

The Macoupin County, Illinois Plant Collections of Charles A. Robertson

*William E. McClain¹ and John E. Ebinger²

¹Botany, Illinois State Museum, Springfield, Illinois 62706

²Late Emeritus Professor of Botany, Department of Biological Sciences, Eastern Illinois University, Charleston, Illinois 61920

*Correspondence: wmcclain62@gmail.com

ABSTRACT

Seven hundred ninety-seven vascular plant specimens were collected by Charles A. Robertson in Macoupin County, Illinois from April 1880 to November 1910. The primary collecting years were 1882-84, with most collections made during the months of May through August. These specimens comprise 635 species representing 370 genera within 110 vascular plant families. The most represented families were the Asteraceae with 97 species, Poaceae with 63 species, and Cyperaceae with 40 species. Ninety-four species were wetland obligate plants thought to be collected from sloughs and shallow lakes along Macoupin Creek. Five state-endangered species, two-flowered melic grass (*Melica mutica* Walt.), Virginia bunchflower (*Melanthium virginicum* L.), prairie white-fringed orchid [*Platanthera leucophaea* (Nutt.) Lindl.], green trillium [*Trillium viride* Beck], and ground plum [*Astragalus crassicaarpus* Nutt. var. *trichocalyx* (Nutt.) Barneby], and two state-threatened species, buffalo clover (*Trifolium reflexum* L) and grass-leaved lily [*Stenanthium gramineum* (Ker) Morong.] are present in the collection. Sixty-one taxa are non-native species naturalized at the time of his survey. Most prairies, wetlands and forests have been disturbed or destroyed since Robertson's study, causing many plant species to decline or disappear from the county.

Keywords: *wetland obligate, lakes, endangered species, insects, bees*

INTRODUCTION

Charles A. Robertson of Carlinville, Illinois (b 12 June 1858, d 17 January 1935) was the son of Dr. William A. and Mrs. Nancy H. Robertson. He was educated in the Carlinville Schools and began studies at Blackburn College, then called Blackburn University, following graduation from high school. His knowledge of Greek and botany allowed him to teach these subjects at Blackburn from 1880 until 1886 when he took time off to pursue his special interest in bees. He took courses in botany at Harvard University during the summer of 1887 and a course in Hymenoptera (bees and wasps) at the University of Illinois in 1888 prior to returning to the chair of biology at Blackburn in 1897 where he remained until 1909 (Parks 1936).

We were unable to confirm that Robertson obtained a college degree. He is not included in the 1901-02 Blackburn College catalog that lists graduates for the years 1870 to 1899. This publication does name Robertson as the recipient of an honorary Ph. D. from Blackburn College which was awarded in 1901 (Blackburn College 1902). Although he apparently did not have a college degree, he was self-taught and highly disciplined with a tireless work ethic used to gain knowledge of plants and insects, especially bees. He was an accomplished linguist and was fluent in Greek, Latin, Italian, French, and German. His fluency in these languages allowed him to publish articles in European scientific journals (Parks 1936). His knowledge of Latin enabled him to describe new bee species found during field studies. He authored 139 scientific articles in American and European Journals during his career, but

Robertson is best known for his landmark study, *Flowers and Insects*, which documented the bee population within a ten-mile (16 km) radius of Carlinville (Robertson 1928).

His bee studies were preceded by the study and collection of a relatively large and diverse number of plant specimens from various habitats near Carlinville, Illinois. These collections were never organized into a list or published. Publication of his collections would make this resource available for those conducting studies on the interaction of bees with wildflowers, especially comparative surveys near the same locality. The purposes of this study were to develop a list of plant species collected by Robertson from Macoupin County, to recognize habitat types present at the time of his study, to describe landscape changes since the completion of his plant collecting, and to create awareness of the plant diversity present in Macoupin County prior to widescale landscape alteration in the nineteenth and early twentieth centuries.

STUDY SITE

Macoupin County in west-central Illinois has an area of 549,600 acres (222,415 ha) and lies within the Carlinville Section of the Western Forest-Prairie Division (Schwegman et. al. 1973). The original vegetation consisted of a mixture of forest and prairie, with forest occupying ridges, hillsides, portions of bottomlands, and dry, relatively flat uplands. Prairie was present in the northern and southern parts of the county and at locations along Macoupin Creek. Approximately 401,300 acres (162,400 ha) of prairie and 148,300 acres (60,015 ha) of forest were present in

Macoupin County in the early 1800s (Iverson et. al. 1989). Nearly all prairies and wetlands have since been converted to agriculture and the extent of forest vegetation has been reduced to about 85,000 acres (34,398 ha) since Robertson's study (Iverson et. al. 1989). The topography throughout the county varies from nearly level, poorly drained, former prairie sites in the north to dissected, rolling, forested hills in the south. Creek bottoms, especially those along Macoupin Creek, are wide, sometimes exceeding a mile (1.6 km). The climate is continental, with average temperatures of 31° F (-0.6° C) in winter and 75° F (24° C) during summer. The average growing season is 175 days while total annual precipitation is 38.6 inches (98.0 cm), most of which falls as rain from April through September (Tegeler 2004).

METHODS

A computer search of the Evers Herbarium at the University of Illinois at Champaign was completed to identify specimens from Macoupin County collected by Charles A. Robertson of Carlinville, Illinois. The specimens were divided into monocots and dicots and arranged alphabetically by families and species. Wetland obligate plants were recognized using the 2022 National Wetland Plant List (U. S. Army Corp of Engineers 2023) while state endangered/threatened species were identified using the checklist for endangered and threatened plants (Illinois Endangered Species Protection Board 2020). Nomenclature and non-native species identification follow Mohlenbrock (2014). Figwort (*Scrophularia nodosa* L.) follows Gleason & Cronquist (1991) because this taxon is not listed in Mohlenbrock (2014).

RESULTS

A total of 799 vascular plant specimens, including 637 species representing 372 genera within 110 vascular plant families, were collected by Robertson near Carlinville in Macoupin County, Illinois from 3 April 1880 to 10 October 1910. A total of 254 species present in this collection are listed in Robertson (1928). All specimens are located in the Evers Herbarium at the University of Illinois at Champaign. The most represented plant families were the Asteraceae with 97 specimens, the Poaceae with 63 specimens, and the Cyperaceae with 40 specimens. The years with the greatest number of collections were 1882 (268 specimens), 1883 (177 specimens), and 1884 (126 specimens). The months with the greatest number of collections were August (218), June (137), May (135), and July (124). Forty-four specimens did not cite a month or year of collection while 26 cited just the year.

Ninety-five species were wetland obligate plants (see Appendix). Included in this group were water lilies *Nelumbo lutea* (Willd.) Pers., *Nymphaea advena* (Ait.) Ait, *Nymphaea*

odorata Sol.), watershield, (*Brasenia schreberi* J. Gmel.), pondweeds (*Potamogeton* spp.), pickerel weed (*Pontederia cordata* L.), bur reed (*Sparganium eurycarpum* Engelm.) and the submerged aquatics bladderwort (*Utricularia macrorhiza* LeComte), Elodea [*Elodea nuttallii* (Planch.) St. John], coontail (*Ceratophyllum demersum* L.), and water milfoil (*Myriophyllum heterophyllum* Michx.). The collection of such a large number of wetland obligate species (14.8 % of the total number of species) suggests the presence of high-quality wetlands that supported emergent and submergent aquatic vegetation.

Five endangered and two threatened plant species currently listed in Illinois were collected by Robertson. The five endangered plants are two-flowered melic grass (*Melica mutica* Walt.), prairie white-fringed orchid [*Platanthera leucophaea* (Nutt.) Lindl.], ground plum [*Asrtragalus crassicaulis* Nutt. var. *trichocalyx* (Nutt.) Barneby], green trillium (*Trillium viride* Beck), and Virginia bunchflower (*Melanthium virginicum* L.). Buffalo clover (*Trifolium reflexum* L.) and grass-leaved lily [*Stenanthium gramineum* (Ker) Morong.] are state-threatened (Illinois Endangered Species Protection Board 2020).

Sixty-one specimens were non-native species present within the county at the time of his study. Among these specimens were species utilized for agricultural or domestic purposes, including buckwheat (*Fagopyrum esculentum* Moench), timothy (*Phleum pratense* L.), orchard grass (*Dactylis glomerata* L.), white and yellow sweet clovers [*Melilotus albus* Medic., *Melilotus officinalis* (L.) Pallas], red clover (*Trifolium pratense* L.), common flax (*Linum usitatissimum* L.), and horseradish [*Armoracia rusticana* (Lam.) Gaertn.]. No non-native invasive shrubs or trees were in the collection.

None of the specimen labels provided information on habitats. Carlinville, the likely center of the study area, is given as the collecting site for all but one specimen despite the likelihood of frequent visits by Robertson to well-known areas such as Bullard Lake, Beaver Dam Lake, Macoupin Creek, and Taggart Woods. The forty-six specimens lacking collecting dates are assumed to have been collected within the 1880 to 1890 time period. None of his specimens were in the Blackburn College Herbarium due to a disastrous fire in 1927 which destroyed a large portion of the biological collections (Carlinville Democrat 1927). This was followed by another fire in 1957 which destroyed the remaining specimens along with other biological records prepared or collected prior to 1927 (Emory 2019). Fortunately, a large number of Robertson's specimens from Macoupin County were located in the Evers Herbarium of the Illinois Natural History Survey at Champaign.

DISCUSSION

It is likely that Robertson began to survey the flora near Carlinville to learn the location and blooming times of plant species prior to his decades-long research on bee visitors to flowering plants. His collecting trips probably included visits to prairie remnants north and west of Carlinville and forests and wetlands east and south of town. Tracts of original prairie, forest, and wetlands remained at this time and excursions were made to locations having a diversity of plant species suitable for observing the interaction of bees with wildflowers.

It is not certain that all 61 non-native species listed in the Appendix had established naturalized populations within Macoupin County at the time of Robertson's survey. The lack of specific location data for specimens makes this determination difficult. This is especially so for plants like horseradish (*Armoracia rusticana* (Lam.) Gaertn., Mey, & Al-Shehbaz) and figwort (*Scrophularia nodosa* L.). Horseradish is commonly grown as a garden plant and figwort, a European species, has not been reported as adventive in Illinois (Mohlenbrock 2014). It is possible that Robertson grew some plants at his home where he observed visiting bees.

The large number of wetland obligate plant species suggests the presence of diverse, high-quality sloughs, ponds or lakes near Carlinville. Several Macoupin County histories mention lakes in the Macoupin Creek Bottoms having the names Long Lake, Rob Roy Lake, Bullard Lake, and Beaver Dam Lake (Frank & Ruyle 1979, Werner 1979). An 1875 map of Macoupin County shows three of these lakes along Macoupin Creek in Polk Township south of Carlinville: Beaver Dam (39.21050, -89.97223), Bullard Lake (39.214587, -90.012154), and an unnamed lake (39.202117, -90.029419, Warner & Beers 1875). It is likely that Robertson made regular trips to these areas. The only known locality for wooly pipevine (*Aristolochia tomentosa* Sims) near Carlinville is adjacent to a road in the Macoupin Creek Bottoms that leads to Bullard Lake. This plant was collected by Robertson on 19 May 1880 and 23 May 1883. A vigorous population of this plant persists in the Macoupin Creek Bottoms along the road to Bullard Lake. The collection of large ground plum (*Astragalus crassicaarpus* Nutt. var *trichocalyx* (Nutt.) Barneby) suggests Robertson's presence within the Macoupin Creek Bottoms because this plant is currently known only from dry, gravelly glacial drift hill prairies on the bluffs of this stream and its tributaries (McClain et al. 2002)

The lakes along Macoupin Creek were shallow and prone to drying in times of low precipitation. Beaver Dam Lake in Section 21 of Polk Township became a popular fishing and boating site that featured a hotel early in the 20th century.

The demand for recreational opportunities prompted the owners to construct a dam in the early 1900s to increase its size and depth to ensure boating and fishing throughout the year. Bullard Lake in section 20 (39.214587, -90.012154) became a popular waterfowl hunting site, also resulting in dam construction in the mid twentieth century to ensure the continuation of this sport in dry autumn months. The unnamed lake (39.202117, -90.029419) was drained in the 1900s for farming.

Plowing of upland prairies resulted in erosion and increased silt deposition throughout the Macoupin Creek Bottoms during annual floods. The silt increased the turbidity of the water and its deposition in the bottoms may have filled lakes and sloughs, greatly diminishing or eliminating wetland vegetation once prominent in these sites. The loss of wetlands, prairies and forests along with the exclusion of wildland fire had widespread negative impacts upon what was once a very diverse local flora (McClain & Ebinger 2023). Wetland plants, such as water lilies, disappeared from the county as did plants once found in prairies, such as white fringed orchid [*Platanthera leucophaea* (Nutt.) Lindl.]. Lance-leaved buckthorn (*Rhamnus lanceolata* Pursh.), a shrub then regarded as fairly common along the bluffs of Macoupin Creek, is currently known from only 13 sites in the state (Ebinger et al. 2020). Green trillium (*Trillium viride* Beck) and grass-leaved lily (*Stenanthium gramineum* (Ker) Morong.) of the forests, and buffalo clover (*Trifolium reflexum* L.) of dry, open woodlands are no longer known from the county.

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APPENDIX

List of vascular plant species collected in Macoupin County, Illinois from 3 April 1880 to 12 November 1890 by Charles A, Robertson. The collecting locality given for all but one specimen is Carlinville. Habitat information was not provided, and collecting dates were not given for 44 species. Each date and the use of "no date" represent a specimen. * = wetland obligate species, + = species included in Robertson (1928), # = non-native species

FERNS AND FERN ALLIES

Ophioglossaceae

Botrypus virginianus (L.) Michx., 19 May 1880, 23 May 1884.

MONOCOTS

Alismataceae

**Alisma subcordatum* Raf., 02 Aug 1883.

**Echinodorus berteroi* (Spreng.) Fassett, 02 Aug 1883.

**Sagittaria ambigua* J. G. Sm., 17 Aug 1883.

**Sagittaria brevirostra* Mack. & Bush., 29 Jul 1882.

**Sagittaria latifolia* Willd., 30 Aug 1884, 30 Aug 1884.

**Sagittaria rigida* Pursh., 19 Jul 1883, 02 Aug 1883.

Alliaceae

Allium canadense L., 19 Jun 1882, 28 May 1884.

Nothoscordum bivalve (L.) Britt., 30 Apr 1883.

Araceae

Arisaema triphyllum (L.) Schott., 01 Jun 1882.

**Peltandra virginica* (L.) Schott. & Endl., 12 Jul 1883, 01 Jul 1884.

Colchicaceae

+*Uvularia grandiflora* Sm., 30 Apr. 1883.

Commelineaceae

Tradescantia ohiensis Raf., 19 Jun 1882.

Cyperaceae

Carex albicans Willd., 30 Apr 1883.

Carex bicknellii Britt., 28 May 1883.

Carex bushii Mack., no date, 01 Jun 1882.

**Carex crinita* Lam., 31 May 1884.

Carex cristatella Britt., 11 Jun 1884.

**Carex crus-corvi* Shuttlw., no date.

Carex davisii Schwein. & Torr., no date, 28 May 1884.

**Carex emoryi* Dewey, 15 May 1883.

Carex grayi Carey, 28 May 1884.

Carex hirsutella Mack., 30 Jun 1883.

Carex jamesii Schwein., 17 May 1880.

**Carex lupuliformis* Sartw., 02 Aug 1883.

Carex lupulina Willd., 2 Aug 1883.

Carex meadii Dewey, 15 May 1883.

**Carex pellita* Willd., 15 May 1883.

Carex pensylvanica Lam., 03 Apr 1880.

Carex radiata (Wahl.) Small, no date, 23 May 1884.

Carex scoparia Schk., 31 May 1884.

Carex shortiana Dewey, 15 May 1883.

**Carex squarrosa* L., 02 Aug 1883.

**Carex stipitata* Muhl., 15 May 1883.

**Carex vesicaria* L. var. *monile* (Tuckerm.) Fern., 31 May 1884.

Carex vulpinoidea Michx., no date.

**Cyperus acuminatus* Torr. & Hook., 14 Aug 1880.

**Cyperus bipartitus* Torr., 24 Aug 1880.

**Cyperus erythrorhizos* Muhl., 30 Aug 1884.

Cyperus esculentus L. var. *leptostachyus* Boeckl., 13 Sep 1882.

Cyperus squarrosus L., 1 Jul 1882.

Cyperus strigosus L., 24 Aug 1880, 27 Aug 1884, 30 Aug 1884.

**Eleocharis acicularis* (L.) Roem. & Schultes, 27 Aug 1883.

Eleocharis compressa Sull., 28 May 1884.

Eleocharis engelmannii Steud., 24 Jun 1882, 24 Jun 1882.

Eleocharis erythropoda Steud., 31 May 1884.

Eleocharis macrostachya Britt., 27 Jun 1884.

Eleocharis verrucosa (Svenson) Harms, 28 May 1884.

Hemicarpha micrantha (Vahl) Pax., 24 Aug 1880.

**Schoenoplectus pungens* (Vahl) Palla., 24 Aug 1880.

**Scirpus atrovirens* Willd., 10 Jul 1882.

**Scirpus cyperinus* (L.) Kunth, 17 Aug 1883.

**Scirpus pendulus* Muhl., 09 Jun 1882, 19 Jun 1882.

Dioscoreaceae

Dioscorea villosa L., 16 Jun 1880, 25 Jun 1884.

Hyacinthaceae

+*Camassia scilloides* (Raf.) Cory, 15 May 1883.

Hydrocharitaceae

**Elodea nuttallii* (Planch.) St. John, 29 Aug 1883.

Hypoxidaceae

+*Hypoxis hirsuta* (L.) Coville, 11 May 1880.

Iridaceae

*+*Iris shrevei* Small, 21 May 1884.

+*Sisyrinchium angustifolium* Mill., 09 Jun 1882.

Juncaceae

Juncus brachycarpus Engelm., 19 Jun 1882.

**Juncus nodatus* Coville., 08 Jul 1883.

Juncus tenuis Willd., 01 Jun 1880.

Juncus torreyi Coville., 04 Jul 1883.

Lemnaceae

**Spirodela polyrhiza* (L.) Schleiden, 24 Aug 1880.

Liliaceae

+*Erythronium mesochoreum* Knerr., 12 Apr 1883, 03 Apr 1889.

Lilium michiganense Farw., 01 Jul 1884.

Lilium philadelphicum L. var. *andinum* (Nutt.) Ker, 27 Jun 1885, 27 Jun 1885.

Melanthiaceae

Melanthium virginicum L., no date.

+*Stenanthium gramineum* (Ker) Morong., no date.

Orchidaceae

Aplectrum hyemale (Willd.) Nutt., 23 May 1889.

**Cypripedium candidum* Willd., 20 May 1896.

Cypripedium parviflorum Salisb. var. *pubescens* (Willd.) O. W. Knight., 1886.

+*Galearis spectabilis* (L.) Raf., 19 May 1886.

+*Liparis lilifolia* (L.) Rich., 28 May 1888.

+*Platanthera leucophaea* (Nutt.) Lindl., no date.

Spiranthes lacera (Raf.) Raf., 02 Sep 1882.

Poaceae

Agrostis gigantea Roth, 22 May 1881.

Agrostis hyemalis (Walt.) BSP, 19 Jun 1882.

Alopecurus carolinianus Walt., 17 May 1880, 31 May 1884.

Andropogon gerardii Vitman., 21 Aug 1882.

Aristida dichotoma Michx., 18 Jul 1882.

Aristida longespica Poir., 24 Aug 1880.

Aristida oligantha Michx., 09 Aug 1882.

Aristida ramosissima Engelm., no date.

Bromus ciliatus L., no date, 23 Jun 1882.

Bromus pubescens Muhl., no date, 17 Aug 1883.

**Calamagrostis canadensis* (Michx.) P. Beauv., 8 Jul 1883, 11 Jun 1884.

Cenchrus longispinus (Hack.) Fern., 31 Aug 1881.

Chasmanthium latifolium (Michx.) Yates, 24 Aug 1880.

Cinna arundinacea L., no date.

#*Dactylis glomerata* L., 19 May 1883.

Danthonia spicata (L.) Roem. & Schultes, 1881.

Diarrhena obovata (Gl.) Brandenburg, 16 Aug 1880.

Dicanthelium clandestinum (L.) Gould, 14 Aug 1880.

Dicanthelium dichotomum (L.) Gould, 16 Aug 1880, 18 Aug 1882.

Dicanthelium implicatum (Scribn.) Kerguelen, 29 Jul 1883.
Dichanthelium latifolium (L.) Gould & Clark, 21 Jun 1884.
Dicanthelium oligosanthes (Schult.) Gould, 31 May 1884.
#*Digitaria sanguinalis* (L.) Scop., 10 Aug 1880.
#*Echinochloa crus-galli* (L.) P. Beauv., 10 Aug 1880.
#*Eleusine indica* (L.) Gaertn., 1881.
Elymus canadensis L., 09 Aug 1882, 10 Aug 1882.
Elymus hystrix L., 12 Aug 1880.
Eragrostis capillaris (L.) Nees, 07 Aug 1882.
#*Eragrostis cilianensis* (Ait.) Vign., 1881.
Eragrostis frankii C. A. Meyer, 12 Aug 1880.
**Eragrostis hypnoides* (Lam.) BSP., 24 Aug 1880.
Eragrostis pectinacea (Michx.) Nees, 31 Jul 1883.
Eragrostis spectabilis (Pursh.) Steud., 13 Sep 1882.
Festuca subverticillata (Pers.) E. B. Alexeev., 23 Jun 1882, 02 Aug 1883, 28 May 1884.
**Glyceria septentrionalis* Hitchc., 19 Jul 1883.
**Glyceria striata* (Lam.) Hitchc., 19 Jun 1882.
Hordeum jubatum L., 05 Jun 1885.
Hordeum pusillum Nutt., 09 Jun 1882.
Koeleria macrantha (Ledeb.) Spreng., 11 Jun 1884.
**Leersia oryzoides* (L.) Swartz., 18 Aug 1880.
Leersia virginica Willd., 29 Aug 1882.
Leptochloa fascicularis (Lam.) Gray, 10 Jul 1882.
Melica mutica Walt., no date.
Muhlenbergii schreberi J. F. Gmel., 21 Aug 1882.
Panicum capillare L., 10 Aug 1880.
Panicum dichotomiflorum Michx., 1 Aug 1880, 18 Aug 1882.
+*Panicum virgatum* L., 29 Jul 1882.
Paspalum setaceum Michx. var. *muhlenbergii* (Nash) D. J. Banks, 1881.
#*Phalaris canariensis* L., 25 Jul 1883.
#*Phleum pratense* L., 23 Jun 1882.
#*Poa annua* L., 11 Jun 1883.
#*Poa compressa* L., 11 Jun 1883.
#+*Poa pratensis* L., 11 Jun 1883.
Schizachyrium scoparium (Michx.) Nash, 24 Aug 1880.
Setaria pumila (Poir.) Roem. & Schultes, 1881.
#*Setaria viridis* (L.) P. Beauv., 04 Aug 1882.
Sorghastrum nutans (L.) Nash, 24 Aug 1880.

Spartina pectinata Link, 29 Jul 1882.
Sphenopholis obtusata (Michx.) Scribn., 13 Jun 1883, 28 May 1884, 06 Jun 1884.
Sporobolus compositus (Poir.) Merr., 10 Sep 1882.
Sporobolus vaginiflorus (Torr.) A. Wood, 13 Sep 1882.
Tridens flavus (L.) Hitchc., 14 Aug 1880.
Tripsacum dactyloides (L.) L. 12 Jul 1883, 11 Jul 1884.
Vulpia octoflora (Walt.) Rydb. var. *octoflora*, no date, 22 May 1883.

Pontederiaceae

**Pontederia cordata* L., 01 Jul 1884, 01 Jul 1884, 01 Jul 1884, 30 Aug 1884.

Potamogetonaceae

**Potamogeton diversifolius* Raf., no date, 12 Jul 1883, 17 Aug 1883.

**Potamogeton foliosus* Raf., 17 Aug 1883.

**Potamogeton illinoensis* Morong., 12 Jul 1883, 11 Jul 1884, 11 Jul 1884.

**Potamogeton nodosus* Poir., 12 Jul 1883.

Ruscaceae

Maianthemum canadense Desf., 23 May 1884.

+*Polygonatum biflorum* (Walt.) Ell., 25 Jun 1884.

Smilacaceae

Smilax lasioneuron Hook., 25 Jun 1884, 25 Jun 1884.

Smilax tamnoides L., 23 May 1884, 03 Jun 1888, 03 Jun 1888.

Sparganiaceae

**Sparganium eurycarpum* Engelm., 31 May 1884.

Trilliaceae

Trillium recurvatum Beck, 23 Apr 1880, 27 Apr 1883.

Trillium viride Beck, no date, no date.

Typhaceae

**Typha latifolia* L., 25 Jun 1884.

DICOTS

Acanthaceae

**Justicia americana* (L.) Vahl., 23 Aug 1882.

Ruellia humilis Nutt., 14 Jul 1882.

+*Ruellia strepens* L., 19 Jun 1882.

Aceraceae

+*Acer negundo* L., 17 May 1880, 10 Aug 1883, 31 Aug 1883.

+*Acer saccharinum* L., 17 Mar 1883.

Amaranthaceae

Amaranthus albus L., 02 Sep 1882.

#*Amaranthus hybridus* L., 09 Sep 1882, 10 Nov 1882.

#+*Amaranthus spinosus* L., 13 Sep 1882.

**Amaranthus tuberculatus* (Moq.) Sauer, 30 Sep 1882.

Annonaceae

+*Asimina triloba* (L.) Dunal., 09 May 1883.

Apiaceae

+*Chaerophyllum procumbens* (L.) Crantz, 30 Apr 1883.

+*Cicuta maculata* L., 23 Aug 1882.

+*Cryptotaenia canadensis* (L.) DC., 1882.

#*Daucus carota* L., 26 Aug 1882.

+*Erigenia bulbosa* (Michx.) Nutt., 06 Apr 1880.

+*Eryngium yuccifolium* Michx., 14 Aug 1882.

+*Heracleum maximum* Bartr., 28 May 1884, 28 May 1884, 28 May 1884.

+*Osmorhiza longistylis* (Torr.) DC., 23 May 1884, 23 May 1884, 13 Jun 1883.

+*Oxypolis rigidior* (L.) Raf., 1882, 01 Jun 1882, 9 Sep 1882.

#+*Pastinaca sativa* L., 1882.

Perideridia americana (Nutt.) Reichenb., 09 Jul 1882.

+*Polytaenia nuttallii* DC., 16 Jun 1880, 28 May 1884.

+*Sanicula canadensis* L. var. *canadensis*, 12 May 1880, 18 Jun 1888.

Sanicula odorata Pryer & Phillippe, 12 May 1880, 01 Jun 1882.

*+*Sium suave* Walt., 31 Aug 1880.

Spermolepis inermis (Nutt.) Math. & Constance, 12 Jun 1888.

+*Taenidia integerrima* (L.) Drude, 19 Jun 1882, 29 May 1888.

+*Thaspium trifoliatum* (L.) Gray, 18 Jun 1883.

+*Thaspium trifoliatum* (L.) Gray var. *trifoliatum*, 18 Jun 1888.

+*Zizia aurea* (L.) Koch, 11 May 1887, 11 May 1887.

Apocynaceae

Apocynum androsaemifolium L., 30 Jun 1888, 30 Jun 1888, 30 Jun 1888.

+*Apocynum cannabinum* L., 1882, 02 Jun 1887.

Aristolochiaceae

+*Aristolochia tomentosa* Sims, 19 May 1880, 22 May 1883.

Asarum canadense L., 19 May 1880, 31 May 1884.

Asclepiadaceae

+*Ampelamus albidus* (Nutt.) Britt., 22 Jul 1884.

Asclepias hirtella (Pennell) Woodson, 13 Sep 1882.

*+*Asclepias incarnata* L., 23 Sep 1882.

+*Asclepias purpurascens* L., 19 Jun 1882.

+*Asclepias sullivantii* Engelm., 13 Sep 1882.

+*Asclepias syriaca* L., 29 Aug 1882, 08 Jun 1887.

+*Asclepias tuberosa* L., 17 Jul 1882.

+*Asclepias verticillata* L., 02 Aug 1883.

+*Asclepias viridiflora* Raf., 28 Jun 1884.

Asteraceae

#+*Achillea millefolium* L., 1881.

Actinomeris alternifolia (L.) Benth., no date.

Actinomeris helianthoides (Michx.) Nutt., 26 Jul 1882.

Ageratina altissima (L.) R. M. King & H. Robins, 26 Aug 1882.

Ambrosia artemisifolia L., 26 Aug 1882.

Ambrosia bidentata Michx., 14 Aug 1880.

+*Ambrosia trifida* L., 26 Aug 1882.

+*Antennaria plantaginifolia* (L.) Hook., 23 Apr 1880.

#+*Anthemis cotula* L., 1881, 31 Aug 1883.

Arctium lappa L. 31 Aug 1883.

Arnoglossum atriplicifolium (L.) H. Robins, 26 Aug 1882.

+*Arnoglossum plantagineum* Raf., 7 Jul 1882.

Artemisia biennis Willd., 27 Sep 1882.

+*Bidens aristosa* (Michx.) Britt., 24 Aug 1880, 02 Sep 1882.

Bidens bipinnata L., 1881.

**Bidens cernua* L., 23 Sep 1882.

+*Bidens frondosa* L., 02 Sep 1882.

**Bidens tripartita* L., 16 Sep 1882.

*+*Boltonia asteroides* (L.) L'Her. var. *recognita* (Fern. & Griseb.) Cronq., 13 Sep 1882, 13 Sep 1882.

Brickellia eupatorioides (L.) Shinnars, 29 Aug 1882.

Cirsium altissimum (L.) Spreng., 23 Aug 1882.

Cirsium discolor (Muhl. ex Willd.) Spreng., 04 Sep 1882.

**Cirsium muticum* Michx., 09 Sep 1882.

+*Cirsium pumilum* (Nutt.) Spreng. var. *hillii* (Canby) C. Bolvin, 21 Jun 1884.

#*Cirsium vulgare* (Savi) Tenore, 27 Jul 1882.

+*Conyza canadensis* (L.) Cronq., 16 Aug 1880.

Conyza ramosissima Cronq., 31 Aug 1880.

+*Coreopsis palmata* Nutt., 08 Jul 1883.

+*Coreopsis tripteris* L., 24 Aug 1880, 30 Aug 1884.

Dyssodia papposa (Vent.) A. Hitchc., 4 Sep 1882.

+*Echinacea pallida* (Nutt.) Nutt., 11 Jun 1884.

+*Echinacea purpurea* (L.) Moench., 07 Aug 1882.

- Eclipta prostrata* (L.) L., 24 Aug 1880.
+*Erechtites hieracifolia* (L.) Raf., 29 Aug 1882, 26 Oct 1883.
+*Erigeron annuus* (L.) Pers., 19 Jun 1882, 30 Jun 1882.
+*Erigeron philadelphicus* L., 13 Jun 1883.
+*Erigeron pulchellus* Michx., 12 May 1880.
+*Eupatorium altissimum* L., 26 Aug 1882.
*+*Eupatorium perfoliatum* L., 23 Sep 1882.
+*Eupatorium serotinum* Michx., 26 Aug 1882.
Eupatorium sessilifolium L., 09 Sep 1882.
Euthamia gymnospermoides Greene, 24 Aug 1880.
Eutrochium purpureum (L.) E. E. Lamont, 14 Aug 1882.
Gamochaeta purpurea (L.) Cabrera, 27 Jul 1882.
Hasteola suaveolens (L.) Raf., 26 Oct 1883.
+*Helenium autumnale* L., 1881.
+*Helianthus annuus* L., 26 Aug 1884.
Helianthus hirsutus Raf., 14 Aug 1882.
+*Helianthus mollis* Lam., 24 Aug 1880.
Helianthus pauciflorus Nutt., 21 Aug 1882.
+*Helianthus strumosus* L., 13 Aug 1888.
Helianthus tuberosus L., 29 Aug 1882.
+*Heliopsis helianthoides* (L.) Sweet var. *scabra* (Dunal) Fern., 29 Jul 1882.
Hieracium scabrum Michx., 02 Sep 1882.
Iva annua L., 29 Aug 1883.
Krigia biflora (Walt.) Blake, 19 Jun 1882, 23 May 1884.
+*Lactuca canadensis* L., 12 Jul 1882, 08 Aug 1882.
+*Lactuca floridana* (L.) Gaertn., 23 Aug 1882.
Lactuca serriola L., 07 Aug 1883.
#*Leucanthemum vulgare* Lam., 08 Jul 1883.
Liatris sp., 24 Aug 1880.
Liatris aspera Michx., 23 Aug 1882.
+*Liatris pycnostachya* Michx., 1880, 14 Aug 1882.
Nabalus asper (Michx.) Torr. & Gray, 09 Sep 1882.
Nabalus racemosus (Michx.) Hook., 09 Sep 1882.
Packera aurea (L.) A. Love & D. Love, 11 May 1880.
+*Parthenium integrifolium* L., 08 Jul 1883.
+*Pseudognaphalium obtusifolium* (L.) Hilliard & Burt., 17 Oct 1883, 11 Sep 1884.
Ratibida pinnata (Vent.) Barnh., 29 Jul 1882.
+*Rudbeckia hirta* L., 14 Aug 1882.
+*Rudbeckia laciniata* L., 02 Sep 1882.
+*Rudbeckia subtomentosa* Pursh., 24 Aug 1880.
Rudbeckia triloba L., 07 Aug 1882.
+*Silphium integrifolium* Michx., 14 Aug 1882.
+*Silphium laciniatum* L., 21 Aug 1882, 21 Aug 1882.
+*Silphium perfoliatum* L., 18 Aug 1882.
+*Silphium terebinthinaceum* Jacq., 18 Aug 1882.
+*Solidago canadensis* L., 26 Aug 1882.
Solidago glaberrima M. Martens, 14 Aug 1882, 02 Aug 1883.
+*Solidago nemoralis* Ait., 25 Sep 1882.
Solidago radula Nutt., 02 Sep 1882.
Solidago rigidiuscula (Torr. & Gray) Porter, 09 Sep 1882.
+*Solidago speciosa* Nutt., 25 Sep 1882, 25 Sep 1882.
+*Solidago ulmifolia* Muhl. Ex Willd., 05 Sep 1882.
#*Sonchus asper* (L.) Hill, 19 Jul 1883.
#*Sonchus oleraceus* L., 04 Jul 1882.
+*Symphytotrichum anomalum* (Engelm. ex Torr. & Gray) G. L. Nesom, 25 Sep 1882.
Symphytotrichum novae-angliae (L.) G. L. Nesom, 9 Sep 1882.
Symphytotrichum ontarionis (Wieg.) G. L. Nesom, 10 Oct 1910.
Symphytotrichum parviceps (E. S. Burgess) G. L. Nesom, 09 Sep 1882.
Symphytotrichum pilosum (Willd.) G. L. Nesom, 25 Sep 1882.
Symphytotrichum praealtum (Poir.) G. L. Nesom, 09 Sep 1882.
Symphytotrichum turbinellum (Lindl.) G. L. Nesom, 25 Sep 1882.
Tanacetum vulgare L., 02 Aug 1883.
#*Taraxacum officinale* F. H. Wiggers, 06 May 1884.
Vernonia missurica Raf., 07 Aug 1882.
Xanthium italicum Moretti, 23 Aug 1882.
- Balsaminaceae**
+*Impatiens capensis* Meerb., 26 Jul 1882.
+*Impatiens pallida* Nutt., 26 Jul 1882.
- Berberidaceae**
+*Podophyllum peltatum* L., 30 Apr 1883.
- Bignoniaceae**
+*Campsis radicans* (L.) Seem., 29 Jul 1882.
- Boraginaceae**
#+*Cynoglossum officinale* L., 04 Jun 1885.
Hackelia virginiana (L.) I. M. Johnston, 26 Jul 1882.
+*Lithospermum canescens* (Michx.) Lehm., 14 Apr 1881, 30 Apr 1883.

+*Mertensia virginica* (L.) Pers., 27 Apr 1883.

Myosotis verna Nutt., 01 Jun 1880.

Brassicaceae

#*Armoracia rusticana* (Lam.) Gaertn., Mey, & Al-Shehbaz, 19 Jul 1883.

Boechera canadensis (L.) Al-Shehbaz, 16 Jun 1880.

+*Boechera dentata* (Raf.) Al-Shehbaz & Zaruchi, 23 Apr 1880.

#*Brassica nigra* (L.) Koch, 14 Jul 1882.

#+*Capsella bursa-pastoris* (L.) Medik., 23 Aug 1882.

*+*Cardamine bulbosa* (Muhl.) BSP., no date.

#*Cardamine hirsuta* L. no date.

Dentaria laciniata Muhl., 19 Apr 1880.

Descurainia pinnata (Walt.) Britt. ssp. *brachycarpa* (Richards.)
Detling, 27 Apr 1880.

Iodanthus pinnatifidus (Michx.) Steud., 5 May 1880, 28 May 1884,
28 May 1884.

+*Lepidium virginicum* L., 01 Jun 1882.

Planodes virginica (L.) Greene, no date.

**Rorippa palustris* (L.) Besser var. *fernaldiana* (Butters & Abbe)
Stukey, 19 Jul 1882.

**Rorippa sessilifolia* (Nutt.) A. Hitchc., 23 Aug 1882.

Sisymbrium officinale (L.) Scop., 01 Jun 1882.

Cabombaceae

**Brasenia schreberi* J. Gmel., 12 Jul 1883, 11 Jul 1884.

Caesalpinaceae

+*Cercis canadensis* L., 27 Apr 1883, 11 May 1885.

+*Chamaecrista fasciculata* (Michx.) Greene, no date, 01 Aug 1888.

+*Gymnocladus dioica* (L.) K. Koch, 28 May 1884.

Senna marilandica (L.) Link, 13 Aug 1883.

Campanulaceae

+*Campanulastrum americanum* (L.) Small, 1881, 24 Jul 1884.

*+*Lobelia cardinalis* L., 14 Aug 1880.

+*Lobelia inflata* L., 1880.

*+*Lobelia siphilitica* L., 05 Sep 1882, 16 Sep 1882, 31 Aug 1886.

+*Lobelia spicata* Lam. var. *leptostachya* (A. DC) Mack & Bush, 14
Aug 1882, 11 Jun 1884.

Lobelia spicata Lam. var. *spicata*, 14 Aug 1882, 11 Jun 1884.

+*Triodanis perfoliata* (L.) Nieuwl., 01 Jun 1882.

Cannabaceae

#*Cannabis sativa* L., 04 Aug 1883, 04 Aug 1883.

Humulus lupulus L., 16 Aug 1883, 16 Aug 1883.

Caprifoliaceae

Lonicera reticulata Raf., 06 Jun 1884.

+*Sambucus nigra* L., 04 Jul 1882.

+*Triosteum perfoliatum* L., 13 Jun 1883.

+*Viburnum prunifolium* L., 15 May 1884.

Caryophyllaceae

Agrostemma githago L., Macoupin Station, 25 May 1880, 27 Jun
1884.

#+*Cerastium fontanum* Baum, 08 Jun 1883.

+*Cerastium nutans* Raf., 15 May 1883.

Paronychia canadensis (L.) Wood, 28 Jun 1882.

#+*Saponaria officinalis* L., 13 Jul 1883, 17 Aug 1883.

Silene antirrhina L., 01 Jun 1882.

Silene nivea (Nutt.) Otth., 04 Jul 1882.

#*Silene noctiflora* L., no date.

+*Silene stellata* (L.) Ait., 10 Jul 1882.

+*Stellaria longifolia* Muhl., 21 May 1884.

#+*Stellaria media* (L.) Cyrillo, 18 May 1883.

Celastraceae

+*Celastrus scandens* L., 14 Sep 1882, 23 May 1884.

+*Euonymus atropurpurea* Jacq., no date.

Ceratophyllaceae

Ceratophyllum demersum L., 17 May 1883.

Chenopodiaceae

#*Atriplex prostrata* Moq., 11 Jul 1883.

#*Chenopodium album* L., 23 Jul 1883.

#*Chenopodium murale* L., 06 Jul 1883.

Dysphania ambrosioides (L.) Mosyakin & Clements, 05 Aug 1883.

Cistaceae

Lechea tenuifolia Michx., 24 Jul 1883.

Convolvulaceae

+*Calystegia sepium* (L.) R. Br., 04 Jul 1882.

Calystegia spithamea (L.) Pursh., 06 Jun 1884.

+*Ipomea hederacea* (L.) Jacq., 01 Sep 1883.

+*Ipomea pandurata* (L.) G. F. W. Mey, 29 Jul 1882.

Cornaceae

Cornus obliqua Raf., 25 Jul 1884.

Cornus racemosa Lam., 11 Jun 1884.

Corylaceae

Carpinus caroliniana Walt., no date.

Ostrya virginiana (Mill.) K. Koch, 02 May 1885.

Cucurbitaceae

Echinocystis lobata (Michx.) Torr. & Gray, 10 Aug 1883.

Sicyos angulatus L., 29 Aug 1883.

Cuscutaceae

Cuscuta coryli Engelm., 10 Aug 1880.

Cuscuta glomerata Choisy, 1880.

Ebenaceae

+*Diospyros virginiana* L., 11 Jun 1887, 11 Jun 1887, 11 Jun 1887, 11 Jun 1887, 11 Jun 1887.

Euphorbiaceae

Acalypha virginica L., 12 Aug 1880.

Chamaesyce maculata (L.) Small, 14 Aug 1880.

Chamaesyce nutans (Lag.) Small, 1880.

Croton capitatus Michx., 16 Aug 1882.

+*Euphorbia corollata* L., 09 Aug 1882.

Poinsettia dentata (Michx.) Kl. & Garcke, 31 Aug 1880.

Fabaceae

+*Amorpha canescens* Pursh, 12 Jul 1883, 01 Jul 1884.

Amphicarpaea bracteata (L.) Fern., 16 Aug 1880.

Apios americana Medic., 17 Aug 1883.

+*Astragalus canadensis* L., 26 Aug 1882.

Astragalus crassicaarpus Nutt. var. *trichocalyx* (Nutt.) Barneby, no date, no date.

+*Baptisia alba* (L.) Vent. var. *macrophylla* (Lariseley) Isely, 19 Jul 1882.

+*Baptisia bracteata* Ell., 19 May 1886.

+*Dalea candida* (Michx.) Willd., 29 Jul 1882.

+*Dalea purpurea* Vent., 29 Jul 1882.

+*Desmodium canadense* (L.) DC., 09 Aug 1882.

+*Desmodium canescens* (L.) DC., 23 Aug 1882.

Desmodium ciliare (Muhl. ex Willd.) DC., 25 Sep 1882.

Desmodium cuspidatum (Muhl.) Loud. var. *cuspidatum*, 18 Aug 1882, 12 Aug 1888.

Desmodium glabellum (Michx.) DC., 11 Aug 1888, 22 Aug 1888.

Desmodium glutinosum (Muhl. ex Willd.) Wood, 18 Aug 1882.

+*Desmodium marilandicum* (L.) DC., no date, 22 Aug 1888, 03 Sep 1888.

Desmodium nudiflorum (L.) DC., 18 Aug 1882.

+*Desmodium paniculatum* (L.) DC., 26 Aug 1884.

+*Desmodium sessilifolium* (M. A. Curtis) Torr. & Gray, 17 Aug 1883.

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+*Lespedeza capitata* Michx., no date.

Lespedeza violacea (L.) Pers., 18 Aug 1882, 12 Sep 1888, 12 Sep 1888.

+*Lespedeza virginica* (L.) Britt., 18 Aug 1882, 18 Aug 1882.

#+*Melilotus albus* Medic., 25 Jun 1883.

#*Melilotus officinalis* (L.) Pallas, 12 Jun 1884.

+*Orbexilum onobrychis* (Nutt.) Rydb., no date, 21 Jul 1884, 22 Jul 1884.

+*Strophostyles helvula* (L.) Ell., no date, 01 Aug 1888, 02 Aug 1888, 13 Aug 1888.

Strophostyles leiosperma (Torr. & Gray) Piper, 16 Aug 1880.

Strophostyles umbellata (Muhl.) Britt., 04 Sep 1888, 04 Sep 1888.

+*Stylosanthes biflora* (L.) BSP., 09 Sep 1886.

+*Tephrosia virginiana* (L.) Pers., var. *virginiana*, 25 Jun 1886.

#+*Trifolium pratense* L., 23 Jul 1883.

Trifolium reflexum L., 23 May 1889.

#+*Trifolium repens* L., 09 Jun 1882.

Fagaceae

Quercus alba L., 22 Sep 1882.

Quercus imbricaria Michx., no date.

Quercus macrocarpa Michx., 16 Sep 1882, 17 May 1884.

Quercus muhlenbergii Engelm., 16 Sep 1882, 17 May 1884.

Quercus rubra L., 16 Sep 1882, 08 May 1884.

Quercus stellata Wanhg., 17 May 1884.

Fumariaceae

+*Dicentra cucullaria* (L.) Bernh., 06 Apr 1880, 17 Apr 1883.

Gentianaceae

+*Frasera caroliniensis* Walt., 12 Jun 1885.

+*Gentiana puberulenta* J. Pringle, 29 Sep 1886.

+*Sabatia angularis* (L.) Pursh., 07 Aug 1883, 10 Aug 1883.

Geraniaceae

+*Geranium carolinianum* L., 06 Jun 1884, 26 Jun 1884.

+*Geranium maculatum* L., 15 May 1883.

Grossulariaceae

Ribes missouriense Nutt., 03 May 1883.

Haloragidaceae

**Myriophyllum heterophyllum* Michx., 12 Jul 1883, 12 Jul 1883.

Heliotropaceae

#*Heliotropium indicum* L., 1880, 23 Sep 1882.

Hippocastanaceae

+*Aesculus glabra* Willd., 30 Apr 1883.

Hydrangeaceae

+*Hydrangea arborescens* L., 02 Jul 1883.

Hydrophyllaceae

+*Ellisia nyctelea* L., 17 May 1880.

+*Hydrophyllum appendiculatum* Michx., 19 May 1880, 31 May 1884.

+*Hydrophyllum virginianum* L., 23 May 1884.

Hypericaceae

Hypericum drummondii (Grev. & Hook.) Torr. & Gray, no date.

**Hypericum gymnanthum* Engelm. & Gray, 07 Aug 1882.

Hypericum mutilum L., 14 Aug 1882.

+*Hypericum punctatum* Lam., 19 Jul 1882.

Hypericum pyramidatum Dryander, 10 Aug 1883.

Hypericum sphaerocarpum Michx., 22 Jul 1882.

Juglandaceae

Carya cordiformis (Wangenh.) K. Koch, 23 May 1884.

Carya glabra (Mill.) Sweet, 22 May 1884.

Carya tomentosa (Poir.) Nutt., 24 May 1884.

Lamiaceae

+*Agastache nepetoides* (L) Ktze., 14 Aug 1882.

+*Agastache scrophulariaefolia* (Willd.) Ktze., 09 Aug 1882.

Blephilia ciliata (L.) Bernh., 19 Jun 1882.

+*Blephilia hirsuta* (Pursh.) Bernh., 04 Jul 1882.

#*Glechoma hederacea* L., 5 May 1883.

Hedeoma pulegioides (L.) Pers., 7 Aug 1882.

+*Isanthus brachiatus* (L.) BSP., 01 Oct 1886, 01 Oct 1886, 01 Oct 1886.

+*Leonurus cardiaca* L., 06 Jul 1882.

Lycopus americanus Muhl., 9 Aug 1882.

**Lycopus virginicus* L., 30 Sep 1882.

+*Marrubium vulgare* L., no date.

#+*Mentha arvensis* L., 17 Aug 1883.

+*Monarda bradburiana* Beck., 13 Jun 1883.

+*Monarda fistulosa* L., 07 Aug 1882.

+*Nepeta cataria* L., 10 Jul 1882.

#+*Prunella vulgaris* L., 26 Jul 1882.

Pycnanthemum tenuifolium Schrad., 10 Jul 1882.

Pycnanthemum verticillatum (Michx.) Pers. var. *pilosum* (Nutt.) Cooperrider, 14 Aug 1882.

+*Pycnanthemum virginianum* (L.) Dur. & B. D. Jacks, 14 Jul 1886, 14 Jul 1886, 14 Jul 1886.

Scutellaria incana Biehler, 29 Jul 1882, 08 Aug 1888.

**Scutellaria lateriflora* L., 17 Aug 1883.

Scutellaria ovata Hill var. *ovata*, 28 Jun 1882, 28 June 1882.

Scutellaria parvula Michx., 06 Jun 1884.

Stachys hispida Pursh., 11 Jul 1882.

**Stachys pilosa* Nutt. var. *homotricha* (Fern.) Mohlenbr., 11 Jul 1882.

**Stachys tenuifolia* Willd., 26 Jul 1882.

+*Teucrium canadense* L., 11 Jul 1882.

Lentibulariaceae

**Utricularia macrorhiza* LeComte, 12 Jul 1883.

Linaceae

Linum medium (Planch.) Britt. var. *texanum* (Planch) Fern., no date.

#*Linum usitatissimum* L., no date.

Lythraceae

*+*Ammannia coccinea* Rottb., 1880.

+*Cuphea viscosissima* Jacq., no date.

**Didiplis diandra* (DC.) Wood, 17 Aug 1883.

*+*Lythrum alatum* Pursh., 22 Jul 1882.

Malvaceae

#+*Abutilon theophrasti* Medic., 14 Aug 1880, 25 Jul 1882.

Alcea rosea L., 10 Jul 1884.

**Hibiscus laevis* All., 09 Aug 1882.

**Hibiscus lasiocarpus* Cav., 04 Sep 1882, 04 Sep 1882.

#**Hibiscus trionum* L., 09 Aug 1882.

#*Malva neglecta* Wallr., 6 Aug 1882, 10 Oct 1883.

#*Malva sylvestris* L., 06 Oct 1883.

+*Sida spinosa* L., 08 Aug 1882.

Menispermaceae

Menispermum canadense L., 06 Jun 1884.

Molluginaceae

Mollugo verticillata L., 04 Jul 1882.

Moraceae

Morus rubra L., 08 May 1884, 22 May 1884.

Nelumbonaceae

*+*Nelumbo lutea* (Willd.) Pers., 17 Aug 1883, 17 Aug 1883, 29 Aug 1883.

Nymphaeaceae

*+*Nuphar advena* (Ait.) Ait., 01 Jul 1884.

**Nymphaea odorata* Sol., 31 May 1884.

Onagraceae

+*Circaea lutetiana* Aschers & Magnus ssp. *canadensis* (L.)
Aschers & Magnus, no date, 28 Jun 1882.

**Epilobium coloratum* Spreng., 31 Aug 1886, 31 Aug 1886.

+*Gaura longiflora* Spach., 09 Aug 1882.

*+*Ludwigia alternifolia* L., 07 Aug 1882.

**Ludwigia polycarpa* Short & Peter, 02 Aug 1883.

+*Oenothera biennis* L., 29 Aug 1882.

Oenothera pilosella Raf., 19 Jun 1882.

Orobanchaceae

+*Orobanche uniflora* L., 27 Apr 1880.

Oxalidaceae

+*Oxalis stricta* L., 22 Jun 1882, 30 Jul 1888, 13 Aug 1888, 22 Aug
1888, 22 Aug 1888.

+*Oxalis violacea* L., 06 Jun 1882, 22 Aug 1888.

Papaveraceae

+*Sanguinaria canadensis* L., 12 Apr 1880.

Passifloraceae

+*Passiflora lutea* L., 24 Jul 1884.

Pedaliaceae

Proboscidea louisianica (Mill.) Thell., 19 Aug 1884, 19 Aug 1884.

Penthoraceae

**Penthorum sedoides* L., 21 Aug 1882.

Phytolaccaceae

+*Phytolacca americana* L., 04 Jul 1882.

Plantaginaceae

Plantago aristata Michx., 26 Jul 1882.

Plantago pusilla Nutt., 22 May 1883.

Plantago rugellii Decne., 26 Jul 1882.

Plantago virginica L., 23 May 1884, 23 May 1884.

Polemoniaceae

+*Phlox divaricata* L. ssp. *laphamii* (Wood) Wherry, 27 Apr 1883.

+*Phlox glaberrima* L. ssp. *interior* (Wherry) Wherry, 30 Sep 1882,
11 Jun 1884.

+*Phlox pilosa* L. ssp. *pilosa*, 06 Jun 1882

+*Polemonium reptans* L., 12 May 1884.

Polygalaceae

Polygala sanguinea L., 27 Jul 1882.

Polygala verticillata L., 21 Jun 1880.

Polygonaceae

Antenoron virginianum (L.) Roberty & Vautier, no date.

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#*Fagopyrum esculentum* Moench, 20 Aug 1883.

Fallopia convolvulus (L.) A. Love, 14 Aug 1882.

+*Fallopia scandens* (L.) Holub., 14 Aug 1882.

*+*Persicaria amphibia* (L.) S. F. Gray, 23 Sep 1882.

#*+*Persicaria hydropiper* (L.) Opiz., 26 Aug 1882.

*+*Persicaria hydropiperoides* (Michx.) Small, 02 Aug 1883.

+*Persicaria lapathifolia* (L.) S. F. Gray, 07 Aug 1882.

Persicaria maculosa S. F. Gray, 19 Jun 1882.

Persicaria orientalis (L.) Spach., 15 Aug 1883.

+*Persicaria pensylvanica* (L.) Small, 07 Aug 1882.

**Persicaria punctata* (Ell.) Small, 26 Aug 1882.

#*Polygonum aviculare* L., 31 Aug 1883.

Polygonum erectum L., 09 Sep 1882.

#*Rumex acetosella* L., 20 Jun 1883.

Rumex altissimus Wood, 13 Jun 1883.

#*Rumex crispus* L., 19 Jun 1882.

#*Rumex obtusifolius* L., 01 Jul 1882.

**Rumex verticillatus* L., 23 Sep 1882.

**Tracaulon sagittatum* (L.) Small, 20 Oct 1883.

Portulacaceae

+*Claytonia virginica* L., 16 Apr 1883.

Primulaceae

Anagallis minima (L.) Krause, no date.

+*Dodecatheon meadia* L. var. *meadia*, 15 May 1883.

*+*Samolus parviflorus* Raf., 16 Aug 1880.

+*Steironema ciliatum* (L.) Baudo, 06 Aug 1882.

Steironema hybridum (Michx.) Raf. ex Small, 19 Jul 1883.

+*Steironema lanceolatum* (Walt.) Gray, 10 Jul 1882.

+*Steironema quadriflorum* ((Sims) Hitchc., 23 Aug 1883.

Ranunculaceae

Anemone cylindrica Gray, 07 Jun 1880.

Anemone virginiana L., 12 Jul 1883.

+*Anemonella thalictroides* (L.) Spach., 30 Apr 1883.

+*Aquilegia canadensis* L., 15 May 1883.

+*Clematis pitcheri* Torr. & Gray, 02 Jul 1883.

+*Clematis virginiana* L., 04 Aug 1884, 04 Aug 1884.

+*Delphinium tricornis* Michx., 14 Apr 1881, 15 May 1883.

Enemion biternatum Raf., 12 May 1884.

+*Myosurus minimus* L., no date, May 1884.

- +*Ranunculus abortivus* L., 25 Apr 1883, 03 May 1883,
- Ranunculus acris* L., 12 Jun 1885.
- +*Ranunculus fascicularis* Bigel., no date, 30 Apr 1883.
- **Ranunculus flabellaris* Raf., 19 May 1880, 15 May 1883.
- Ranunculus hispidus* Michx., 03 May 1883.
- **Ranunculus pusillus* Poir., 19 May 1880.
- +*Ranunculus recurvatus* Poir., no date.
- **Ranunculus trichophyllus* Chaix., 15 May 1883.
- +*Thalictrum revolutum* DC., 11 Jun 1884, 11 Jun 1884.

Rhamnaceae

- +*Ceanothus americanus* L., 12 Jun 1880, 12 Jul 1883.
- +*Rhamnus lanceolata* Pursh., 23 Apr 1880.

Rosaceae

- Agrimonia parviflora* Sol., 21 Aug 1882.
- Agrimonia pubescens* Wallr., 07 Aug 1882.
- Aruncus dioicus* (Walt.) Fern., 29 Jun 1883.
- Crataegus calpodendron* (Ehrh.) Medic., 01 May 1883.
- +*Fragaria virginiana* Duchesne, 21 May 1884.
- +*Geum canadense* Jacq., 28 Jun 1882.
- +*Geum vernum* (Raf.) Torr. & Gray, 27 Apr 1880, 10 May 1884.
- Malus coronaria* (L.) Mill. var. *coronaria*, 02 May 1883.
- Potentilla norvegica* L., 1883, 28 Jun 1883, 17 Aug 1883.
- Potentilla simplex* Michx., 17 May 1880.
- Poteranthus stipulatus* (Muhl.) Britt., 19 Jun 1882.
- +*Prunus americana* Marsh., 27 Apr 1883.
- +*Prunus serotina* Ehrh., 17 May 1884.
- +*Rosa carolina* L., 06 Jun 1882, 12 Jul 1883.
- +*Rosa setigera* Michx. var. *tomentosa* Torr. & Gray, 04 Jul 1883.
- +*Rubus flagellaris* Willd., 15 May 1883.

Rubiaceae

- *+*Cephalanthus occidentalis* L., 17 Jul 1882.
- +*Galium aparine* L., 21 May 1883.
- Galium circaezans* Michx., 28 Jun 1882.
- Galium obtusum* Bigel., 28 May 1884.
- +*Houstonia purpurea* L., 22 May 1882, 06 Jun 1882.

Rutaceae

- +*Ptelea trifoliata* L., 31 May 1884, 11 Jul 1884.
- +*Zanthoxylum americanum* Mill., 28 Apr 1884, 28 Jun 1884.

Salicaceae

- Populus deltoides* Marsh, 1883, 14 Apr 1883.
- **Salix sericea* Marsh, 22 May 1884, 20 Apr 1885.

Santalaceae

- +*Comandra umbellata* (L.) Nutt., 11 May 1880, 15 May 1883.

Saxifragaceae

- +*Heuchera richardsonii* R. Br., 22 May 1883.

Scrophulariaceae

- +*Agalinis purpurea* (L.) Pennell, 13 Sep 1882, 30 Aug 1884, 09 Sep 1884.
 - +*Agalinis tenuifolia* (Vahl) Raf., 05 Sep 1882.
 - Aureolaria grandiflora* (Benth.) Pennell var. *pulchra* Pennell, 09 Sep 1882.
 - +*Castilleja coccinea* (L.) Spreng., 15 May 1883, 30 May 1889.
 - Dasistoma macrophylla* Nutt.) Raf., 09 Aug 1882.
 - **Gratiola neglecta* Torr., 01 Jun 1882.
 - **Gratiola virginiana* L., 3 Aug 1883, 21 May 1884.
 - Leucospora multifida* (Michx.) Nutt., 1882.
 - #+*Linaria vulgaris* Mill., 20 Jun 1882.
 - *+*Lindernia dubia* (L.) Pennell, 24 Aug 1880.
 - *+*Mimulus alatus* Sol., 23 Aug 1882.
 - *+*Mimulus ringens* L., 13 Aug 1883.
 - Pedicularis canadensis* L., 08 May 1887.
 - **Pedicularis lanceolata* Michx., 09 Sep 1882.
 - Penstemon digitalis* Nutt., 19 Jun 1882.
 - +*Penstemon hirsutus* (L.) Willd., 01 Jun 1882.
 - #*Scrophularia nodosa* L., 26 Jul 1882.
 - Tomanthera auriculata* (Michx.) Raf., 02 Sep 1882.
 - Verbascum blattaria* L., 20 Jul 1882.
 - +*Verbascum thapsus* L., 1881.
 - #+*Veronica arvensis* L., 22 May 1883.
 - +*Veronica peregrina* L. var. *peregrina*, 14 May 1883.
 - Veronicastrum virginicum* (L.) Farw., 10 Jul 1882.
- #### Solanaceae
- #+*Datura stramonium* L., 19 Jul 1882, 27 Jul 1882.
 - #*Lycium barbarum* L., 15 Jun 1883.
 - #*Physalis grisea* (Waterf.) M. Martinez, 15 Sep 1890.
 - Physalis heterophylla* Nees, 31 Jul 1883.
 - Physalis virginiana* Mill., 02 Aug 1883, 11 Jun 1888.
 - +*Solanum carolinense* L., 19 Jul 1883.

Solanum ptychanthium Dunal., 04 Jul 1882.

Solanum rostratum Dunal., 21 Aug 1887.

Staphyleaceae

+*Staphylea trifolia* L., 19 May 1880, 11 May 1885.

Tiliaceae

+*Tilia americana* L., 29 Jun 1883.

Ulmaceae

+*Ulmus americana* L., 1883, 28 Apr 1885.

+*Ulmus rubra* Muhl., 05 Apr 1883.

Urticaceae

Laportea canadensis (L.) Wedd., 1882.

Parietaria pensylvanica Muhl., 1881.

Pilea pumila (L.) A. Gray, 14 Aug 1882.

Valerianaceae

Valerianella radiata (L.) DuRoi., 23 Jun 1882, 12 May 1886.

Verbenaceae

*+*Phyla lanceolata* (Michx.) Greene, 23 Aug 1882.

Verbena bracteata Lag. & Rodr., 29 Jul 1882.

+*Verbena hastata* L., 29 Jul 1882.

+*Verbena stricta* Vent., 1880.

+*Verbena urticifolia* L., 1880.

Violaceae

*+*Viola cucullata* Marsh, 03 Apr 1886.

Viola palmata L. var. *dilatata* Ell., 03 Apr 1886.

+*Viola pedata* L., 13 May 1880, 12 May 1884, 12 May 1884.

+*Viola sagittata* Ait., 11 May 1880.

Viola striata Ait., 19 May 1880.

Vitaceae

+*Parthenocissus quinquefolia* (L.) Planch., 26 Jun 1883.

Vitis cinerea (Engelm.) Engelm., 04 Jul 1883.

+*Vitis vulpina* L., 13 May 1880.