

## ADDITIONS TO THE REVISED CATALOG OF OHIO VASCULAR PLANTS, V.<sup>1</sup>

JOHN H. SCHAFFNER

Since the last report on the additions to the Ohio State Herbarium, a great improvement has been made in the storing of both the Ohio plants and the collections of the General Herbarium. New steel cases have been obtained and it thus became possible to arrange the general collection in cases again. Most of this collection had been packed away in boxes ever since the Botany Department moved into the new Botany-Zoology building in the autumn of 1914, because there was no money available to buy herbarium cases.

During the past year several thousand specimens have again been mounted through the help of six students working under N. Y. A. The collection of mosses has been greatly improved and enlarged under the supervision of Mr. Richard T. Wareham, and a large number of specimens have also been added to the general fern collection. Our enthusiastic amateur botanists have contributed their usual large number of specimens. The rare ones and those which give important extensions of geographical range in the state are listed below together with their localities and the collector's names. Species and varieties new to the state list number 19 of which 6 are escapes from cultivation or accidental and 13 indigenous or of unknown origin. Some of the new records extend the known distribution range very decidedly, and raise puzzling questions as to how the plants came to be in the places where they are now growing. Apparently the most interesting of these is *Scirpus saximontanus* Fern. Collected by Bartley and Pontius in Pickaway County, heretofore not known east of the Black Hills and central Nebraska. *Echinodorus cordifolius* (L.) Griseb. and its variety *lanceolatus* (Engelm.) Mack & Bush, from Ross and Pickaway Counties respectively, are also far east of their supposed natural range. A card index showing distribution by counties of each species, represented in the State Herbarium, is being prepared and when all of the present 50,000 specimens have been mapped, the study of the geographic distribution of our Ohio plants will be great facilitated.

- 10.1. *Lygodium palmatum* (Bern.) Sw. Climbing fern. Isaak Walton League Farm, Waterloo Twp., Athens Co. About 5-6 miles from the Carbondale record. Walter P. Porter and P. S. Wamsley.
19. *Pellaea glabella* Mett. Northern Purple Cliff-brake. Sidney, Shelby Co. Joseph A. Clem.
- 42a. *Polystichum acrostichoides schweinitzii* (Beck.) Small. Berne Twp., Fairfield Co.; Laurel Twp., Hocking Co. Chas. R. Goslin.
46. *Woodsia obtusa* (Spreng.) Torr. Blunt-lobed Woodsia. Sidney, Shelby Co. Joseph A. Clem.
50. *Azolla caroliniana* Willd. Carolina Azolla. Little Cedar Point Marsh east of Toledo, Lucas Co. John J. Lynch.
55. *Equisetum kansanum* Schaffn. Kansas Scouring-rush. Deer Creek Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius. Three miles north of Clifton, in Clark Co. John H. Schaffner.

<sup>1</sup>Papers from the Department of Botany, The Ohio State University, No. 390.

- 71.1. *Abies balsamea* (L.) Mill. Balsam Fir. Escaped into Mitchells Mills Bog, Chardon Twp., Geauga Co. John W. Aldrich.
- 81.1. *Echinodorus cordifolius* (L.) Griseb. Upright Burhead. Liberty Twp., Ross Co. Floyd Bartley and Leslie L. Pontius.
- 81.1a. *Echinodorus cordifolius lanceolatus* (Engelm.) Mack & Bush. Circleville Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
82. *Lophotocarpus calycinus* (Engelm.) J. G. Smith. Large Lophotocarpus. Ross Co. Floyd Bartley and Leslie L. Pontius.
84. *Sagittaria cuneata* Sheldon. Arum-leaf Arrow-head. High banks along Deer Creek. Deer Creek Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
- 87.1. *Butomus umbellatus* L. Flowering-rush. Hatchery Bay, South Bass Island, Ottawa Co. L. H. Tiffany.
98. *Potamogeton epihydrus* Raf. Nuttall's Pondweed. Solon Bog. Portage Co. J. W. Aldrich.
- 101.1. *Potamogeton crispus* L. Curly Pondweed. Russell Twp., Geauga Co. Vernon Gifford.
115. *Nelumbo lutea* (Willd.) Pers. American Water-lotus. Liberty Twp., Ross Co. Leslie L. Pontius and Floyd Bartley.
- 144.1. *Scirpus georgianus* Harper. Georgia Bulrush. Rock Run, Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius.
- 145.2. *Scirpus occidentalis* (Wats.) Chase. Viscid Great Bulrush. Toussaint Marsh, Carroll, Ottawa Co. John J. Lynch.
- 150.1. *Scirpus saximontanus* Fern. George Hitler's pond, Circleville Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius. Specimen determined by M. L. Fernald.
156. *Eleocharis mutata* (L.) R. & S. Four-angled Spike-rush. Liberty Twp. Jackson Co. Floyd Bartley and Leslie L. Pontius.
167. *Dulichium arundinaceum* (L.) Britt. Dulichium. Buckeye Creek, Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius.
174. *Cyperus inflexus* Muhl. Awned Cyperus. Pickaway Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
226. *Carex incompta* Bickn. Prickly Bog Sedge. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
259. *Carex pedunculata* Muhl. Long-stalked Sedge. White's Gulch, Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
261. *Carex eburnea* Boott. Bristle-leaf Sedge. Dry limestone cliff. Brush Twp., Highland Co. Floyd Bartley and Leslie L. Pontius.
284. *Carex gracillima* Schw. Graceful Sedge. Cedar Swamp, Champaign Co. R. B. Gordon.
287. *Carex flexuosa* Muhl. Slender-stained Sedge. Washington Twp., Pickaway Co. Leslie L. Pontius and Floyd Bartley.
293. *Carex scabrata* Schw. Rough Sedge. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
320. *Carex intumescens* Rudge. Bladder Sedge, Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
- 333.1. Change name to *Bromus latiglumis* (Shear) Hitchc., and add, Huntington Twp., Gallia Co. Clyde H. Jones.
337. *Melica nitens* Nutt. Tall melic-grass. Highland Co. Floyd Bartley and Leslie L. Pontius.
353. *Uniola latifolia* Mx. Broad-leaf Spike-grass. Huntington Twp., Gallia Co. Clyde H. Jones.
369. *Eragrostis poaeoides* (L.) Beauv. Low Love-grass, Liberty Twp., Ross Co. Floyd Bartley and Leslie L. Pontius.
371. *Eragrostis pilosa* (L.) Beauv. Tufted Love-grass. Common in sidewalks between bricks. Columbus, Franklin Co. John H. Schaffner.
386. *Trisetum pennsylvanicum* (L.) Beauv. Marsh False-oats. In a bog, Whites Gulch, Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius.
- 444a. *Elymus virginicus submuticus* Hook. Empty glumes and lemmas awnless or nearly so. Pickaway Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
457. *Atheropogon curtispendus* (Mx.) Fourn. Tall Grama-grass. Apparently native, covering a hillside 1 mile southeast of New Moorefield, Clark Co. E. N. Transeau.

483. *Panicum polyanthes* Schultes. Many-flowered Panic-grass. Nile Twp., Scioto Co. F. B. Chapman.
- 505.2. *Paspalum pubiflorum glabrum* Vasey. Smooth-glumed Paspalum. Liberty Twp., Jackson Co. and Washington Twp., Pickaway Co. Leslie L. Pontius and Floyd Bartley.
508. *Paspalum setaceum* Mx. Slender Paspalum. Section 20, Hanover Twp., Butler Co. E. E. Good. Berne Twp., Fairfield Co. Chas. R. Goslin.
516. *Sorghastrum nutans* (L.) Nash. Indian-grass. Section 11, Reily Twp., Butler Co. E. E. Good.
526. *Lilium superbum* L. Turk's-cap Lily. Common in a field in Knox Co. Katie M. Roads.
586. *Heteranthera dubia* (Jacq.) MacM. Water-stargrass. Davenport Pond, Pickaway Co. Leslie L. Pontius and Floyd Bartley.
629. *Iris foliosa* Mack. & Bush. Leafy Blue-flag. Salt Creek Twp., Pickaway Co. Ruth Frances Morris.
631. *Iris germanica* L. Common Iris. Escaped along road. Cedarville Twp., Greene Co. John H. Schaffner.
659. *Ibidium beckii* (Lindl.) House. Little Lady's-tresses. Near Clover Hill Bog, N. Bloomfield Twp., Trumbull Co. R. E. Shanks.
675. *Hexalectris spicata* (Nutt.) Barnh. Crested Coral-root. Nile Twp., Scioto Co. F. B. Chapman.
700. *Helleborus viridis* L. Green Hellebore. Hocking Twp., Fairfield Co. Chas. R. Goslin.
707. *Delphinium exaltatum* Ait. Tall Larkspur. Deer Creek Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
727. *Thalictrum revolutum* DC. Waxy Meadow-rue. Friendship, Scioto Co. Julius B. Katz, F. B. Chapman, and R. B. Gordon.
764. *Alyssum alyssoides* L. Yellow Alyssum. Along interurban R. R. track. Urbana Twp., Champaign Co. John H. Schaffner.
774. *Neobeckia aquatica* (Eat.) Britt. Lake Water-cress. Pickaway Twp., Pickaway Co. Leslie L. Pontius and Floyd Bartley.
793. *Cheirinia inconspicua* (Wats.) Britt. Prairie Cheirinia. long interurban R. R. track. Urbana Twp., Champaign Co. John H. Schaffner.
843. *Polanisia graveolens* Raf. Clammy-weed. Many plants in waste ground. Columbus, Franklin Co. John H. Schaffner. Fairport Harbor, Lake Co. Very common. F. J. Tyler. Coshocton Co. Frank B. Selby.
860. *Oxalis rufo* Small. Red-leaf Wood-sorrel. Mesopotamia Twp., Trumbull Co. R. E. Shanks.
943. *Hypericum boreale* (Britt.) Bickn. Northern St. John's-wort. Odell Sanctuary, Nile Twp., Scioto Co. Floyd B. Chapman.
960. *Lechea leggettii* Britt. & Holl. Leggett's Pinweed. Braceville Ledge, Trumbull Co. A. N. Rood and R. E. Shanks.
966. *Viola hastata* Mx. Halberd-leaf Yellow Violet. Johnston Twp., Trumbull Co. R. E. Shanks.
987. *Viola fimbriatula* Sm. Ovate-leaf Violet. Vincent, Washington Co. C. F. Walker and J. W. Sites.
1006. *Cerastium viscosum* L. Mouse-ear Chickweed. In a vacant lot. Hillsboro, Highland Co. Katie M. Roads.
1088. *Trientalis americana* (Pers.) Pursh. Star-flower. Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius.
1103. *Pleuropterus zuccarinii* Small. Japanese Knotweed. "A large colony on railroad right of way." Blissfield, Coshocton Co. Frank B. Selby.
1139. *Potentilla pumila* Poir. Dwarf Five-finger. Henley, Scioto Co. Katie M. Roads.
1143. *Drymocallis agrimonioides* (Pursh) Rydb. Tall Cinquefoil. Colerain Twp., Ross Co. Floyd Bartley and Leslie L. Pontius.
1152. *Rubus neglectus* Peck. Purple Raspberry. S. W. Bloomfield, Trumbull Co. R. E. Shanks.
1167. *Spiraea prunifolia* Sieb. & Zucc. Bridal-wreath (*Spiraea*). In a pasture lot. North-western Adams Co. Katie M. Roads.
- 1178.2. *Rosa foetida persiana* Rehd. Persian Yellow Rose. From western Asia. Along the road, Jackson Twp., Highland Co. Katie M. Roads.
1188. *Prunus mahaleb* L. Mahaleb Cherry. Reily Twp., Butler Co. E. E. Good.

1189. *Prunus pennsylvanica* L. f. Red Cherry. Thompson's Ledge, Geauga Co. F. J. Tyler.
1228. *Crataegus phaenopyrum* (L. f.) Medic. Washington Hawthorn. Section 8, Reily Twp., Butler Co. E. E. Good.
1254. *Trifolium reflexum* L. Buffalo Clover. In dry woods. Liberty Twp. Jackson Co. Floyd Bartley and Leslie L. Pontius.
1264. *Robinia hispida* L. Rose Acacia. Jackson Twp. Jackson Co. Floyd Bartley and Leslie L. Pontius.
1282. *Meibomia marylandica* (L.) Ktz. Maryland Tick-trefoil. Friendship, Scioto Co. R. B. Gordon, J. S. Katz, and F. B. Chapman. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
1300. *Vicia cracca* L. Remove Lake and Franklin Cos. from distribution list and add Ashtabula.
- 1300.1. *Vicia dasycarpa* Ten. (*V. varia* Host.). Variegated Vetch. From Europe. Painesville, Lake Co. Coll., Otto Hacker in 1900. Columbus, Franklin Co. Coll., John Wolfe in 1931. Determined by N. C. Fassett.
1307. *Vicia angustifolia* L. Narrow-leaf Vetch. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
1314. *Lathyrus latifolius* L. Everlasting Pea. Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius.
1316. *Clitoria mariana* L. Butterfly-pea. White's Gulch, Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
1321. *Galacta volubilis* (L.) Britt. Downy Milk-pea. Nile Twp., Scioto Co. F. B. Chapman.
1322. *Phaseolus polystachyus* (L.) B. S. P. Wild Bean. Rock Run, Liberty Twp., Jackson Co. Floyd Bartley and Leslie L. Pontius. North Madison, Lake Co. Harry Crofoot.
1344. *Rotala ramosior* (L.) Koehne. Rotala. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
1347. *Lythrum salicaria* L. Spiked Loosestrife. On old prairie, three miles west of Marion, Marion Co. E. N. Transeau.
1352. *Rhamnus caroliniana* Walt. Carolina Buckthorn. Hobey Hollow, Nile Twp., Scioto Co. F. B. Chapman.
- 1359.1. *Vitis labruscana* Bail. Labruscan Vineyard Grape. In a sand dune near the lake beach. Ashtabula Co. Harry Crofoot and F. J. Tyler.
1421. Change name to *Quercus montana* Willd. Rock Chestnut Oak. *Q. prinus* L. is the true name of the Cow Oak not known to occur in Ohio.
- 1431.1. *Quercus borealis* Mx. f. Gray Oak. In recognizing this form of the red oak group, we have definite specimens from Perry and Madison, Lake Co., F. J. Tyler; along Black River, Lorain Co., F. O. Grover; Liberty Twp., Jackson Co., Floyd Bartley and Leslie L. Pontius; Friendship, Scioto Co., Delzie Demaree.
1432. Change name to *Quercus maxima* (Marsh.) Ashe. Common Red Oak. *Q. rubra* L. is the true name of the Spanish Red Oak, *Q. triloba* Mx.; thus No. 1429 becomes *Quercus rubra* L.
1519. *Circaea alpina* L. Small Enchanter's-nightshade. Liberty Twp., Jackson Co. Leslie L. Pontius and Floyd Bartley.
- 1525.1. *Cucurbita foetidissima* H. B. K. (*Pepo foetidissima* (H. B. K.) Britt. Wild Pumpkin. Accidental along R. R., growing for at least three years. From the west. Columbus, Franklin Co. Wendell Paddock.
1553. *Chimaphila umbellata* (L.) Nutt. Pipsissewa. N. W. Mesopotamia Twp., Trumbull Co. R. E. Shanks.
1655. *Gonolobus laevis* Mx. Sandvine. Along Tuscarawas River, Coshocton Co. Frank B. Selby.
1656. *Cynachium nigrum* (L.) Pers. Black Swallow-wort. Lake Co. Harry Crofoot.
1672. *Physalis pubescens* L. Low Hairy Ground-cherry. In a pasture lot. May Hill, Adams Co. Katie M. Roads.
- 1705.1. *Digitalis lanata* Ehrh. Woolly Foxglove. Near Circleville, Pickaway Co. Escaped from cultivation. From Europe. Ethel L. Boyer.
1729. *Veronica polita* Fries. Procumbent Speedwell. Athens, Athens Co. Walter P. Porter.
1751. *Thalesia uniflora* (L.) Britt. Naked Broom-rape. Sharon Twp., Franklin Co. John Wolfe and S. S. Humphrey.

- 1779.1. *Myosotis versicolor* (Pers.) J. E. Smith. Yellow-and-blue Forget-me-not. Kelley's Island, Erie Co. E. L. Moseley.
1816. *Mentha rotundifolia* (L.) Huds. Roundleaf Mint. Farmer's Station, Clinton Co. Katie M. Roads.
1909. *Thaspium pinnatifidum* (Buckl.) Gr. Cutleaf Meadow-parsnip. Chuckery, Madison Co. L. E. Hicks and E. S. Thomas.
1942. *Cynoxylon canadense* (L.) Dwarf Dogwood. Peat soil, swamp forest. South Bog, Burton, Geauga Co. J. W. Aldrich.
1968. *Sherardia arvensis* L. Blue Field-madder. Hirtland Hills, Lake Co. H. C. Beardslee and F. J. Tyler.
1978. *Viburnum molle* Mx. Soft-leaf Arrow-wood. Sect. 22, Reily Twp., Butler Co. E. E. Good.
- 2023.1. *Xanthium speciosum* Kearney. Great Cocklebur. Pickaway Twp., Pickaway Co. Floyd Bartley and Leslie L. Pontius.
- 2031.2. *Galinsoga ciliata* (Raf.) Blake. Ciliate Galinsoga. Specimens in the herbarium from Lake, Cuyahoga, Lorain, Erie, Columbiana, Jefferson, Belmont, Monroe, Athens, Meigs, Licking, Franklin, Montgomery, Highland, Scioto.
2032. *Galinsoga parviflora* Cav. Small-flowered Galinsoga. After segregating the two species recognized at present for our region, the only specimen in the state herbarium of this species is from Lake Co. Collected by Otto Hacker in 1902.
2050. *Helianthus instabilis* Wats. Unstable Sunflower. Richmond, north of Painesville, Lake Co. F. J. Tyler.
2078. *Bidens discoidea* (T. & G.) Britt. Small Beggar-ticks. Bradley Everett Bog, Burton, Geauga Co. John W. Aldrich.
2089. *Chrysogonum virginianum* L. Chrysogonum. In open oak-hickory woods, Dunham Twp., Washington Co. C. F. Walker and J. W. Sites.
- 2101.1. *Tagetes patula* L. French Marigold. Spontaneous in waste ground, north Columbus, Franklin Co. Cultivated from Mexico. John H. Schaffner.
2110. *Anaphalis margaritacea* (L.) Benth. & Hook. Pearly Everlasting, Madison, Lake Co. Harry Crofoot and F. J. Tyler.
2121. *Solidago hispida* Muhl. Hairy Goldenrod. Laurel Twp., Hocking Co. Chas. R. Goslin.
2148. *Aster schreberi* Nees. Schreber's Aster. Nile Twp., Scioto Co. F. B. Chapman.
2159. *Aster oblongifolius* Nutt. Aromatic Aster, Marshall Twp., Highland Co. Katie M. Roads.
2165. *Aster concinnus* Willd. Narrow-leaf Smooth Aster. Friendship, Scioto Co. R. B. Gordon, J. S. Katz, and F. B. Chapman.
2169. *Aster vimineus* Lam. Bloomfield Twp., Trumbull Co. R. E. Shanks.
2172. *Aster salicifolius* Lam. Willow Aster. Perry, Lake Co. F. J. Tyler.
- 2189.1. *Eupatorium album* L. White Thoroughwort. Nile Twp., Scioto Co. F. B. Chapman.

In 1931, just before publication of the Revised Catalog of Ohio Vascular Plants, Dr. M. L. Fernald, of the Gray Herbarium, studied our entire collection of Potamogeton, but because his general report had not been published when the Revised Catalog was placed in the hands of the printer a number of his conclusions could not be included. In July, 1932, Fernald published his monograph of "The Linear-Leaved North American Species of Potamogeton, Section Axillares." in Mem. Gray Herb. Harvard Univ. 3 : 1-183. Below is given a revision of some of the Ohio Potamogetons, agreeing with Fernald's determinations:

98. *Potamogeton epiphydrus* Raf. Ashtabula, Trumbull, Medina, Jackson.
- 98a. *Potamogeton epiphydrus nuttallii* (C. & S.). Fern. Doner's Lake, Wayne Co. A. D. Selby.
102. *Potamogeton foliosus* Raf. Leafy Pondweed. Ashtabula, Medina, Lorain, Erie, Auglaize, Champaign, Miami, Montgomery, Hamilton, Scioto, Jackson, Pickaway.

- 102a. *Potamogeton foliosus macellus*. Fern. Summit, Cuyahoga, Erie, Williams, Logan, Champaign, Licking, Fairfield.
103. Change name to *Potamogeton zosteriformis* Fern.
104. *Potamogeton hillii* Mor. Hill's Pondweed. Ottawa (Mosely Herb.), Portage (Webb Herb.).
- 104.1. *Potamogeton panormitanus* Biv. Auglaize, Ottawa (U. S. Natl. Herb.), Erie, Summit.
- 104.2. *Potamogeton strictifolius* Ar. Benn. Stiff-leaf Pondweed. Ottawa (U. S. Natl. Herb.).
105. *Potamogeton friesii* Rupr. Fries' Pondweed. Erie (Moseley and Deam Herbaria), Ottawa (U. S. Natl. Herb.).
107. *Potamogeton pusillus* L. Small Pondweed. Franklin, Ottawa (U. S. Natl. Herb.), Ashtabula.
-