNABIS, Lin.
   279. sativa, Lin. Hemp. On ballast grounds, etc., Detroit. Rare.

FAMILY 24. URTICACEÆ. Nettle Family.

89. URTICA, Lin.
   280a. gracilis, Ait. Near water works. Rare.

90. URTICASTRUM, Fabr.

91. ADICEA, Raf.

FAMILY 25. SANTALACEÆ. Sandalwood Family.

92. COMANDRA, Nutt.

FAMILY 26. ARISTOLOCHIACEÆ. Birthwort Family.

93. ASARUM, Lin.
FAMILY 27. POLYGONACEAE. Buckwheat Family.

94. RUMEX, Lin. Dock.

95. FAGOPYRUM, Gärtn.
   288. Fagopyrum (Lin.) Karst. Buckwheat. Belle Isle, waste places, etc. Rare.

96. POLYGONUM, Lin.
   291. emersum (Mx.) Britton. With the last. Common.
   293. lapathifolium, Lin. Borders of canals on Belle Isle. Rare.
   294. var. incarnatum (Schmidt) Koch. Near water on Belle Isle. Rare.
   298. hydropiperoides, Mx. Waterpepper. Grassy shores on Belle Isle. Rare.
   301. punctatum, Ell. Shores of Belle Isle. Common.
   305. littorale, Link. With the last. Common.
   306. Rayi, Babington. Roadsides on Belle Isle, etc. Rare.
   307. erectum, Lin. Roadsides on Belle Isle, etc. Common.

Order 15. Chenopodiales.

FAMILY 28. CHENOPODIACEAE. Goosefoot Family.

97. CHENOPODIUM, Lin.
   312. viride, Lin. On Belle Isle and elsewhere. Common. Also a low prostrate, spreading form, forming a patch often three feet in diameter. Leaves under a half inch in length, not larger than those of Chenopodium vulvaria; linear.
   313. leptophyllum (Moq.) Nutt. (?) A plant with a general habit and aspect of this species but the leaves are destitute of mealiness underneath. Perhaps a form of C. viride. Waste places at Detroit. Rare.
   315. murale, Lin. Roadsides, etc., at Detroit. Frequent.
   316. hybridum, Lin. Waste places on Belle Isle, etc. Common.
   319. vulvaria, Lin. Waste grounds at Detroit. Rare.

98. BETA, Lin.
   321. hortensis, Lin. Garden Orache. With the last. Rare.
   323. hastata, Lin. With the last. Frequent.

100. **SALSOLA**, Lin.

**FAMILY 29. AMARANTHACEAE.** Amaranth Family.

101. **AMARANTHUS**, Lin.
   327. chlorostachys, Willd. On Belle Isle, etc. Frequent.
   328. paniculatus, Lin. Sandy shores of Belle Isle. Rare.
   331. deflexus, Lin. Ballast grounds at Detroit. Rare.

102. **ACNIDA**, Lin.
   332. tamariscina (Nutt.) Wood., var. prostata, Uline & Bray. Sandy shores of Belle Isle. Rare.

**FAMILY 30. PHYTOLACCACEAE.** Pokeweed Family.

103. **PHYTOLACCA**, Lin.

**FAMILY 31. AIZOACEAE.** Carpetweed Family.

104. **MOLLUGO**, Lin.

**FAMILY 32. PORTULACACEAE.** Purslane Family.

105. **CLAYTONIA**, Lin.

106. **PORTULACA**, Lin.
   337. grandiflora, Hook. Sun-plant. Waste grounds, etc., at Detroit. Rare.

**FAMILY 33. CARYOPHYLLACEAE.** Pink Family.

107. **AGROSTEMMA**, Lin.

108. **SILENE**, Lin.
   340. noctiflora, Lin. With the last. Frequent.


110. **SAPONARIA**, Lin.

111. **VACCARIA**, Lin.
112. DIANTHUS, Lin.

113. STELLARIA, Lin.
   346. media (Lin.) Cyr. Chickweed. Roadsides on Belle Isle, etc. Common.
   347. longifolia, Muhl. Stitchwort. Low grassy places, Belle Isle, etc. Frequent.

114. CERASTIUM, Lin.
   349. vulgatum, Lin. With the last, but common.

115. ARENARIA, Lin.

116. MOHRINGIA, Lin.
   352. lateriflora (Lin.) Fenzl. Sandwort. Shores of Belle Isle. Rare.

ORDER 16. RANALES.

FAMILY 34. NYMPHÆACEÆ. Waterlily Family.

117. NYMPHÆA, Lin.

118. NELUMBO, Adans.

FAMILY 35. RANUNCULACEÆ. Crowfoot Family.

119. HELLEBORUS, Lin.
   355. viridis, Lin. Hellebore. Sandy shores on Belle Isle. Rare.

120. ISOPYRUM, Lin.

121. NIGELLA, Lin.
   357. Damascena, Lin. Fennel Flower. In waste places, etc., at Detroit. Rare.

122. ACTÆA, Lin.
   359. alba (Lin.) Mill. With the last, but rare.

123. AQUILEGIA, Lin.

124. DELPHINIUM, Lin.
   362. Ajacis, Lin.
   These two species of Larkspur have escaped from cultivation and are occasionally found on waste grounds, etc.

125. ANEMONE, Lin. Wind-flower.
   365. Canadensis, Lin. With the last, but more common.
   366. quinquefolia, Lin. In open woods on Belle Isle, etc. Frequent.
126. **HEPATICA.** Scop.  
367. acuta (Ph.) Britt. Liverwort. In open woods on Belle Isle. Rare.

127. **SYNDESMON.** Hoffmseg.  
368. thalictroides (Lin.) Hoffmseg. Rue-Anemone. With the last. Rare.

128. **RANUNCULUS.** Lin.  
370. delphinifolius, Torr., var. terrestris (A. Gr.)  
373. acris, Lin. Linden Park. Rare.

129. **THALICTRUM.** Lin.  
379. purpurasecens, Lin. With the last. Common.

**FAMILY 36. BERBERIDACE.E. Barberry Family.**

130. **BERBERIS.** Lin.  
380. vulgaris, Lin. Barberry. Vacant lots, etc. Rare.

131. **JEFFERSONIA.** Bart.  

132. **PODOPHYLLUM.** Lin.  

**FAMILY 37. MENISPERMACE.E. Moonseed Family.**

133. **MENISPERMUM.** Lin.  

**FAMILY 38. MAGNOLIACE.E. Magnolia Family.**

134. **LIRIODENDRON.** Lin. Tulip Tree.  

**FAMILY 39. LAURACE.E. Laurel Family.**

135. **SASSAFRAS.** Ness. & Eberm.  

136. **BENZOIN.** Fabric.  

**Order 17. Papaverales.**

**FAMILY 40. FUMARIACE.E. Fumitory Family.**

1. c., quotes “Cucullaria, Juss.” as a synonym of this plant. It thus antedates Bikukulla, Adans by ten years. Moist open woods on Belle Isle. Common.
FAMILY 41. CRUCIFER.E. Mustard Family.

138. LEPIDIUM, Lin.
   388. campestre. Lin. Cress. On waste places on Belle Isle, etc. Rare.
   389. Virginicum, Linn. Peppergrass. Roadsides on Belle Isle, etc. Frequent.
   390. apetalum, Willd. With the last, but more common.

139. COCHLEARIA, Lin.

140. SISYMBRiUM, Lin.

141. SINAPIS, Lin.

142. BRASSICA, Lin.
   394. nigra (Lin.) Koch. Black Mustard. Rare.

143. DIPLOTAXYS, DC.

144. RAPHANUS, Lin. Radish.

145. BARBAREA, Ait. f.

146. RORIPA, Scop.
   403. hispida (Desv.) Britt. With the last. Common.

147. CARDAMINE, Lin.
   407. bulbosa (Sereb.) B. S. P. At Linden Park. Frequent.


   409. Bursa-Pastoris (Lin.) Britt. Roadsides, etc., on Belle Isle, etc. Common.

150. CAMELINA, Crantz.

151. SOPHIA, Adans. Tansy Mustard.
152. ARABIS, Lin.  
413. glabra (Lin.) Bernh. Tower Mustard. Unimproved property at Detroit. Frequent.

153. ERYSIMUM, Lin.  

154. ALYSSUM, Lin.  
415. alyssoides (Lin.) Gouan. Sweet alyssum. On the southeast shore of Belle Isle where it is quite frequent.

155. KONIGA, Adans.  
416. maritima (Lin.) R. Br. Waste place at Detroit. Frequent.

156. HESPERIS, Lin.  
417. matronalis, Lin. Dame’s Rocket. With the last. Frequent.

FAMILY 42. CAPPARIDACE.E. Caper Family.

157. CLEOME, Lin.  

158. POLANISIA, Raf.  
419. graveolens, Raf. Sandy places on Belle Isle. Frequent.

FAMILY 43. RESEDACE.E. Mignonette Family.

159. RESEDA, Lin.  
420. alba, Lin. On ballast grounds at Detroit. Rare.

Order 18. Rosales.

FAMILY 44. CRASSULACE.E. Orpine Family.

160. PENTHORUM, Lin.  

FAMILY 45. SAXIFRAGACE.E. Saxifrage Family.

161. HEUCHERA, Lin.  

162. MITELLA, Lin. Mitrewort.  

163. RIBES, Lin. Gooseberry, Currant.  
425. floridum, L’Her. Wild Black Currant. Both species are common in woods on Belle Isle.

FAMILY 46. HAMAMELIDACE.E. Witch Hazel Family.

164. HAMAMELIS, Lin.  

FAMILY 47. ROSACE.E. Rose Family.

165. SPIR., A. Lin. Meadow Sweet.  

166. PORTERANTHUS, Britt.  
   430. odoratus, Lin. Near Linden Park. Rare.
   432. neglectus, Peck. Dry woods on Belle Isle. Rare.
   436. hispidus, Lin. Low grounds at Linden Park. Frequent.

168. FRAGARIA, Lin. Strawberry.

169. POTENTILLA, Lin.
   440. argentea, Lin. Hoary Cinquefoil. Dry grounds at Linden Park. Rare.
   442. var. Norvegica (Lin.) O. A. F. Moist places on Belle Isle. Common. The type is the low, simple form of wet, grassy, meadows; the lower leaflets being broadly ovate or nearly round. The var. is the larger, coarser branched plant of drier situations; the leaflets are oblong-ovate or oblong-lanceolate.
   445. var. pumila (Poir.) Lehm. Sunburnt fields at Linden Park. Frequent.
   446. var. simplex (Mx.) T. & G. Moist grounds on Belle Isle. Frequent.

170. GEUM, Lin.
   450. strictum, Ait. Yellow Avens. Moist grounds at Linden Park. Frequent.

171. AGRIMONIA, Lin. Agrimony.
   451. hirsuta (Muhl.) Bicknell.
   452. mollis (T. & G.) Britton.
   453. parviflora, Ait. All common in moist or dry woods on Belle Isle.

172. Rosa, Lin.
   454. setigera, Mx. Prairie Rose.
   455. blanda, Ait. Meadow Rose.
   457. humillis, Marsh. Pasture Rose. All more or less frequent on banks, etc., on Belle Isle; the prairie rose is very common in moist woods.

173. MALUS, Mill. Apple.
   458. coronaria (Lin.) Mill. Crab Apple. Belle Isle woods, etc. Common.

174. ARONIA, Medic. Choke Cherry.
   459. arbutifolia (Lin.) Medic. Belle Isle thickets. Rare.
   460. nigra (Willd.) Britton. At Linden Park. Rare.

175. AMELANCHIER, Medic.
   461. Canadensis (Lin.) Medic.
   462. Botryapium (Lin. f.) DC. Known as Shad-bush, Sugar-plum, Sugar-pear. May-cherry, June-berry, service-berry. Both species are found on Belle Isle and elsewhere.
176. CRATAEGUS, Lin. Haw; Thorn Apple.
   463. Crataegus Lin. Belle Isle thickets, etc. Common.
   464. punctata, Jacq. With the preceding. Frequent.
   465. coerulea, Lin. Thickets on Belle Isle. Frequent.
   466. macracantha, Lodd. With the last. Rare.
   467. mollis (T. & G.) Scheele. Thickets on Belle Isle, etc. Common.
   468. tomentosa, Lin. With the last. Common.

177. PRUNUS, Lin. Plums and Cherries.

FAMILY 48. LEGUMINOSÆ. Pea Family.

178. BAPTISIA, Vent.
   473. tinctoria (Lin.) R. Br. Wild Indigo.
   474. leucantha, T. & G. These species of Wild Indigo are found near Linden Park; the first is rather common; the latter rare.

179. CROTALARIA, Lin.

180. LUPINUS, Lin.

181. MEDICAGO, Lin.
   480. denticulata, Willd. Ballast grounds. Rare.

182. MELILOTUS, Lam. Sweet Clover.

183. TRIFOLIUM, Lin. Clover.
   484. pratense, Lin. Red Clover. Grassy places on Belle Isle, etc. Common.
   486. repens, Lin. White Clover. Grassy places on Belle Isle, etc. Common.
   487. furcatum, Lindl.
   488. depauperatum, Desv. The last two species are waifs from the Pacific Coast.

184. AMORPHA, Lin.
   489. canescens, Pursh. Shoe Strings, Lead Plant. Near old race-course. Rare.

185. ROBINIA, Lin.
   490. viscosa, Vent. Locust. Detroit. Rare.

186. ASTRAGALUS, Lin.

   492. grandiflora (Walt.) O. K.
   493. paniculata (Lin.) O. K.
   494. Dillenii (Darl.) O. K.
   495. Canadense (Lin.) O. K. All these species of Tick-trefoil, except the last, which is scarce, are common in the woods on Belle Isle.
188. LESPEDEZA, Mx. Bush-Clover.
   496. frutescens (Lin.) Britton.
   497. hirta (Lin.) Ell.
   498. capitata, Mx. Near Linden Park the Bush Clovers are common, except the first, which is scarce.

189. VICIA, Lin. Vetch or Tare.
   500. sativa, Lin. Roadsides on Belle Isle. Rare.

190. LATHYRUS, Lin. Pea.
   502. myrtilifolius, Muhl. With the preceding, but scarce.

191. FALCATA, Gmel.
   503. comosa (Lin.) O. K. Moist thickets on Belle Isle. Common.

   504. polystachyus (Lin.) B. S. P. Thickets on Belle Isle. Rare.
   505. vulgaris, Lin., var. nana (Lin.) Steud. On ballast grounds and waste places. Rare.

193. STROPHOSTYLES, Ell.
   506. helvola (Lin.) Britt. In sandy places on Belle Isle and elsewhere. Frequent.

   507. dioica (Lin.) Koch. Belle Isle thickets. Rare.

195. GLEDITSIA, Lin.


FAMILY 49. GERANIACE.Æ.

196. GERANIUM, Lin.
   510. Carolianum, Lin. Frequent in shady places on Belle Isle, etc.
   511. Bicknellii, Britton. With the preceding, but more common.

FAMILY 50. OXALIDACE.Æ. Wood Sorrel Family.

197. OXALIS, Lin.

FAMILY 51. LINACE.Æ. Flax Family.

198. LINUM, Lin.
   514. humile, Mill. Roadsides on Belle Isle. Rare.

FAMILY 52. RUTACE.Æ. Rue Family.

199. ZANTHOXYLUM, Lin.

FAMILY 53. SIMARUBACE.Æ. Ailanthus Family.

200. AILANTHUS, Desf.
FAMILY 54. POLYGALACEÆ. Milkwort Family.

201. POLYGALA, Lin. Milkwort.
   519. var. sanguinea (Lin.) P. sanguinea Lin. Sp. Pl. 705: 1753. The type has the flowers greenish or white; the variety has the flowers rose-purple and is the common form.

FAMILY 55. EUPHORBIACEÆ. Spurge Family.

202. ACALYPHA, Lin.

203. RICINUS, Lin.

204. EUPHORBIA, Lin.
   524. hirsuta (Torry) Wiegand. Sandy or grassy places near Palmer Park, Belle Isle, etc. Rare.
   527. obtusata, Ph. Borders of woods on Belle Isle. Rare.
   528. platyphylla, Lin. Shores of Belle Isle. Rare.

Order 20. Sapindales.

FAMILY 56. ANACARDIACEÆ. Sumach Family.

205. RHUS, Lin. Sumach.
   531. hirta (Lin.) Sudw. Belle Isle. Frequent in thickets.
   534. var. pubescens (Mill.) Toxicodendron pubescens Mill. Dict. No. 2: 1868. Rhus Toxicodendron var. quercifolium Mx. Fl. Bor. Am. I. 183: 1803. This is a low shrub with extensively creeping under-ground stems which send up branches rarely over a foot in height; never climbing; leaflets oval, acute or acuminate and with a broadly or narrowly cuneate base; deeply 3 to 5 (generally 3) incised-lobed, often-times with one margin entire; lobes ovate, acute or acuminate, margins entire.

FAMILY 57. AQUIFOLIACEÆ. Holly Family.

206. ILESX, Lin.

FAMILY 58. CELASTRACEÆ. Staff-tree Family.

207. EUONYMUS, Lin.
   536. obovatus, Nutt. Strawberry bush. Moist thickets on Belle Isle. Rare.

208. CELASTRUS, Lin.
FAMILY 59. ACERACE.E. Maple Family.

209. ACER, Lin.
   539. saccharium, Lin. Silver maple. Low grounds. Rare.

FAMILY 60. BALSAMINACE.E. Jewel-weed Family.

210. IMPATIENS, Lin.


FAMILY 61. RHAMNACE.E. Buckthorn Family.

211. CEANOTHUS, Lin.

FAMILY 62. VITACE.E. Grape Family.

212. VITIS, Lin.

213. PARTHEXOCISSUS, Planch.
   544. quinquefolia (Lin.) Planch., var. lacinata, Planch. P. vitacea, (Knerr.)
   A. S. Hitchcock. Internodes of the stem and branches 2'-4' long; leaves glabrous, or sparingly short-pubescent; tendrils mostly without terminal adhering disks; aerial roots none. Moist grounds on Belle Isle. Frequent.
   545. var. hirsuta (Donn.) T. & G. Ex. Planch. Aerial roots numerous; high-climbing; internodes of the stem and branches 1/4 to 3/4 inch long; leaves pubescent on both sides, and pilose on the mid-vein underneath; tendrils none. Moist woods on Belle Isle. Frequent.

Order 22. Malvales.

FAMILY 63. TILIACE.E. Linden Family.

214. TILIA, Lin.

FAMILY 64. MALVACE.E. Mallow Family.

215. ALTH.ªEA, Lin.
   547. officinalis, Lin. Marshmallow. In waste places, etc. Frequent.

216. MALVA, Lin.
   549. crispa, Lin. Waste places, etc. Common.

217. ABUTILON, Gærtn.

218. HIBISCUS, Lin.

Order 23. Parietales.

FAMILY 65. HYPERICACE.E. St. John's-Wort Family.

219. ASCYRON, Lin.
   552. hypericoides, Lin. St. Andrew's Cross. Woods on Belle Isle. Rare.

553. prolificum, Lin. Sandy borders of woods on Belle Isle and elsewhere. Frequent.

554. perforatum, Lin. Waste places, Belle Isle, etc. Common.

555. maculatum, Walt., var. corymbosum (Muhl.)

H. corymbosum, Muhl. Ex. Willd. Sp. Pl. 3. 1457; 1803. Differing from the type in having less clasping leaves and styles only one-half as long (about equalling the length of the pod). Woods on Belle Isle. Common.


FAMILY 66. CISTACE.E. Rock Rose Family.

221. HELIANTHEMUM, Mx.

559. majus (Lin.) B. S. P. Frostweed. Near Palmer Park, etc. Common.

560. Canadense (Lin.) Mx. Linden Park. Rare.

222. LECHEA, Lin.


FAMILY 67. VIOLACE.E. Violet Family.

223. VIOLA, Lin. Violet, Pansy.

562. obliqua, Hill. Low grounds on Belle Isle, etc. Common.


564. ovata, Nutt. Belle Isle and near Palmer Park. Frequent.

565. emarginata (Nutt.) Le Conte. Near Palmer Park and Linden Park. Rare.

566. blanda, Willd. Shores of Belle Isle. Frequent.

567. var. amena (Le C.) B. S. P. Near Palmer Park. Frequent.

568. lanceolata, Lin. Woods on Belle Isle. Rare.

569. pubescens, Ait. Dry woods on Belle Isle, etc. Common.

570. var. eriocarpa (Schw.) Nutt. With the species. Common.


572. Labradorica, Schrank. Common in moist grounds on Belle Isle, etc.

573. rostrata, Ph. Rich woods near Palmer Park. Rare.


575. tenella, Muhl. With V. tricolor, but rare.

ORDER 24. MYTRALES.

FAMILY 68. LYTHRACE.E. Loosestrife Family.

224. LYTHRUM, Lin.


225. DECODON, J. F. Gmel.


FAMILY 69. ONAGRACE.E. Evening Primrose Family.

226. ISNARDIA, Lin.


227. LUDWIGIA, Lin.

579. polycarpa, Short and Peter. Frequent at Linden Park.

228. EPILOBIUM, Lin.

580. spicatum, Lam. Fireweed. Dry grounds on Belle Isle. Frequent.


582. adenocaulon, Haussk. With the preceding. Common.
229. CENOTHERA, Lin.
   584. laciniata, Hill. Waste places. Rare.

230. GAURA, Lin.

231. CIRC.EA, Lin.

FAMILY 70. HALORAGIDACE.E. Water Milfoil Family.

232. MYRIOPHYLLUM, Lin.
   587. verticillatum, Lin. Belle Isle canals. Frequent.

FAMILY 71. ARALIACE.E. Ginseng Family.

233. ARALIA, Lin.
   588. spinosa, Lin. Herenles Club. Rare.

234. PANAX, Lin.

FAMILY 72. UMBELLIFER.F. Carrot Family.

235. CORIANDRUM, Lin.

236. PASTINACA, Lin.

237. THASPIUM, Nutt.
   593. trifoliatum (L.) Britt., var. aurem (Nutt.) Britt. Golden Alexander.
        Belle Isle woods. Common.

238. SANICULA, Lin.

239. FENICULUM, Adans.
   597. Feniculum (L.) Karst. Fennel. Waste places and on Belle Isle
        Frequent.

240. PIMPINELLA, Lin.
   598. Anisum, Lin. Anise. On ballast grounds, etc. Rare.
   599. integerrima (L.) A. Gr. Belle Isle woods. Common.

241. WASHINGTONIA, Raf.
   600. Claytonia (Mx.) Britt. Sweet Cicely.
   601. longistyli (Torr.) Britt.
        Both are common in woods on Belle Isle.

242. CONIUM, Lin.

243. SIUM, Lin.
   603. cicutaefolium Gmel. Water Parsnip. Low shores on Belle Isle.
        Frequent.
244. ZIZIA, Koch.

245. CARUM, Lin.
   605. Copticum (L.) B. & Hk. f. Ajowan. Ballast grounds, etc. Rare.

246. CICUTA, Lin.
   607. maculata, Lin. Water Hemlock. Low grounds on Belle Isle. Rare.
   608. bulbifera, Lin. Shores of Belle Isle. Rare.
   Both species of Water Hemlock are poisonous and produce death when eaten.

247. DERINGA, Adans.

FAMILY 73. CORNACE.E. Dogwood Family.

248. CORNUS, Lin.
   611. asperifolia, Mx. Common on Belle Isle.
   612. candidissima, Mill. Common on Belle Isle.

SERIES 2. GAMOPETAL.E.

ORDER 26. ERICALES.

FAMILY 74. PYROLACE.E. Wintergreen Family.

249. PYROLA, Lin.
   613. elliptica, Nutt.
   614. rotundifolia, Lin. Both species near Linden Park. Rare.

FAMILY 75. ERICACE.E. Huckleberry Family.

250. GAYLUSSACIA, H. B. K.

251. VACCINIUM, Lin.
   616. corymbosum, L. var. amoenum (Ait.) A. Gr. Blueberry. With the preceding. Rare.

ORDER 27. PRIMULALES.

FAMILY 76. PRIMULACE.E. Primrose Family.

252. LYSIMACHIA, Lin.

253. STEIRONEMA, Raf.
   621. lanceolatum (Walt.) A. Gr. Near Linden Park. Frequent.
   622. quadrirorurn (Sims.) Hitchc. With the last. Common.

254. NAUMBURGIA, Møenh. Loosestrife.
   623. thyrsifolia (L.) Duby. Swampy shores of Belle Isle. Rare.

255. DODECATHEON, Lin.
FAMILY 77. OLEACE.E. Olive Family.

256. FRAXINUS, Lin.
   627. nigra, Marsh. Black Ash.
       More or less common on Belle Isle.

FAMILY 78. GENTIANACE.E. Gentian Family.

257. GENTIANA, Lin.
   630. Andrewsii, Griseb. With the preceding, but more common.

FAMILY 79. APOCYNACE.E. Dogbane Family.

258. APOCYNUM, Lin.
   632. var. incanum, A. DC.
   633. cannabinum, Lin. Canadian Hemp.
   634. var. glaberrimum, A. DC.
   635. var. hypericifolium (Ait.) A. Gr.
   636. var. pubescens (R. Br.) A. DC. All the various forms of Apocynum occur in moist or dry places, in thickets, on banks of streams, in sand or in hard dry clay. The bitter-root and its variety occur near Palmer Park; the type has the leaves smooth or nearly so underneath, but in the variety they are canescent. The Canadian Hemp and its first named variety are frequent on Belle Isle, and the other varieties near Linden Park.

FAMILY 80. ASCLEPIADACE.E. Milkweed Family.

259. ASCLEPIAS, Lin. Milkweeds.
   640. exaltata, Lin. A. phytoleacoides Ph. Roadsides on Belle Isle. Rare.

Order 29. POLEMONIALES.

FAMILY 81. CONVOLVULACE.E. Morning Glory.

260. IPOMEA, Lin.

261. CONVOLVULUS, Lin.

262. VOLVULUS, Medic.
   646. hederaceus (Wall.) O. K., var. pubescens (Lindl.) Calystegia pubescens Lindl. Journ. Hort. Soc. I. 70: 1846. A double-flowered variety of the East Indian V. hederaceus that has escaped from cultivation to waste places. The flower is composed of innumerable separate petals instead of a series of gamopetalous corollas. At a distance looks very much like a carnation.
263. CUSCUTA, Lin. Dodder.

647. Americana, Lin. C. Gronovii Willd. On Epilobii, Polygonii, etc., on Belle Isle. Common. The Linnean C. Americana was primarily founded upon the Gronovian plant and its habitat given as Virginia. The West Indian and South American plant was eliminated in 1818 by H. B. K. in Nova Genera et Species, etc., Vol. 3, 122, and described under the name of C. graveolens, under which name it should be known, allowing C. Americana to stand for the plant to which Linneaus intended it to apply.

FAMILY 82. POLEMONIACE.E. Phlox Family.

264. PHLOX, Lin.

649. subulata, Lin. Sandy shores of Belle Isle. Rare.

FAMILY 83. HYDROPHYLLACE.E. Water-leaf Family.

265. HYDROPHYLLUM, Lin.


FAMILY 84. BORRAGINACE.E. Borage Family.

266. CYNOGLOSSUM, Lin.


267. LAPPULA, Mench. Burseed.


268. PNEUMARIA, Hill. Lungwort.


269. MYOSOTIS, Lin. Forget-me-not.


270. LITHOSPERMUM, Lin.


FAMILY 85. VERBENACE.E. Vervain Family.

271. VERBENA, Lin.

659. hastata, Lin. The type of this species, the common blue vervain or wild hyssop, has the leaves 3-cleft at the base and is common in fields and waste places on Belle Isle and other places.
661. var. oblongifolia, Nutt. V. urticifolia riparia (Raf.) Britt. In waste places and quite frequent. A form with small flowers and filiform panicles, but the bluish corollas with purplish tubes and occasionally 3-cleft leaves proves it to be a form of V. hastata rather than of V. urticifolia.
661a. angustifolia, Mx. Shore of Belle Isle. Rare.

FAMILY 86. LABIAT.E. Mint Family.

272. TEUCRIUM, Lin.

273. SCUTELLARIA, Lin. Skullcap.
   663. lateriflora, Lin. Frequent in low moist or wet grounds on Belle Isle and elsewhere.

274. MARRUBIUM, Lin.

275. AGASTACHE, Clayton.

276. NEPETA, Lin.

277. PRUNELLA, Lin.
   668. vulgaris, Lin. Heal-all. Belle Isle woods, etc. Common.

278. LEONURUS, Lin.

279. LAMIUM, Lin.

280. STACHYS, Lin.

281. MONARDA, Lin.

282. BLEPHILIA, Raf.


284. CLINOPODIUM, Lin.


286. LYCOPUS, Lin.
   679. rubellus, Mœnch. Water Horehound. Frequent on Belle Isle and at Linden Park.

287. MENTHA, Lin.

288. COLLINSONIA, Lin.

FAMILY 87. SOLANACEÆ. Potato Family.

289. PHYSALODES, Bechm.

290. PHYSALIS. Ground Cherry.
   684. Philadelphica, Lam. Frequent on Belle Isle.
   685. heterophylla, Nees. Common at Linden Park.
   686. var. ambigua (A. Gr.) Rydb. Belle Isle. Rare.
291. **Solanum**, Lin.

292. **Atropa**, Lin.

293. **Lycoopersicon**, Mill. Tomato.

294. **Lycium**, Lin.

295. **Hyoscyamus**, Lin.

296. **Datura**, Lin.
697. Tatula, Lin. Thornapple. Both are common in waste places.

698. axillaris (Lam.) B. S. P. In waste places. Frequent.

FAMILY 88. SCROPHULARIACE.E. Figwort Family.

298. **Verbascum**, Lin.
700. Blattaria, Lin. Moth Mullein. Both species are common in fields and waste places on Belle Isle and other places.

299. **Linaria**, Mill.

300. **Chenorrhinum**, Lange.
702. minus (L.) Lange. Waste places. Rare.

301. **Antirrhinum**, Lin.

302. **Cheelone**, Lin.

303. **Penstemon**, Ait.
705. hirsutus (Lin.) Willd. Belle Isle thickets. Rare.

304. **Mimulus**, Lin.

305. **Illysanthes**, Raf.
708. attenuata (Muhl.) Small. Near Linden Park. Rare.

711. peregrina, Lin. Shores of Belle Isle, etc. Frequent.
307. GERARDIA, Lin.
    713. tenuifolia, Vahl. Fields on Belle Isle, etc. Common.
    714. forma albiflora, Britt. At Linden Park. Frequent.

308. CASTILLEJA, Mutis.
    715. coccinea (Lin.) Spreng. Indian Paint-brush. Frequent near Palmer Park.

309. PEDICULARIS, Lin.

310. MELAMPYRUM, Lin.

FAMILY 89. MARTYXIACE.E. Unicorn-plant Family.

311. MARTYXIA, Lin.

FAMILY 90. LENTIBULARIACE.E. Bladderwort Family.

312. UTRICULARIA, Lin.
    719. vulgaris, Lin. In canals on Belle Isle. Rare.

FAMILY 91. PHRYMACE.E. Lopseed Family.

313. PHRYMA, Lin.

ORDER 30. PLANTAGINALES.

FAMILY 92. PLANTAGINACE.E. Plantain Family.

    723. lanceolata, Lin. Waste places, Belle Isle, etc. Common.

ORDER 31. RUBIALES.

FAMILY 93. RUBIACE.E. Madder Family.

315. CEPHALANTHUS, Lin.
    724. occidentalis, Lin. Button-bush. Common in swampy places on Belle Isle, etc.

316. MITCHELLA, Lin.

    726. Aparine, Lin.
    727. lanceolatum, Torr.
    728. circæzans, Mx.
    729. triflorum, Lin.
    730. tinctorium, Lin.
    731. Claytonia, Mx. All the species of Galium, except G. lanceolatum, which is rare and found only at Linden Park, are more or less common in woods, fields, etc., on Belle Isle, and also in other places that are congenial to these plants.
FAMILY 94. CAPRIFOLIACE.E. Honeysuckle Family.

318. SAMBUCUS, Lin. Elder.
    733. pubens, Mx. With the other species, but rare.

319. VIBURNUM, Lin.

320. TRIOSTEUM, Lin.

321. LONICERA, Lin. Honeysuckle.
    738. glaucescens, Rydb.
    739. dioica, Lin. Both species are frequent near Palmer Park.

FAMILY 95. DIPSACACE.E. Teasel Family.

322. DIPSACUS, Lin.

ORDER 32. CAMPOLOLULAE.

FAMILY 96. CUCURBITACE.E. Gourd Family.

323. CUCURBITA, Lin. Squash.

324. CUCUMIS, Lin.

325. COLCYNTHIS, Tourn. ex. Quer.
    744. Citrullus (Lin.) O. K. Watermelon. These three gourds are frequently found upon ballast grounds and in waste places.

FAMILY 97. CAMPANULACE.E. Bellflower Family.

326. CAMPANULA, Lin.

327. SPECULARIA, Heist. ex. Fabr.
    746. perfoliata (Lin.) A. DC. Venus’ Looking-glass. Frequent in thickets on Belle Isle.

FAMILY 98. LOBELIACE.E. Lobelia Family.

328. LOBELIA, Lin.
    749. forma albiflora, Britt. With the species. Common.
    750. spicata, Lam. Near Linden Park. Frequent.
    751. var. hirtella, A. Gr. Near water works. Frequent.
    752. inflata, Lin. Indian Tobacco. Borders of woods on Belle Isle. Rare.

FAMILY 99. COMPOSIT.E. Composite Family.

329. VERONONIA, Schreb.
    754. gigantea (Walt.) Britt. Fireweed. Belle Isle. Rare.


   759. speciosa, Nutt. Near Linden Park. Rare.
   761. junea, Ait., var. scabrella (T. & G.) A. Gr. With the last. Rare.
   762. serotina, Ait. Low grounds near water works. Rare.
   763. var. gigantea (Ait.) A. Gr. With the last. Rare.
   767. graminifolia (Lin.) Ell. Belle Isle, etc. Common.

333. **ASTER**, Lin.
   768. cordifolius, Lin. Linden Park, Common.
   771. var. rosens (Desf.) A. Gr. Near the water works. Rare.
   772. oblongifolius, Nutt. (?) Near Linden Park. Frequent.
   773. amethystinus, Nutt. (?) Near the water works. Rare.
   774. punicus, Lin., var. incidulus, A. Gr. On Belle Isle. Frequent.
   775. var. firmus (Nees.) T. & G. Near Palmer Park. Frequent.
   777. var. levigatus, A. Gr. Belle Isle, etc. Frequent.
   780. salicifolius, Lam. Belle Isle. Frequent.
   784. ericoides, Lin. Near water works. Rare.
   785. var. platyphyllus, T. & G. Near water works. Frequent.
   788. var. grandis, Porter. Belle Isle. Rare.
   790. var. hirsuticaulis (Lindl.) Porter. Belle Isle. Rare.
   792. umbellatus, Mill. Near Linden Park. etc. Frequent.

   794. annuus (Lin.) Pers.
   795. ramosus (Walt.) B. S. P.
   796. Canadensis, Lin.
   797. divaricatus, Mx.

   With the exception of the last named, which is rare, and found only at Linden Park, the species of Erigeron are more or less common in fields and along roadsides, etc., on Belle Isle and the main land also.
335. ANTIENNARIA, Gaertn. Cudweed.
798. neodioiea, Greene, var. attenuata, Fernald. Near Linden Park. Rare.
799. neglecta, Greene. Common on Belle Isle and the main land also.
800. occidentalis, Greene. Linden Park and Palmer Park. Frequent.
801. fallax, Greene. Linden Park and Palmer Park. Frequent.
802. arnoglossa, Greene, var. ambiguens, Greene. Linden Park and Palmer Park. Frequent.

336. GNAPHALIUM, Lin.
804. uliginosum, Lin. On Belle Isle. Frequent.
805. purpureum, Lin. At Linden Park. Rare.

337. SILPHIUM, Lin.
806. laeiniatum, Lin. Rosinweed.
807. terebinthinaceum, Jacq.
Both species of Rosinweed are frequent near Linden Park.

338. AMBROSIA, Lin. Ragweed.
809. artemisiataefolia, Lin. Common on Belle Isle.

810. spinosum, Lin. Waste places. Rare.
811. strumarium, Lin. Waste places. also Belle Isle. Frequent.
813. var. echinatum (Murr.) A. Gr. Linden Park. Frequent.

340. HELIOPSIS, Pers.
814. scabra, Dun. Dry grounds on Belle Isle. Rare.

341. RUDBECKIA, Lin.

342. HELIANTHUS, Lin. Sun-flower.
818. giganteus, Lin. Belle Isle, etc. Common.
819. hirsutus, Raf. On main land. Rare.

343. COREOPSIS, Lin.

822. cernua, Lin. Common and variable, Belle Isle, etc.
824. connata, Muhl. Belle Isle, etc. Common and variable; leaves undivided, inequally-cut or serrate (the type); or pinnately three divided with the terminal division petioled,—
825. var. petiolata (Nutt.) B. petiolata Nutt. Jour. Acad. Philad. 7, 99:
826. in, var, anomala, the awns are upwardly barbed.
829. frondosa, Lin. Belle Isle, etc. Common.
831. trichosperma (Mx.) Britt, var. tenuifolia (A. Gr.) Britt. (?) A peculiar form found on Belle Isle. It has the outer linear involucre bracts twice longer than the inner and equal to the rays in length.
832. aristosa (Mx.) Britt. Belle Isle. Rare.
345. **HELENIUM**, Lin.  

346. **ACHILLEA**, Lin.  

347. **ANTHEMIS**, Lin.  

348. **CHrysanthemum**, Lin.  

349. **ACCHILEA**, Lin.  


351. **ARTEMISIA**, Lin.  

352. **SENECIO**, Lin.  
842. aureus, Lin. Life-root. In moist grounds on Belle Isle. Frequent.

353. **CALENDULA**, Lin.  

354. **CARDUUS**, Lin.  

355. **TARAXACUM**, Hall.  
848. discolor (Muhl.) Nutt. Field Thistle. Fields, etc. Frequent.

356. **ONOPORDON**, Lin.  

357. **CENTAUREA**, Lin.  

358. **CICHORIUM**, Lin.  
853. var. divaricatum, DC. Near water works. Frequent.

359. **ADOPOGON**, Neck.  

360. **TARAXACUM**, Hall.  
855. Taraxacum (Lin.) Karst. Dandelion. Fields on Belle Isle, etc. Common.
361. **CICERBITA, Wallr.** *Mulgedium* Cass.

856. **Floridana (Lin.) Wallr.** Borders of moist woods on Belle Isle. Rare.


362. **SOCHUS, Lin.**

859. **arvensis, Lin.** Sow Thistle. Ballast grounds, etc. Frequent.

860. **oleraceus, Lin.** Belle Isle, etc. Common in waste places.

861. **asper (Lin.) Hill.** Belle Isle, etc. Common in waste places.

363. **LACTUCA, Lin.** Lettuce.

862. **sativa, Lin.** Garden Lettuce. Occasionally a specimen of this species is found on the Island, also on the main land in waste places.

863. **Scariola, Lin.** Common in waste places, also Belle Isle.


865. **hirsuta, Muhl.** Near Linden Park. Frequent.

866. **sagittifolia, Ell.** Belle Isle. Common along the shores.

867. **pulchella (Ph.) DC.** Waste places. Rare.

364. **PRENANTHES, Lin.** Rattlesnake-root.


869. **alba, Lin.** Common on Belle Isle.

365. **HIERACIUM, Lin.**

870. **seabrum, Mx.** Hawkweed. Linden Park. Frequent.