

## ADDITIONS TO THE CATALOG OF OHIO VASCULAR PLANTS FOR 1922.\*

JOHN H. SCHAFFNER

*Department of Botany, Ohio State University*

Although the flora of Ohio is perhaps as well known as that of any of the States, except a few on the Atlantic border where botany has been studied longer and more intensively, there yet remains much to be done, both in determining the range of the species and the actual species present within our borders.

Below is a list of the more important additions contributed by various individuals. It is hoped that all interested in Ohio plants and in plant geography in general will continue to send specimens to the herbarium.

17. *Pteridium aquilinum* (L.) Kuhn. Change name to *Pteris aquilina* L. Eagle-fern.
  44. *Matteuccia struthiopteris* (L.) Todaro. Change name to *Pteretis nodulosa* (Mx.) Nieuwl. American Ostrich-fern. Our species is distinct from the European *Pteretis struthiopteris* (L.) Nieuwl.
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Below is a corrected list of the Ohio species of *Equisetum*.

50. *Equisetum hiemale* L. Omit from the list. This species is not known to occur east of the Rocky Mountains.
51. *Equisetum præaltum* Raf. Great Scouring-rush. General in the state and often abundant.
52. *Equisetum variegatum* Schleich. Variegated Scouring-rush. Ashtabula County.
- 52a. *Equisetum variegatum jesupi* A. A. Eat. (Probably *E. variegatum* X *E. præaltum*). Lake County.
53. *Equisetum lævigatum* A. Br. Smooth Scouring-rush. General but apparently not common.
- 53.1. *Equisetum kansanum* Schaffn. Kansas Scouring-rush. Wood, Erie, Lorain, Summit, Stark, Monroe.
- 53.2. *Equisetum palustre* L. Marsh Horsetail. Portage County

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\* Papers from the Department of Botany, Ohio State University. No. 139.

54. *Equisetum fluviatile* L. Water Horsetail. Not common but to be found in most parts of the state in suitable places.
55. *Equisetum silvaticum* L. Wood Horsetail. Cuyahoga, Geauga.
56. *Equisetum pratense* Ehrh. Omit from the list. Not known to occur in Ohio. If present, to be found in the extreme north-eastern section.
57. *Equisetum arvense* L. Field Horsetail. General and abundant.

The species should be arranged in the following order to be in the proper phyletic sequence: 53, 51, 52, 52a, 53.1, 54, 53.2, 55, 57.

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65. *Selaginella apus* (L.) Spring. Creeping Selaginella. At base of wet limestone cliff, Rocky Fork Creek, Highland Co. Caves, Highland Co. Mrs. Bayard Taylor.
71. *Pinus echinata* Mill. Short-leaf Yellow Pine. Colerain Twp., Northeastern Ross Co. "Sparsely distributed; confined to the sandstone hills of Harrison and Colerain Twps. in this county." Also in Springfield Twp., Gallia Co., and generally distributed in Green, Greenfield, Ohio, and Raccoon Twps. F. W. Dean. Correct the following mistake in note on distribution in 1921 "Additions." Read Northwestern Jackson County instead of Northeastern Jackson County.
72. *Thuja occidentalis* L. Arborvitæ. Reported to occur in a few isolated places along Brush Creek in Green Twp. and in the Gorge at Cedar Falls; in Jefferson Twp., Adams Co., by F. W. Dean.
108. *Brasenia schreberi* Gmel. Water-shield. Jackson Twp., Franklin Co., John H. Schaffner.
109. *Nelumbo lutea* (Willd.) Pers. American Water-lotus. Jackson Twp., Franklin Co. Robert B. Gordon.
133. *Wolffia columbiana* Karst. Columbia Wolffia. Jackson Twp., Franklin Co. Probably quite generally distributed in the state; our smallest flowering plant. John H. Schaffner.

- 216.1. *Carex suberecta* (Olney) Britt. Prairie Straw Sedge. Big Darby Creek, Franklin Co. Edward S. Thomas.
331. *Poa brachyphylla* Schult. Change name to *Poa cuspidata* Nutt. Cuspidate Spear-grass. Specimens collected two miles north of Steece, Lawrence County, by Chas. C. Deam, of Bluffton, Ind. Determined by Agnes Chase, of the U. S. National Herb. Specimens in Deam herbarium. Also in Ohio State University herbarium, specimens from Lawrence, Trumbull, Cuyahoga, Perry, Medina and Ottawa Counties.
366. *Secale cereale* L. Rye. "Persistent after cultivation and escaped to waste places." Hillsboro, Highland County. Katie M. Roads.
448. *Panicum boscii* Poir. Bosc's Panic-grass. Big Darby Creek, Franklin County. Edward S. Thomas.
465. *Holcus halapensis* L. Johnson-grass. Near Hillsboro, Highland County. "According to farmers, it is crowding out alfalfa in alfalfa fields." C. J. Willard. Also "Rather abundant in a pasture field," Berrysville, Highland County, Katie M. Roads.
483. *Allium vineale* L. Field Garlic. In a waste field, Columbus, Franklin County. John H. Schaffner.
488. *Ornithogalum umbellatum* L. Star-of-Bethlehem. Along a road in moist meadow. Bloom Twp., Fairfield County. John H. Schaffner. Also "very common in fields and waste places." Hillsboro, Highland County. Katie M. Roads.
528. *Pontederia cordata* L. Pickerel-weed. Jackson Twp., Franklin County. John H. Schaffner and Robert B. Gordon.
532. *Tradescantia pilosa* Lehm. Zigzag Spiderwort. "In yards and waste places," Hillsboro, Highland County. Katie M. Roads.
558. *Iris cristata* Ait. Crested Dwarf Iris. "Covered a hillside." Hillsboro, Highland County. Katie M. Roads.
604. *Magnolia tripetala* L. Umbrella Magnolia. About 6 miles N. W. of Jackson, Jackson County, headwaters of Pigeon Creek, Liberty Twp. "In bottom lands and lower slopes of deep ravines. The species is abundant with numerous fine specimens 35-40 ft. high and 4-5 in. in diameter." "Also in extreme upper

- edge of Eagle Township, Vinton County, nearly on the county line between Vinton and Hocking Counties, 4 miles north of Eagle Mills, along ravine near main stream of Salt Creek." F. W. Dean.
623. *Batrachium circinatum* (Sibth.) Rchb. Circinate White Water-crowfoot. Jackson Twp., Franklin County. John H. Schaffner.
629. *Aquilegia vulgaris* L. European Columbine. "Occasional in waste ground." Hillsboro, Highland County. Katie M. Roads.
641. *Viorna viorna* (L) Small. Leather-flower. Lucas Co., J. W. Hawkins; Coshocton Co., Everett Lowary. Reported by F. Detmers.
680. *Fumaria officinalis* L. Common Fumitory. "On the bank of a small pond." Hillsboro, Highland County. Katie M. Roads.
703. *Thlaspi arvense* L. Field Penny-cress. Union Twp., Highland County. Katie M. Roads.
712. *Norta altissima* (L.) Britt. Tall Hedge-mustard. "Introduced weed in pasture fields and lots." Hillsboro, Highland County, Katie M. Roads. Also Columbus, Franklin County, Robert B. Gordon.
715. *Hesperis matronalis* L. Dame's Rocket. "Occasional in woods and waste ground, Hillsboro, Highland County. Katie M. Roads.
718. *Barbarea stricta* Andrz. Erect Winter-cress. "Not common." Hillsboro, Highland County. Katie M. Roads.
719. *Barbarea verna* (Mill.) Aschers. Early Winter-cress. "Very abundant in grainfields and pasture land." Hillsboro, Highland County. Katie M. Roads.
747. *Brassica campestris* L. Common Turnip. "In a pasture lot." Hillsboro, Highland County. Katie M. Roads.
775. *Linum virginianum* L. Virginia Flax. "Dry woods." Washington Twp., Highland County. Katie M. Roads.
786. *Brassica juncea* (L.) Cosson. Indian Mustard. "In waste places." Union Twp., Highland County. Katie M. Roads.
796. *Mercurialis annua* L. Mercury. Columbus, Franklin County. John H. Schaffner.

- 803.1. *Tithymalus darlingtonii* (Gr.) Small. Darlington's Spurge. "Moist hillside." Hillsboro, Highland County. Katie M. Roads.
814. *Callitriche austini* Engelm. Terrestrial Water-starwort. Jackson Twp., Franklin County. In a moist pasture near pond. One of our smallest flowering plants. John H. Schaffner and Robert B. Gordon.
927. *Dianthus barbatus* L. Sweet-William. "Escaped from cultivation." Hillsboro, Highland County. Katie M. Roads. Also in waste pasture-land, north of Columbus, Franklin County, John H. Schaffner.
932. *Portulaca grandiflora* Hook. Garden Portulaca. Escaped. "In waste places," Hillsboro, Highland County. Katie M. Roads.
976. *Pleuropteris zuccarinii* Small. Japanese Knotweed. Zanesville, Muskingum County, F. M. Reed; Hillsboro, Highland County, Charles Johnston. Reported by F. Detmers.
1008. *Potentilla argentea* L. Silvery Cinquefoil. "Dry pasture land." North of Columbus, Franklin County. Robert B. Gordon.
1009. *Potentilla recta* L. Upright Cinquefoil. "Rather common in pasture lots." Hillsboro, Highland County. Katie M. Roads.
- 1022.1. *Rubus laciniatus* Willd. Cutleaf Blackberry. "A large patch in a pasture lot." Hillsboro, Highland County. "In several other places in the county." Katie M. Roads.
1082. *Cratægus phænopyrum* (L. f.). Medic. Washington Hawthorn. Dayton, Montgomery County. Wm. B. Werthner.
- 1160.1. *Lespedeza striata* (Thunb.) H. and A. Japan Bush-clover. Reported as escaped in pastures, South Bloomington, Hocking County. Homer C. Sampson. Probably quite common in the southern part of the state. From eastern Asia.
1269. *Quercus stellata* Wang. Post Oak. Jackson Twp., Franklin County. Rare locally. John H. Schaffner and Robert B. Gordon.
- 1271a. *Quercus imbricaria* x *velutina*. Lea's Oak. Dayton, Montgomery County. William B. Werthner.

1272. *Quercus marilandica* Muench. Black-Jack (Oak). Springfield Twp., Gallia County. "On poor clay ridge—in mixture with post and quercitron oaks and short-leaf pine." F. W. Dean.
1329. *Ribes odoratum* Wendl. Buffalo Currant. "Very common along fences and waste places." Hillsboro, Highland County. Katie M. Roads.
1380. *Anagalis arvensis* L. Scarlet Pimpernel. Jackson Twp., Franklin County. John H. Schaffner and Robert B. Gordon.
1400. *Andromeda polifolia* L. Wild Rosemary. Cranberry bog, Buckeye Lake, Licking County. Planted in the bog. F. Detmers.
1432. *Convolvulus spithameus* L. Upright Bindweed. Dry rocky soil, near Girl's Industrial School, Delaware County. John H. Schaffner.
1455. *Chionanthus virginica* L. Fringe-tree. Along Aaron Creek, two miles west of Arabia, Aid Twp., Lawrence County. "Growing in open field surrounded by old field type of Sassafras, sumac, persimmon, etc. Upper southwest slope." F. W. Dean.
1502. *Physalodes physalodes* (L.) Britt. Apple-of-Peru. "In a cultivated field." Hillsboro, Highland County. Katie M. Roads.
- 1537.1. *Veronica glandifera* Pennel. Glandular Speedwell. Reported for Ohio by F. W. Pennel; no specimens in the state herbarium. Collected at Oxford, Butler County, by Bruce Fink.
1540. *Veronica teucrium* L. Change name to *Veronica latifolia* L. Broad leaf Speedwell, of which it is a synonym.
1554. *Aureolaria laevigata* (Raf.) Raf. Entire-leaf False Foxglove. Dean Forest, Lawrence County. Reported by F. Detmers.
1580. *Martynia louisiana* Mill. Unicorn-plant. Alliance, Stark County, S. E. Nold; Marion, Marion County, M. C. Thomas; Uhrichsville, Tuscarawas County, W. L. Wilcoxon; Barberton, Summit County, L. S. Swigart. Reported by F. Detmers.

- 1605.1. *Borago officinalis* L. Borage. "Introduced in package of herb seed, from Chicago Seed House." In garden, Wooster, Wayne County. In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.
1610. *Verbena angustifolia* Mx. Narrow-leaf Vervain. "Very common in pastures." Hillsboro, Highland County, Katie M. Roads.
1612. *Lamium purpureum* L. Red Henbit. Hillsboro, Highland County. Katie M. Roads.
1661. *Perilla frutescens* (L.) Britt. Perilla. "An escape everywhere" around Hillsboro, Highland County. Katie M. Roads.
1696. *Plantago virginica* L. Dwarf Plantain. "Very common in pastures." Hillsboro, Highland County. Katie M. Roads.
1864. *Bidens laevis* (L.) B. S. P. Smooth Bur-marigold. Hillsboro, Highland County. Katie M. Roads.
- 1875a. *Galinsoga parviflora hispida* DC. Hairy Galinsoga. "A common weed in gardens and waste places." Hillsboro, Highland County. Katie M. Roads.
- 1882.1. *Chrysogonum virginianum* L. Chrysogonum. Waterford, Washington County, and Peninsula, Summit county. In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.
1888. *Boebera papposa* (Vent.) Rydb. Fetid Marigold. "Very abundant in a pasture." Hillsboro, Highland County. Katie M. Roads.
1889. *Inula helenium* L. Elecampane. "Rare along fence rows." Hillsboro, Highland County. Katie M. Roads.
1903. *Chrysopsis mariana* (L.) Nutt. Maryland Golden-aster. Dean Forest, Lawrence County. Reported by F. Detmers.
1988. *Elephantopus carolinianus* Willd. Carolina Elephant's-foot. Gallipolis, Gallia Co., C. A. Smith. In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.
- 2023.1. *Cirsium hillii* (Canby) Fernald. Hill's Thistle. In fields, Lisbon, Columbiana County. G. W. Armstrong. In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.

- 2026a. *Cirsium arvense integrifolium* Wimm. & Grab. "The smooth variety of Canada thistle, recognized by Gray, seems to be quite common for it has quite frequently been sent in to the Experiment Station. Differs from the typical Canada thistle not only in leaf characters but lacks the horizontal rhizome. Edison, Morrow County. W. J. Campbell; North Olmstead, Cuyahoga County, D. K. Huntington; Piqua, Miami County, Fred DeWees. These three counties indicate the scattered distribution of this interesting variety or form of the dreaded Canada thistle. Interesting because it is much more easily eradicated than the type." In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.
- 2030.1. *Centaurea solstitialis* L. Barnaby's Star-thistle. "Frequent in alfalfa fields." Van Wert, Van Wert County; Wauseon, Fulton County., R. A. Cave. Reported by F. Detmers.
2035. *Hypochaeris radicata* L. Long-rooted Cat's-ear. On lawn, Wooster, Wayne County. F. Detmers.
- 2035.1. *Picris echinoides* L. Bugloss Picris. Wheat field, Carrollton, Carroll County. Charles E. Capper. In herbarium of State Agr. Exp. Sta., Wooster. Reported by F. Detmers.

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