

FIFTY ADDITIONS TO THE CATALOGUE OF OHIO PLANTS.

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The plants listed below have been found growing in the State without cultivation. A large number of them are adventive species but not hitherto recorded in the Ohio list. Three of the names occurred in the old lists and were noted in the Catalogue of 1893 by Kellerman and Werner, but were discarded in the Fourth State Catalogue, published in 1899. These here referred to and which are below restored to the Ohio list, are Nos. 683 *a*, 1423 *b*, and 1990 $\frac{1}{2}$ *a*. No. 893 *a* was included in L. D. Stair's list of Railway Weeds. All the others are wholly new to the listed flora. While several persons have contributed to this increase, special thanks are due to Mr. Otto Hacker, who formerly as well as at present, contributed largely to a fuller knowledge of the State flora. Mr. Hacker has furnished specimens of all the species credited to him below and these are deposited in the State Herbarium. The rich field for adventive species in the region of Painesville may be understood when it is stated that the extensive and long-established nursery grounds of Storrs and Harrison are located at this place.

- 1 *a*. *Botrychium lunaria* (L.) Sw. Moonwort. Painesville, Lake Co. Otto Hacker.
- 201 *a*. *Apera spica-venti* (L.) Beauv. Silky Bent-grass. Wildstraw. Painesville, Lake Co. Otto Hacker.
- 201 *b*. *Aira caryophyllea* L. Silvery Hair-grass. Rarely escaped. Painesville, Lake Co. Otto Hacker.
- 253 *a*. *Festuca myuros* L. Rat's-tail Fescue-grass. Painesville, Lake Co. Otto Hacker.
- 272 *a*. *Hordeum sativum* Jessen. Common Barley. Occasionally escaped.
- 272 *b*. *Hordeum distichum* L. Two-rowed Barley. Rarely escaped. Painesville, Lake Co. Otto Hacker.
- 470 *a*. *Lemna cyclostasa* (Ell.) Chev. (*L. valdiviana* Phil.) Valdivia Duckweed. Richmond, Lake Co. Otto Hacker.
- 557 *a*. *Gemmingia chinensis* (L.) Kuntze. Blackberry Lily. Escaped. Franklin Co. J. H. Schaffner.
- 557 *b*. *Crocus vernus* All. Crocus. Escaped. Painesville, Lake Co. Otto Hacker.
- 568 *a*. *Linnorchis hyperborea* (L.) Rybd. (*Habenaria hyperborea* (L.) R. Br.) Canton. Mrs. Theano W. Case.
- 670 *a*. *Quercus alexanderi* Britton. Alexander's Oak. "Ohio;" N. L. Britton, Manual of Flora, 336. This was formerly confused with, or included in *Q. acuminata*, and like the latter is not uncommon in Ohio.
- 683 *a*. *Urtica urens* L. Small Nettle. Painesville, Lake Co. Otto Hacker.

- 754 *a.* *Acnida tamariscina prostrata* Uline and Bray. Painesville, Lake Co. Otto Hacker.
- 762 *a.* *Portulaca grandiflora* Hook. Garden Portulaca. Sun Plant. Escaped; Roadsides. St. Marys, Auglaize Co. A. Wetzstein.
- 775 *a.* *Lychnis vesicaria* L. *Lychnis*. Escaped. Painesville, Lake Co. Otto Hacker.
- 886 *a.* *Fumaria parviflora* Lam. Small Fumitory. Painesville, Lake Co. Otto Hacker.
- 893 *a.* *Sisymbrium altissimum* L. Tall *Sisymbrium*. L. D. Stair in List of Railroad Weeds. Painesville, Lake Co. Otto Hacker.
- 894 *a.* *Myagrurn perfoliatum* L. *Myagrurn*. Painesville, Lake Co. Otto Hacker.
- 921 *a.* *Camelina microcarpa* Andr. Small-fruited False-flax. Painesville, Lake Co. Otto Hacker.
- 984 *a.* *Rubus neglectus* Peck. Purple Wild Raspberry. Painesville, Lake Co. Otto Hacker.
- 985 *a.* *Rubus phoenicolasius* Maxim. Japan Wineberry. Escaped from cultivation; comes freely from seed, and propagates by tips. Painesville, Lake Co. Otto Hacker.
- 1004 *a.* *Potentilla pumila* Poir. Dwarf Five-finger. Painesville, Lake Co. Otto Hacker.
- 1026 *b.* *Sorbus aucuparia* L. European Mountain Ash. Escaped. Painesville, Lake Co. Otto Hacker.
- 1051 *a.* *Prunus mahaleb* L. Mahaleb. Perfumed Cherry. Columbus, Franklin Co. W. A. Kellarman. Painesville, Lake Co. Otto Hacker.
- 1054 *a.* *Acuan illinoensis* (Mx.) Kuntze. (*Desmanthus brachylobus* Benth.) Illinois Mimosa. New Richmond, Clermont Co. A. D. Selby.
- 1071 *a.* *Trifolium dubium* Sibth. Least Hop-Clover. Painesville, Lake Co. Otto Hacker.
- 1091 *a.* *Coronilla varia* L. *Coronilla*, Axseed, Axwort. Painesville, Lake Co. Otto Hacker.
- 1122 *a.* *Vicia augustifolia* Roth. Smaller Common Vetch. Painesville, Lake Co. Otto Hacker.
- 1171 *a.* *Euphorbia cuphosperma* (Englem.) Boiss. Warty Spurge. Painesville, Lake Co. Otto Hacker.
- 1195 *a.* *Euonymus europaeus* L. Spindle-tree. Escaped. Painesville, Lake Co. Otto Hacker.
- 1265 *a.* *Viola odorata* L. English or Sweet Violet. Escaped. Painesville, Lake Co. Otto Hacker.
- 1301 *b.* *Kneiffia linearis* (Mx.) Spach. Narrow-leaf Sundrops. Painesville, Lake Co. Otto Hacker.
- 1423 *b.* *Spigelia marylandica* L. Indian Pink or Carolina Pink. Fl. M. V. A. P. Morgan. North Madison, Lake Co. D. W. Talcott.
- 1502 *a.* *Asperugo procumbens* L. German Madwort. Catchweed. Painesville, Lake Co. Otto Hacker.

- 1534 *a.* *Scutellaria parvula ambigua* Fernald. "Ohio," Nuttall. Greene Co., E. L. Moseley; Montgomery Co., W. U. Young; Franklin Co., E. E. Bogue; Gallia Co., J. W. Davis.
- 1556 *a.* *Salvia lanceolata* Willd. Lance-leaf Sage. By roadside near Columbus. W. A. Kellerman.
- 1586 *a.* *Mentha longifolia* (L.) Huds. Horse Mint. Painesville, Lake Co. Otto Hacker.
- 1600 *a.* *Physalis francheti* Mast. Chinese Lantern Plant. Escaped. Painesville, Lake Co. D. W. Talcott.
- 1609½ *a.* *Datura metel* L. Entire-leaf Thorn-apple. Escaped. Painesville, Lake Co. Otto Hacker.
- 1611 *b.* *Kickxia spuria* (L.) Dumort. (*Elatinoides spuria* Wetzst.) Painesville, Lake Co. Otto Hacker.
- 1690 *a.* *Diodia teres* Walt. Rough Button-weed. Painesville, Lake Co. Otto Hacker.
- 1702 *a.* *Asperula hexaphylla* All. *Asperula*. Escaped. Painesville, Lake Co. Otto Hacker.
- 1712 *a.* *Viburnum lantana* L. Wayfaring Tree. Escaped. Painesville, Lake Co. Otto Hacker.
- 1732 *a.* *Valeriana officinalis* L. Garden Valerian. Escaped. Painesville, Lake Co. Otto Hacker.
- 1756 *a.* *Arnoseris minima* (L.) Dumort. Lamb Succory. Painesville, Lake Co. Otto Hacker.
- 1756 *b.* *Hypochaeris glabra* L. Smooth Cat's-ear. Painesville, Lake Co. Otto Hacker.
- 1766 *c.* *Lactuca virosa* L. Strong-scented Lettuce. Confused with *L. scariola* according to Britton, being the commoner of the two species. (A. D. Selby, Meeting Ohio Academy of Science, November, 1901.)
- 1775 *a.* *Hieracium pilosella* L. Mouse-ear Hawkweed. Painesville, Lake Co. Otto Hacker.
- 1990½ *a.* *Tanacetum vulgare crispum* DC. Tansy. Painesville, Lake Co. Otto Hacker.