

CATALOGUE OF THE VASCULAR PLANTS OF THE WESTERN ILLINOIS UNIVERSITY

ALICE L. KIBBE LIFE SCIENCE STATION AND VICINITY

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ABSTRACT

Floristic studies conducted primarily from 1964 to the present at Western Illinois University's Alice L. Kibbe Life Science Station and environs have resulted in a total of 683 species of vascular plants.

The Alice L. Kibbe Life Science Station was established in 1964 as an instructional and research facility of Western Illinois University. It consists of 215 acres located at the north edge of Warsaw, Hancock County, Illinois. Adjacent to the station the Nature Conservancy owns 464 acres which provide a sanctuary for a wintering population of bald eagles. These 679 acres comprise the principal area included in this catalogue of vascular plants.

The area is located on the Mississippi River limestone bluffs which are covered with upland timber soils primarily derived from loess and glacial soils from the Upper Illinois glaciation. Schwegman (1973) designates this area as the glaciated section of the middle Mississippi Border Division in the classification of the Natural Divisions of Illinois. A number of rapidly descending valleys of various sizes with gentle to rather steep-sided slopes are characteristic. The floors of the larger valleys (glens) are occupied by intermittent streams which generally carry a small volume of water during the time of heavy rainfall in spring and fall and are dry during the summer. There are no permanent streams present. Rock outcrops are present along the sides of some of the larger valleys such as Prairie Glen, Spring Glen and, most notable and spectacular, Cedar Glen. Between these three major glens on the ridge-tops are old fields which were formerly cultivated. On the ridge between Prairie and Spring Glens the old field has been converted to a 20-acre artificial prairie of which 8 acres were seeded in 1969 and 12 acres in 1972. Both were seeded with Andropogon furcatus Muhl., A. scoparius Michx., Sorghastrum nutans (L.) Nash., and Panicum virgatum L. Today S. nutans and P. virgatum dominate the 12 acres and S. nutans dominates the 8 acres and in each there are only a few forbes. Below the bluffs are the bottomlands including the flood plain of the Mississippi River.

The area was originally forested but has been disturbed by past practices of farming, logging, grazing and fire. The steeper slopes are the least disturbed areas and perhaps some of them have had minimal to no

disturbance. Since there have been no recent major disturbances the present forest is developing well.

Eight general plant communities can be distinguished: upland forest, bluff and slope, prairie, bottomland, aquatic, old field, lawn, and railroad, the latter three being disturbance communities. The drier uplands support an oak-hickory forest with the major species being Quercus alba L., Q. velutina Lam., Q. macrocarpa Michx., Q. rubra L., Q. imbricaria Michx. and Carya ovata (Mill.) K. Koch. Major woody plants of the mesic slopes are Carya cordiformis (Wang.) K. Koch, Celtis occidentalis L., Juglans nigra L., Acer saccharum Marsh., and Tilia americana L. in the overstory and Aesculus glabra Willd., Cercis canadensis L., Cornus drummondii C.A. Mey., Ostrya virginiana (Mill.) Koch and Staphylea trifoliata L. common in the understory. Plants characteristic of the herbaceous layer include Mertensia virginica (L.) Pers., Hepatica acutiloba DC., Claytonia virginica L., Podophyllum peltatum L., Polygonatum commutatum (Schultes) Dietr., Sanguinaria canadensis L., Aster sp., Solidago sp. and associated woodland plants, Amelanchier arborea (Michx. f.) Fern., Juniperus virginiana L., Quercus muhlenbergii Engelm. and Aquilegia canadensis L. are found particularly on the steeper rocky slopes. A thriving colony of Camptosorus rhizophyllus (L.) Link occurs on "Hanging Bridge" in Cedar Glen.

There are several natural small hill-type prairies usually dominated by Andropogon scoparius on the top of and sometimes extending back from the glen walls where, due to exposure, wind, shallow soil, and good drainage, the conditions are relatively dry. Some other characteristic plants are Lithospermum canescens (Michx.) Lehm., Amorpha canescens Pursh, Petalostemum purpureum (Vent.) Rydb., Psoralea onobrychis Nutt. and Sorghastrum nutans (L.) Nash. Various xeric-type lichens and mosses can usually be seen also. It is commonly found that most of these areas are being invaded by woody plants such as Cornus sp. and Crataegus sp.

There are three major old field communities present. One, of 20 acres on the ridge between Spring and Prairie Glens belonging to the Kibbe Station has been converted to an artificial prairie as noted earlier. On the ridge between Cedar and Prairie Glens belonging to the Nature Conservancy is a 45 acre old field of which the southern-most 28 acres have been uncultivated since 1973 and the northern-most 17 acres uncultivated since 1971. The herbaceous cover consists of various species of Ambrosia, Solidago, Erigeron, Amaranthus, Bromus, Aster, Cirsium, Setaria and other such characteristic plants. Some species of woody plants as Rubus, Crataegus, Cornus, and Quercus are beginning to become established. The 17 acre old field belonging to the Nature Conservancy is located below the bluffs on the floodplain and has been uncultivated since 1970. Due to this location which results in it being subject to yearly flooding the characteristic plants are in marked contrast to the upland old field. Such plants include species of Xanthium, Polygonum, Cuscuta and Setaria. Salix has started to invade this old field.

The bottomland community subject to flooding every spring and to a lesser extent in the fall occurs between the bluffs and the Mississippi River as well as on the islands in the river. A cathedral forest of tall mature Populus deltoides Marsh. and Acer saccharinum L. is present along the edge of the river. This forest is practically devoid of any understory or herbaceous vegetation. The islands, as well as other areas of the

mainland floodplain, have a dense herbaceous cover as well as vines as Vitis sp., Menispermum canadense L., Ampelopsis cordata Michx. and Rhus radicans L. amid the varying aged forest of Salix interior Rowlee, S. nigra Marsh., Populus deltoides Marsh., Acer saccharinum L., Ulmus rubra Muhl., Celtis occidentalis L. and Acer negundo L. Platanus occidentalis L. and Fraxinus americana L. are more characteristically found on the margins of the larger intermittent streams rather than on the river floodplain. On the islands and floodplain characteristic herbaceous plants as Laportea canadensis (L.) Gaud., Boehmeria cylindrica (L.) Sw., Pilea pumila (L.) A. Gray and Sicyos angulatus L. are present.

The true aquatic habitats are the Mississippi River and its sloughs which permeate the floodplain and islands to varying degrees, as well as the pond which was constructed above the bluffs in 1966 as a water supply for the station. Only Lemma minor L. and Ceratophyllum demersum L. have been found in the river. In the pond, L. Minor and Potamogeton foliosus Raf. are present. At the edge of the pond and in the drainage ditch to the pond where the soil is wet can be found such herbaceous plants as Cyperus sp., Scirpus sp., Typha latifolia L. and Carex sp. and woody willows. In the wet area at the mouth of the spring in Spring Glen can be found a dense stand of Equisetum. A shoreline plant association on sandy or muddy soils characteristic of outwashes, spits and sandbars, includes Rorippa sp., Acnida altissima Riddell, Bidens sp., Artemisia annua L., Eclipta alba (L.) Hassk., Lycopus sp., Ammannia sp., Polygonum sp., Cratiola neglecta Torr., Glyceria sp., and Eragrostis hypnoides (Lam.) BSP.

The lawn community is found around the buildings and consists of the lawn and ornamental plantings. Characteristic plants include Poa pratensis L., Digitaria sanguinalis (L.) Scop., Taraxacum officinale Wiggers, Plantago lanceolata L., P. rugelii Dcne., Glechoma hederacea L., Stellaria media (L.) Vill., Viburnum lantana L., Syringa vulgaris L., Ligustrum vulgare L., Belamcanda chinensis (L.) DC., Iris germanica L., and Metasequoia glyptostroboides Hu & Cheng.

The cinder ballast roadbed of the recently abandoned railroad line which transverses the edge of the area is a dry, well drained, often unstable substrate which supports some representative plants as Chaenorrhinum minus (L.) Lange, Silene antirrhina L., Poa compressa L. Verbascum thapsus L. and Polanisia dodecandra (L.) DC.

Previous work concerning the flora of this area are those of Kibbe (1952), Kunshek (1971) and Wells (1977). Kibbe in her botanical survey of Hancock County frequently mentions Cedar Glen plants as well as information on the climate, geology, soils and past and present vegetation of this part of the county. Kunshek studied and compared the species composition and successional patterns of the vegetation of the floodplains of the Kibbe Station mainland and a nearby island. Wells studied the present vegetational patterns and successional trends on Eagle (Mink) Island which belongs to the Nature Conservancy. Currently other studies concerning the vegetation and ecology of both lowlands and uplands are in progress.

This catalogue, which can serve as a checklist, includes all of the vascular plants of the designated area which have been collected to date and are verified by herbarium specimen deposited in the herbarium of the A. L. Kibbe Life Science Station (WARK) with the one exception that certain species

cited by Kibbe (1952) and followed by an X in this catalogue do not have voucher specimens. An asterisk (*) following the species name indicates it to be an alien (i.e. not native to Illinois) according to Myers (1972). A cross-hatch (#) indicates that it has been planted, usually as an ornamental. There are, however, six species that occur both as planted and unplanted; these are not followed by a cross-hatch: Maclura pomifera (Raf.) Schneid. which was planted in the past as hedge-rows and now are large old trees, Robinia pseudoacacia L. planted in the past as ground cover, and the four prairie grass species mentioned earlier planted to establish the artificial prairie. Vascular plants observed but which could not be determined to species are not included as for example Sagittaria which is present but has not been observed to form fruits which are needed for certain identification.

A total of 683 species distributed in 371 genera and 109 families (1 arthropyte, 2 fern, 4 gymnosperm, 89 dicot and 13 monocot) are listed. Of these species 164 (24.0%) are aliens and 40 (5.9%) are planted. Nomenclature follows that of Jones (1963) and, for ornamental plants, of Bailey (1949).

DIVISION ARTHROPHYTA
EQUISETACEAE

Equisetum arvense L.
E. hyemale L.
E. laevigatum A. Br.

DIVISION PTEROPHYTA
OPHIOGLOSSACEAE

Botrychium virginianum (L.) Sw.

POLYPODIACEAE

Adiantum pedatum L.
Asplenium platyneuron (L.) Oakes
Camptosorus rhizophyllus
(L.) Link
Cystopteris bulbifera (L.)
Bernh. X
C. fragilis (L.) Bernh.
Polystichum acrosticoides (Michx.)
Schott
Woodsia obtusa (Spreng.) Torr.

DIVISION CONIFEROPHYTA
CUPRESSACEAE

Juniperus virginiana L.

PINACEAE

Pinus strobus L. #
Tsuga canadensis Carr. #*

TAXACEAE

Taxus baccata L. #*

TAXODIACEAE

Metasequoia glyptostroboides #*
Hu & Cheng
Taxodium distichum (L.) Rich. #

DIVISION ANTHOPHYTA

Class Dicotyledoneae

ACANTHACEAE

Ruellia humilis Nutt.
R. pedunculata Torr.
R. strepens L.

ACERACEAE

Acer negundo L.
A. nigrum Michx. f.
A. palmatum Thunb. #*
A. saccharinum L.
A. saccharum Marsh.

AIZOACEAE

Mollugo verticillata L. *

AMARANTHACEAE

Acnida altissima Riddell
Amaranthus hybridus L. X*
A. retroflexus L. *
A. spinosus L. *

ANACARDIACEAE

Rhus aromatica Ait.
R. glabra L.
R. radicans L.

ANNONACEAE

Asimina triloba (L.) Dunal

APOCYNACEAE

Apocynum androsaemifolium L.
A. cannabinum L.
A. sibiricum Jacq.
Vinca minor L. *

ARALIACEAE

Aralia racemosa L.
Panax quinquefolius L.

ARISTOLOCHIACEAE
Asarum reflexum Bickn.
 ASCLEPIADACEAE
Ampelamus albidus (Nutt.) Britt.
Asclepias hirtella (Pennell) Woodson
A. incarnata L.
A. purpurascens L.
A. quadrifolia Jacq.
A. syriaca L.
A. tuberosa L.
A. verticillata L.
 BALSAMINACEAE
Impatiens biflora Walt.
I. pallida Nutt.
 BERBERIDACEAE
Berberis thunbergii DC. *
 BETULACEAE
Betula nigra L.
Carpinus caroliniana Walt.
Corylus americana Walt.
Ostrya virginiana (Mill.) Koch
 BIGNONIACEAE
Campsis radicans (L.) Seem.
Catalpa bignonioides Walt. *
 BORAGINACEAE
Cynoglossum officinale L. X*
Hackelia virginiana (L.) I. M. Johnst.
Lithospermum canescens (Michx.) Lehm.
Mertensia virginica (L.) Pers.
Myosotis virginica (L.) BSP.
Onosmodium hispidissimum Mack.
 CAMPANULACEAE
Campanula americana L.
Specularia perfoliata (L.) *
 A. DC.
 CANNABINACEAE
Humulus americanus Nutt.
 CAPPARIDACEAE
Cleome spinosa L. #*
Polanisia dodecandra (L.) DC.
 CAPRIFOLIACEAE
Lonicera bella Zabel #*
L. prolifera (Kirchn.) Rehd.
L. xylosteum L. #*
Sambucus canadensis L.
Symphoricarpos orbiculatus Moench
Triosteum aurantiacum Bickn.
T. perfoliatum L.
Viburnum lantana L. #*
V. opulus L. #*
V. prunifolium L.
V. rafinesquianum Schultes
V. recognitum Fern.
V. trilobum Marsh. #

CARYOPHYLLACEAE
Cerastium nutans Raf.
C. vulgatum L. *
Dianthus armeria L. *
Lychnis alba Mill. *
Saponaria officinalis L. *
Silene antirrhina L.
S. noctiflora L. *
S. stellata (L.) Ait. f.
S. virginica L.
Stellaria media (L.) Vill. *
 CELASTRACEAE
Celastrus scandens L.
Euonymus alatus Sieb. #*
E. atropurpureus Jacq.
 CERATOPHYLLACEAE
Ceratophyllum demersum L.
 CHENOPODIACEAE
Chenopodium album L. *
C. ambrosioides L. *
C. boscianum Moq.
C. hybridum L. *
C. pratericola Rydb. *
 CISTACEAE
Lechea tenuifolia Michx.
 COMPOSITAE
Achillea millefolium L. *
Ambrosia artemisiifolia L.
A. trifida L.
Antennaria neglecta Greene
A. plantaginifolia (L.) Hook.
Anthemis cotula L. *
Arctium minus (Hill) Bernh. *
Artemisia annua L. *
Aster azureus Lindl.
A. cordifolius L.
A. drummondii Lindl.
A. exiguus (Fern.) Rydb.
A. laevis L.
A. lateriflorus (L.) Britt.
A. novae-angliae L.
A. oblongifolius Nutt.
A. ontarionis Wieg.
A. pilosus Willd.
A. praealtus Poir. X
A. sagittifolius Wedem.
A. simplex Willd.
A. turbinellus Lindl.
Bidens aristosa (Michx.) Britt.
B. bipinnata L.
B. cernua L.
B. comosa (Gray) Wieg.
B. frondosa L.
B. polylepis Blake
B. vulgata Greene
Cacalia atriplicifolia L. X

- C. muhlenbergii (Sch.-Bip.) Fern. X
Chrysanthemum leucanthemum L. *
Cichorium intybus L. *
Cirsium altissimum (L.) Spreng.
C. discolor (Muhl.) Spreng.
C. vulgare (Savi) Tenore *
Coreopsis palmata Nutt.
Echinacea pallida Nutt.
E. purpurea (L.) Moench
Eclipta alba (L.) Hassk.
Erechtites hieracifolia (L.) Raf.
Erigeron annuus (L.) Pers.
E. canadensis L.
E. divaricatus Michx.
E. philadelphicus L.
E. strigosus Muhl.
Eupatorium altissimum L.
E. perfoliatum L.
E. purpureum L.
E. rugosum Houtt.
E. serotinum Michx.
Galinsoga ciliata (Raf.) Blake *
Gnaphalium obtusifolium L.
Grindelia squarrosa (Pursh) Dunal *
Helenium autumnale L.
Helianthus annuus L. *
H. grosseserratus Martens
H. hirsutus Raf.
H. strumosus L.
H. tomentosus Michx.
Heliopsis helianthoides (L.) Sweet
Hieracium scabrum Michx.
Iva ciliata Willd.
Krigia biflora (Walt.) Blake
Kuhnia eupatorioides L.
Lactuca canadensis L.
L. floridana (L.) Gaertn.
L. scariola L. *
Liatris aspera Michx.
L. cylindracea Michx.
Matricaria matricarioides (Less.)
Porter *
Parthenium integrifolium L.
Polymnia canadensis L.
Preanthes alba L.
Ratibida pinnata (Went.) Barnh.
Rudbeckia hirta L.
R. subtomentosa Pursh
R. triloba L.
Senecio pauperculus Michx.
S. plattensis Nutt.
Silphium integrifolium Michx.
S. laciniatum L.
S. perfoliatum L.
Solidago altissima L.
- S. gigantea Ait.
S. glaberrima Martens
S. juncea Ait.
S. latifolia L.
S. nemoralis Ait.
S. rigida L.
S. ulmifolia Nutt.
Sonchus oleraceus L. *
Taraxacum erythrospermum Andrs. *
T. officinale Wiggers *
Verbesina alternifolia (L.) Britt.
Vernonia missurica Raf.
Xanthium chinense Mill.
X. commune Britt.
- CONVOLVULACEAE
- Convolvulus americanus (Sims.)
Greene
Cuscuta gronovii Willd.
Ipomaea hederacea Jacq. *
I. pandurata (L.) G. F. W. Mey.
- CORNACEAE
- Cornus drummondii C. A. Mey.
C. obliqua Raf.
- CRASSULACEAE
- Sedum sarmentosum Bunge *
S. triphyllum (Haw.) S. F. Gray *
- CRUCIFERAE
- Arabis canadensis L.
A. laevigata (Muhl.) Poir.
A. pycnocarpa Hopkins
A. shortii (Fern.) Gleason
Armoracia rusticana (L.) Gaertn. *
Barbarea vulgaris R. Br. *
Capsella bursa-pastoris (L.) *
Medic
Cardamine pensylvanica Muhl.
Dentaria laciniata Muhl.
Descourainia brachycarpa (Richards)
O. E. Schulz
Draba reptans (Lam.) Fern.
Lepidium campestre (L.) R. Br. *
L. densiflorum Schrad. *
L. virginicum L.
Rorippa islandica (Oeder) Borbas
R. sessiflora (Nutt.) Hitchc.
Sisymbrium officinale (L.) Scop. *
Thlaspi arvense L. *
- CUCURBITACEAE
- Sicyos angulatus L.
- ELAEAGNACEAE
- Elaeagnus angustifolia L. *
E. umbellata Thunb. **
Shepherdia argenta Nutt. **
S. canadensis (L.) Nutt. #

ERICACEAE

Monotropa uniflora L.

EUPHORBIACEAE

Acalypha rhomboidea Raf.A. virginica L.Chamaesyce maculata (L.) SmallC. supina (Raf.) MoldenkeCroton glandulosus L. *Euphorbia corollata L.Poinsettia dentata (Michx.) Small *

FAGACEAE

Castanea mollissima Blume #*Quercus alba L.Q. bicolor Willd.Q. imbricaria Michx.Q. macrocarpa Michx.Q. marilandica Muenchh.Q. muhlenbergii Engelm.Q. rubra L.Q. stellata Wang.Q. velutina Lam.

FUMARIACEAE

Corydalis flavula (Raf.) DC.Dicentra canadensis (Goldie) Walp.D. culcullaria (L.) Bernh.

GENTIANACEAE

Sabatia angularis (L.) Pursh

GERANIACEAE

Geranium carolinianum L.G. maculatum L.

GROSSULARIACEAE

Ribes missouriense Nutt.

HIPPOCASTANACEAE

Aesculus glabra Willd.A. octandra Marsh. #*

HYDRANGEACEAE

Hydrangea paniculata Sieb. #*Philadelphicus inodorus L. #*P. pubescens Loisel. #

HYDROPHYLLACEAE

Ellisia nyctelea L.Hydrophyllum appendiculatum Michx.H. virginianum L.

HYPERICACEAE

Hypericum perforatum L. *H. punctatum Lam.H. sphaerocarpum Michx.

ILLECEBRACEAE

Paronychia canadensis (L.) Wood.P. fastigata (Raf.) Fern.

JUGLANDACEAE

Carya cordiformis (Wang.) K. KochC. ovata (Mill.) K. KochC. tomentosa (Poir.) Nutt.Juglans nigra L.

LABIATAE

Agastache nepetoides (L.) Ktze.Blephilia ciliata (L.) Benth.Glechoma hederacea L. *Hedeoma hispida PurshH. pulegioides (L.) Pers.Isanthus brachiatus (L.) BSP.Leonurus cardiaca L. *Lycopus americanus Muhl.L. virginicus L.Mentha canadensis L. X (as M.arvensis var. glabrata (Benth.)

Fernald)

Monarda fistulosa L.Nepeta cataria L. *Prunella vulgaris L. *Pycnanthemum pilosum Nutt.P. virginianum (L.) Dur. & Jacks.Scutellaria lateriflora L.S. ovata HillS. parvula Michx.Stachys hispida PurshS. tenuifolia Willd.Teucrium canadense L.

LAURACEAE

Sassafras albidum (Nutt.) Nees

LEGUMINOSAE

Amorpha canescens PurshA. fruticosa L.Amphicarpa comosa (L.) G. DonApios americana Medic.Baptisia leucantha T. & G.B. leucophaea Nutt.Cassia fasciculata Michx.C. marilandica L.Cercis canadensis L.Coronilla varia L. #*Desmodium canescens (L.) DC. XD. cuspidatum (Muhl.) Loud. XD. glabellum (Michx.) DC.D. glutinosum (Muhl.) WoodD. longifolium (T. & G.) SmythD. nudiflorum (L.) DC.D. paniculatum (L.) DC.D. rigidum (Ell.) DC.D. sessifolium (Torr.) T. & G.Gleditsia triacanthos L.Glycine max (L.) Merr. *Gymnocladus dioica (L.) K. KochLespedeza capitata Michx.L. stipulacea Maxim. *L. violacea (L.) Pers.L. virginica (L.) Britt.Medicago lupulina L. *M. sativa L. *Melilotus alba Desr. *

- M. officinalis (L.) Lam. *
- Petalostemum candidum (Willd.) Michx.
- P. purpureum (Vent.) Rydb.
- Psoralea onobrychis Nutt.
- P. tenuiflora Pursh
- Robinia pseudoacacia L.
- Sophora japonica L. #*
- Strophostyles helvola (L.) Britt.
- S. leiosperma (T. & G.) Piper
- Tephrosia virginiana (L.) Pers.
- Trifolium hybridum L. *
- T. pratense L. *
- T. procumbens L. *
- T. repens L. *
- LINACEAE
- Linum sulcatum Riddell
- LOBELIACEAE
- Lobelia inflata L.
- L. siphilitica L.
- L. spicata Lam.
- LYTHRACEAE
- Ammannia auriculata Willd.
- A. coccinea Rottb.
- Cuphea petiolata (L.) Koehne
- Rotala ramosior (L.) Koehne
- MAGNOLIACEAE
- Magnolia soulangeana Soul. #*
- M. stellata Maxim. #*
- MALVACEAE
- Abutilon theophrasti Medic. *
- Althaea rosea (L.) Cav. #*
- Hibiscus trionum L. *
- Malva neglecta Wallr. *
- Sida spinosa L. *
- MENISPERMACEAE
- Menispermum canadense L.
- MORACEAE
- Maclura pomifera (Raf.) Schneid. *
- Morus alba L. *
- M. rubra L.
- M. tatarica L. *
- NYCTAGINACEAE
- Mirabilis nyctaginea (Michx.) MacM.
- OLEACEAE
- Forsythia viridissima Lindl. #*
- Fraxinus americana L.
- F. lanceolata Borkh.
- F. nigra Marsh.
- F. pennsylvanica Marsh.
- F. quadrangulata Michx.
- Ligustrum vulgare L. #*
- Syringa vulgaris L. #*
- ONAGRACEAE
- Circaea latifolia Hill
- Oenothera biennis L.
- O. laciniata Hill
- OXALIDACEAE
- Oxalis dillenii Jacq.
- O. stricta L.
- O. violacea L.
- PAPAVERACEAE
- Sanguinaria canadensis L.
- PENTHORACEAE
- Penthorum sedoides L.
- PHRYMACEAE
- Phryma leptostachya L.
- PHYTOLACCACEAE
- Phytolacca americana L.
- PLANTAGINACEAE
- Plantago artistata Michx.
- P. lanceolata L. *
- P. rugelii Dcne.
- P. virginica L.
- PLATANACEAE
- Platanus occidentalis L.
- PODOPHYLLACEAE
- Caulophyllum thalictroides (L.) Michx. X
- Podophyllum peltatum L.
- POLEMONIACEAE
- Phlox divaricata L.
- P. paniculata L.
- Polemonium reptans L.
- POLYGALACEAE
- Polygala sanguinea L.
- P. senega L.
- P. verticillata L.
- POLYGONACEAE
- Fagopyrum esculentum Moench *
- Polygonum aviculare L. *
- P. convolvulus L. *
- P. erectum L.
- P. lapathifolium L. *
- P. pensylvanicum L.
- P. persicaria L. *
- P. punctatum Ell.
- P. scandens L.
- P. virginianum L.
- Rumex acetosella L. *
- R. altissimus Wood
- R. crispus L. *
- R. triangulivalvis (Danser) Rech. f.
- R. verticillatus L.
- PORTULACACEAE
- Claytonia virginica L.
- Portulaca oleracea L. *
- PRIMULACEAE
- Androsace occidentalis Pursh
- Lysimachia ciliata L.
- RANUNCULACEAE
- Actaea alba (L.) Mill.
- Anemone canadensis L.
- A. cylindrica Gray

A. virginiana L.
Anemonella thalictroides (L.) Spach
Aquilegia canadensis L.
Clematis pitcheri T. & G.
C. virginiana L.
Delphinium carolinianum Walt.
Hepatica acutiloba DC.
Isopyrum biternatum (Raf.) Torr.
Ranunculus abortivus L.
R. septentrionalis Poir.
Thalictrum dasycarpum Fisch. & Lall.

RHAMNACEAE

Ceanothus americanus L.
Rhamnus cathartica L. *
R. lanceolata Pursh

ROSACEAE

Agrimonia parviflora Ait.
A. pubescens Wallr.
Amelanchier arborea (Michx. f.)
Fern.

Aruncus dioicus (Walt.) Fern.
Chaenomeles lagenaria Koidz. **
Cotoneaster dielsiana Pritz. **
C. divaricata Rehd. & Wils. **
Crataegus crusgalli L.
C. mollis (T. & G.) Scheele
Fragaria chiloensis x virginiana
Duch.

F. virginiana Duch.
Geum canadense Jacq.
Malus ioensis (Wood) Britt.
M. pumila Mill. *
Potentilla monspeliensis L.
P. recta L. *
P. simplex Michx.
Prunus americana Marsh.
P. glandulosa Thunb. **
P. hortulana Bailey
P. institia L. X
P. lanata (Sudw.) Mack. & Bush
P. persica (L.) Batsch. *
P. serotina Ehrh.
P. virginiana L.
Pyrus communis L. *
Rosa carolina L.
R. eglanteria L. *
R. multiflora Thunb. *
R. setigera Michx.
Rubus allegheniensis Porter
R. flagellaris Willd.
R. idaeus L.
R. occidentalis L.
R. pennsylvanicus Poir.
Spiraea vanhouttei Zabel **

RUBIACEAE

Cephalanthus occidentalis L.
Galium aparine L.
G. circaezans Michx.
G. concinnum T. & G.
G. triflorum Michx.

RUTACEAE

Phellodendron amurense Rupr. **
Zanthoxylum americanum L.

SALICACEAE

Populus deltoides Marsh.
Salix amygdaloides Anders.
S. interior Rowlee
S. nigra Marsh.

SANTALACEAE

Comandra umbellata (L.) Nutt.

SAXIFRAGACEAE

Heuchera hirsuticaulis (Wheelock)
Rydb.

H. richardsonii R. Br.

SCROPHULARIACEAE

Aureolaria grandiflora (Benth.)

Pennell

Chaenorrhinum minus (L.) Lange *
Dasistoma macrophylla (Nutt.) Raf.
Gerardia gattingeri Small
G. skinneriana Wood. X
G. tenuifolia Vahl.
Gratiola neglecta Torr.
Leucospora multifida (Michx.) Nutt.
Lindernia dubia (L.) Pennell
Mimulus alatus Ait.
M. ringens L.
Penstemon pallidus Small
Scrophularia marilandica L.
Verbascum blattaria L. *
V. thapsus L. *
Veronica arvensis L. *
V. peregrina L.
Veronicastrum virginicum (L.) Farw.

SIMARUBACEAE

Ailanthus altissima (Mill.) Swingle X*

SOLANACEAE

Datura stramonium L. *
Lycopersicon esculentum Mill. *
Petunia axillaris BSP *
Physalis heterophylla Nees
P. pubescens L.
P. subglabrata Mack. & Bush
Solanum nigrum L.
S. carolinense L.

STAPHYLEACEAE

Staphylea trifoliata L.

TILIACEAE

Tilia americana L.

ULMACEAE

Celtis occidentalis L.Ulmus americana L.U. rubra Muhl.

UMBELLIFERAE

Chaerophyllum procumbens (L.)

Crantz.

Cicuta maculata L.Conium maculatum L. *Cryptotaenia canadensis (L.) DC.Daucus carota L. *Osmorhiza claytonii (Michx.) ClarkeO. longistylis (Torr.) DC.Pastinaca sativa L. *Sanicula canadensis L.S. gregaria Bickn.Taenidia integerrima (L.) DrudeThaspium barbinode (Michx.) Nutt.Zizia aurea (L.) Koch

URTICACEAE

Boehmeria cylindrica (L.) Sw.Laportea canadensis (L.) Gaud.Parietaria pennsylvanica Muhl.Pilea pumila (L.) GrayUrtica gracilis Ait.

VERBENACEAE

Phyla lanceolata (Michx.) GreeneVerbena bracteata Lag. & Rodr.V. hastata L.V. stricta Vent.V. urticifolia L.

VIOLACEAE

Viola eriocarpa Schw.V. incognita BrainerdV. missouriensis GreeneV. papilionacea PurshV. pedata L.V. rafinesquii GreeneV. sororia Willd.

VITACEAE

Ampelopsis cordata Michx.Parthenocissus quinquefolia (L.)

Planch.

Vitis aestivalis Michx. XV. cinerea Engelm.V. riparia Michx.V. vulpina L.

Class Monocotyledoneae

AMARYLLIDACEAE

Hypoxis hirsuta (L.) CovilleNarcissus jonquilla Jonquil #*N. poeticus L. #*

ARACEAE

Arisaema dracontium (L.) Schott.A. triphyllum (L.) Schott.

COMMELINACEAE

Commelina communis L.Tradescantia ohioensis Raf.

CYPERACEAE

Carex albursina SheldonC. blanda DeweyC. brevior (Dewey) Mack.C. cephalophora Muhl.C. conjuncta BoottC. convoluta Mack.C. davisii Schw. & Torr.C. festucea Schk.C. gracilescens Steud.C. granularis Muhl.C. grayii CareyC. grisea Wahl.C. hirsutella Mack.C. lupuliformis Sartw.C. muhlenbergii Schk.C. normalis Mack.C. pensylvanica Lam.C. shortiana DeweyC. tribuloides Wahl.C. vulpinoidea Michx.Cyperus erythrorhizos Muhl.C. ferruginescens Boeck.C. filiculmis Vahl.C. strigosus L.Eleocharis calva Torr.Scirpus atrovirens Willd.S. lineatus Michx.

DIOSCOREACEAE

Dioscorea villosa L.

GRAMINEAE

Agropyron repens (L.) Beauv. *Agrostis alba L. *A. hyemalis (Walt.) BSP.Andropogon furcatus Muhl.A. scoparius Michx.A. virginicus L.Aristida oligantha Michx.Avena sativa L. *Brachyelytrum erectum (Schreb.)

Beauv.

Bromus asper MurrayB. inermis Leyss. *B. japonicus Thunb. *B. purgans L.B. tectorum L. *Cenchrus pauciflorus Benth. *Cinna arundinacea L.Dactylis glomerata L. *

Danthonia spicata (L.) Beauv.
Diarrhena americana Beauv.
Digitaria ischaemum (Schreb.) *
 Schreb.
D. sanguinalis (L.) Scop. *
Echinochloa crusgalli (L.) Beauv. *
Eleusine indica (L.) Gaertn. *
Elymus canadensis L.
E. villosus Muhl.
E. virginicus L.
Eragrostis capillaris (L.) Nees
E. cilianensis (All.) Lut. *
E. hypnoides (Lam.) BSP.
E. pectinacea (Michx.) Nees
Festuca elatior L.
F. obtusa Bieler
F. octoflora Walt.
Glyceria septentrionalis Hitchc.
G. striata (Lam.) Hitchc.
Hordeum jubatum L.
H. pusillum Nutt.
Hystrix patula Moench
Leersia lenticularis Michx.
L. oryzoides (L.) Sw.
L. virginica Willd.
Lolium perenne L. *
Muhlenbergia frondosa (Poir.) Fern.
M. schreberi J. F. Gmel.
M. sobolifera (Muhl.) Trin.
M. sylvatica Torr.
Panicum capillare L.
P. clandestinum L.
P. depauperatum Muhl.
P. dichotomiflorum Michx.
P. huachucae Ashe
P. latifolium L.
P. lindheimeri Nash
P. linearifolium Scribn.
P. scribnerianum Nash
P. virgatum L.
Paspalum pubescens Muhl.
Phleum pratense L. *
Poa annua L. *
P. compressa L. *
P. pratensis L. *
P. sylvestris Gray
Setaria faberii Herm. *
S. lutescens (Wiegel.) F. T. Hubb. *
S. verticillata (L.) Beauv. *
S. viridis (L.) Beauv. *
Sorghastrum nutans (L.) Nash
Sporobolus asper (Michx.) Kunth
Tridens flavus (L.) Hitchc.
Triticum aestivum L. *
Zea mays L. *

IRIDACEAE

Belamcanda chinensis (L.) DC. #*
iris germanica L. #*
Sisyrinchium albidum Raf.
S. bermudiana L.
S. campestre Bickn.

JUNCACEAE

Juncus dudleyi Wieg.
J. interior Wieg.
J. secundus Beauv.
J. tenuis Willd.

LEMNACEAE

Lemma minor L.

LILIACEAE

Allium canadense L.
A. sativum L. *
A. vineale L. *
Asparagus officinalis L. *
Erythronium albidum Nutt.
Hemerocallis fulva L. *
Lilium michiganense Farw.
L. tigrinum Ker *
Ornithogalum umbellatum L. #*
Polygonatum commutatum (Schultes)
 Dietr.

Smilicina racemosa (L.) Desf.
Smilax ecirrhata (Engelm.) Wats.
S. hispida Muhl.
S. lasioneura Hook.
Trillium grandiflorum (Michx.)
 Salisb.
T. recurvatum Beck.
Uvularia grandiflora Sm.
Yucca filamentosa L. *

ORCHIDACEAE

Liparis lilifolia (L.) Rich.
Spiranthes cernua (L.) Rich.

POTAMOGETONACEAE

Potamogeton foliosus Raf.

TYPHACEAE

Typha angustifolia L.
T. latifolia L.

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