

## ADDITIONS TO THE CATALOG OF OHIO VASCULAR PLANTS FOR 1918.\*

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During the past year a number of botanists have made interesting collections of native and introduced plants, specimens of which have been placed in the State Herbarium. Strange plants continue to appear in Ohio from year to year and some of these will, without doubt, finally become a part of our normal flora. There are probably also quite a number of uncommon native plants which have not yet been reported and much work remains to be done before the geographical distribution of our indigenous species will become fairly well known. The natural geographic boundaries marked out by certain species will be of great value in delimiting the natural agricultural and horticultural areas of the state; so that, while individual observations may not in themselves be of great value, many observations over the entire state will eventually give us knowledge of great importance. It is hoped, therefore, that the botanists of the state will continue work along this line as in the past and send specimens of the unusual species to the State Herbarium as well as to herbaria that may exist in local institutions.

The Catalog of Ohio Vascular Plants was issued by the Ohio Biological Survey in March 1914, and during the five years since then additions and corrections have been published annually. Including the present list, 47 new species and varieties have been added, and authentic specimens have been secured of many plants on the original list which were not represented in the herbarium. It is especially desired that every species in the catalog be represented by at least one authentic specimen.

63. **Lycopodium complanatum** L. Trailing Club-moss. Beaver Tp, Noble County. S. C. Shuman.
156. **Eleocharis acuminata** (Muhl.) Nees. Flat-stemmed Spike-rush. Barnesville, Belmont County. Emma E. Laughlin.
170. **Scirpus planifolius** Muhl. Flat-leaf Club-rush. Lore City, Guernsey Co. Emma E. Laughlin.

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\*Papers from the Dept. of Botany, The Ohio State University, No. 105.

337. **Eragrostis purshii** Schrad. Pursh's Love-grass. General in Ohio.
340. **Eragrostis capillaris** (L.) Ness. Capillary Love-grass. Barnesville, Belmont Co. Emma E. Laughlin.
403. **Muhlenbergia umbrosa** Scribn. Wood Muhlenbergia. Fulton Co. R. A. Cave.
451. **Syntherisma filiforme** (L.) Nash. Slender Crab-grass. Columbus, Franklin Co. Freda Detmers.
- 454.1. **Echinochloa frumentacea** (Roxb.) Link. Billion-dollar-grass. Escaped. Barnesville, Belmont Co. Emma E. Laughlin.
474. **Yucca filamentosa** L. Adam's needle. Hillsboro, Highland Co. Katie M. Roads.
484. **Allium cepa** L. Common Onion. Persistent after cultivation. Hillsboro, Highland Co. Katie M. Roads.
489. **Muscari botryoides** (L.) Mill. Grape-hyacinth. Hillsboro, Highland Co. Katie M. Roads.
520. **Convallaria majalis** L. Lily-of-the-valley. Hillsboro, Highland Co. A common escape from cultivation. Katie M. Roads.
- 546.1. **Juncus brachycarpus** Engelm. Short-fruited Rush. Bethel, Clermont Co. E. Lucy Braun.
559. **Gemmingia chinensis** (L.) Ktz. Blackberry-lily. Hillsboro, Highland Co. Katie M. Roads.
595. **Liparis liliifolia** (L.) Rich. Large Twayblade. Beaver Tp., Noble Co. S. C. Shuman. Hillsboro, Highland Co. Katie M. Roads.
696. **Radicula sylvestris** (L.) Druce. Creeping Yellow-cress. Anderson's Ferry, Hamilton Co. E. Lucy Braun. Barnesville, Belmont Co. Emma E. Laughlin.
700. **Lepidium draba** L. Hoary Peppergrass. Fairview, Hamilton Co. E. Lucy Braun.
- 701.2. **Iberis umbellata** L. Common Candytuft. Escaped from cultivation. Hillsboro, Highland Co. Katie M. Roads.
702. **Carara didyma** (L.) Britt. Lesser Wart-cress. Barnesville, Belmont Co. Emma E. Laughlin.
705. **Alliaria alliaria** (L.) Britt. Garlic Mustard. Hartwell, Hamilton Co. E. Lucy Braun.
714. **Conringia orientalis** (L.) Dum. Hare's-ear Mustard. Madisonville, Hamilton Co. E. Lucy Braun.

743. **Sinapis alba** L. White Mustard. Hillsboro, Highland Co. Katie M. Roads.
749. **Brassica oleracea** L. Cabbage. Hillsboro, Highland Co. Katie M. Roads.
- 754.1. **Cleome serrulata** Pursh. Pink Cleome. Anderson's Ferry, Hamilton Co. E. Lucy Braun.
- 774.1. **Linum striatum** Walt. Ridged Flax. Bethel, Clermont Co. E. Lucy Braun.
- 779.1. **Impatiens balsamina** L. Garden Touch-me-not. Persistent after cultivation. Hillsboro, Highland Co. Katie M. Roads.
795. **Acalypha ostryaefolia** Ridd. Hornbeam Three-seeded Mercury. Miami, Clermont Co. E. Lucy Braun.
797. **Ricinus communis** L. Castor-oil-plant. Hillsboro, Highland Co. Katie M. Roads.
807. **Dichrophyllum marginatum** (Pursh.) K. & G. Snow-on-the-mountain. Hillsboro, Highland Co. Katie M. Roads.
869. **Viola tricolor** L. Garden Pansy. Escaped. Hillsboro, Highland Co. Katie M. Roads.
870. **Viola odorata** L. Sweet Violet. Hillsboro, Highland Co. Katie M. Roads.
912. **Silene latifolia** (Mill.) Britt & Rend. Bladder Campion. Barnesville, Belmont Co. Emma E. Laughlin.
923. **Vaccaria vaccaria** (L.) Britt. Cowherb. Barnesville, Belmont Co. Emma E. Laughlin.
935. **Mirabilis jalapa** L. Four-o'clock. Persistent after cultivation. Hillsboro, Highland Co. Katie M. Roads.
940. **Celosia cristata** L. Cock's-comb. Hillsboro, Highland Co. Katie M. Roads.
962. **Cycloloma atriplicifolium** (Spreng.) Coult. Tumbleweed. Barnesville, Belmont Co. Emma E. Laughlin.
963. **Kochia scoparia** (L.) Roth. Mock-cypress. Hillsboro, Highland Co. Katie M. Roads.
- 963.1. **Monolepis nuttalliana** (R. & S.) Greene. Monolepis. From the West. Barnesville, Belmont Co. Emma E. Laughlin.
966. **Salsola pestifer** Nels. Russian-thistle. Barnesville, Belmont Co. Also at Somerton, Belmont Co. Emma E. Laughlin.
984. **Persicaria muhlenbergii** (Wats.) Small. Swamp Persicaria. Addyston, Hamilton Co. E. Lucy Braun.

1037. **Spiraea tomentosa** L. Steeple-bush. Bethel, Clermont Co. E. Lucy Braun.
- 1070.1. **Crataegus intricata** Lange. Biltmore Hawthorne. Knox, Franklin. Both collected by W. A. Kellerman, 1897 and 1892 respectively. John H. Schaffner.
1071. **Crataegus straminea** Beadle. Allegheny Hawthorn. Omit Knox and Franklin counties from the distribution. The species is known from Hocking Co. only.
1091. **Prunus pumila** L. Sand Cherry. Terrace Park, Hamilton Co. E. Lucy Braun.
- 1131.1. **Robinia hispida** L. Rosa Acacia. Escaped. Hillsboro, Highland Co. Katie M. Roads.
1174. **Dolichos lablab** L. Hyacinth Bean. Hillsboro, Highland Co. Katie M. Roads.
1200. **Rhexia virginica** L. Virginia Meadow-beauty. Bethel, Clermont Co. E. Lucy Braun.
1214. **Ampelopsis cordata** Mx. Heartleaf Ampelopsis. Cleves, Hamilton Co. E. Lucy Braun.
1225. **Cardiospermum halicacabum** L. Balloon-vine. Hillsboro, Highland Co. Persistent after cultivation. Katie M. Roads.
- 1232a. **Acer rubrum viridum** Detmers. Cranberry Island, Buckeye Lake, Licking Co. Freda Detmers.
- 1232b. **Acer rubrum rubrocarpum** Detmers. Cranberry Island, Buckeye Lake, Licking Co. Freda Detmers.
1334. **Ludwigia polycarpa** S. & P. Many-fruited Ludwigia. Addyston, Hamilton Co. E. Lucy Braun.
1386. **Pyrola elliptica** Nutt. Shinleaf Wintergreen. Hillsboro, Highland Co. Katie M. Roads.
1427. **Ipomoea hederacea** Jacq. Ivyleaf Morning-glory. Barnesville, Belmont Co. Also in Washington Co. Emma E. Laughlin.
1430. **Quamoclit coccinea** (L.) Moench. Small Red Morning-glory. In waste places and along lanes. Hillsboro, Highland Co. Katie M. Roads.
- 1465.1. **Gentiana procera** Holm. Smaller Fringed Gentian. Big Darby Creek, near West Jefferson, Madison Co. Mrs. Bayard Taylor.
1467. **Gentiana saponaria** L. Soapwort Gentian. Bethel, Clermont Co. E. Lucy Braun.
1509. **Physalis pruinosa** L. Tall Hairy Ground-cherry. Hillsboro, Highland Co. Katie M. Roads.

- 1514.1. **Solanum triflorum** Nutt. Cutleaf Nightshade. From the West. Barnesville, Belmont Co. Emma E. Laughlin.
1515. **Solanum rostratum** Dun. Buffalo-bur. Barnesville, Belmont Co. Emma E. Laughlin.
1519. **Scrophularia leporella** Bickn. Hare Figwort. Barnesville, Belmont Co. Emma E. Laughlin.
- 1525.1. **Pentstemon grandiflorus** Nutt. Large-flowered Beard-tongue. Miami valley, near Miami, Hamilton Co. Collector, Louise G. Phillips. Specimen in the University of Cincinnati herbarium. Reported by E. Lucy Braun.
1565. **Antirrhinum majus** L. Great Snapdragon. An escape from cultivation. Hillsboro, Highland Co. Katie M. Roads.
1568. **Chaenorrhinum minus** (L.) Lange. Lesser Toadflax. Barnesville; Belmont Co. Emma E. Laughlin.
1571. **Cymbalaria cymbalaria** (L.) Wettst. Kenilworth Ivy. Hillsboro, Highland Co. Katie M. Roads.
- 1594.1. **Amsinckia lycopsioides** Lehm. Amsinckia. Adventive from California. Barnesville, Belmont Co. Emma E. Laughlin.
- 1595.1. **Myosotis scorpioides** L. True Forget-me-not. Escaped from cultivation. Hillsboro, Highland Co. Katie M. Roads.
1614. **Lippia lanceolata** Mx. Frog-fruit. Wills Creek, Kimbolton, Guernsey Co. Emma E. Laughlin.
- 1616.1. **Ajuga genevensis** L. Erect Bugle-weed. From Europe. Eden Park, Cincinnati, Hamilton Co. E. Lucy Braun.
1682. **Monarda didyma** L. American Beebalm. Hillsboro, Highland Co. Katie M. Roads.
1687. **Salvia lancifolia** Poir. Lanceleaf Sage. Barnesville, Belmont Co. Emma E. Laughlin.
1689. **Salvia officinalis** L. Common Sage. Hillsboro, Highland Co. Katie M. Roads.
- 1689.1. **Salvia splendens** Ker-Gawl. Scarlet Sage. Escaped from cultivation along an alley. Hillsboro, Highland Co. Katie M. Roads.
- 1725.1. **Apium graveolens** L. Celery. Persistent after cultivation. Hillsboro, Highland Co. Katie M. Roads.

1726. **Apium petroselinum** L. Parsley. Hillsboro, Highland Co. Katie M. Roads.
1759. **Spermacoe glabra** Mx. Smooth Buttonweed. Seven-mile, Hamilton Co. E. Lucy Braun.
1760. **Diodia teres** Walt. Rough Buttonweed. East Cleveland, Cuyahoga Co. Edo Claassen.
1795. **Lonicera sempervirens** L. Trumpet Honeysuckle. Escaped from cultivation. Hillsboro, Highland Co. Katie M. Roads.
- 1836a. **Rudbeckia laciniata** L. (Double form). Goldenglow. Escaped from cultivation. Hillsboro, Highland Co. Katie M. Roads.
1839. **Echinacea purpurea** (L.) Moench. Purple Cone-flower. Claysville, Guernsey Co. Emma E. Laughlin.
1843. **Helianthus maximiliani** Schrad. Maximilian's Sunflower. Madeira, Hamilton Co. E. Lucy Braun.
1856. **Helianthus petiolaris** Nutt. Prairie Sunflower. Barnesville, Belmont Co. Emma E. Laughlin.
- 1874.1. **Cosmos bipinnatus** Cav. Cosmos. Persistent after cultivation. Hillsboro, Highland Co. Katie M. Roads.
- 1887.1. **Tagetes erecta** L. Common Marigold. Escaped from cultivation. Hillsboro, Highland Co. Katie M. Roads.
1901. **Grindelia squarrosa** (Pursh.) Dun. Broad-leaf Gumplant. Zanesville, Muskingum Co. E. V. Walker.
1994. **Chrysanthemum parthenium** (L.) Pers. Common Feverfew. Hillsboro, Highland Co. Katie M. Roads.
2063. **Hieracium aurantiacum** L. Orange Hawkweed. Barnesvills, Belmont Co. Emma E. Laughlin.
2064. **Crepis capillaris** (L.) Wallr. Smooth Hawksbeard. Barnesville, Belmont Co. Emma E. Laughlin.