

A CHECK LIST OF THE VASCULAR PLANTS OF JO DAVIESS COUNTY, ILLINOIS

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Jo Daviess County is situated at the northwestern corner of the State of Illinois in an angle formed by the boundary of the State of Wisconsin and the Mississippi River, and is unique in possessing the highest elevations in the state. Its irregular topography proves that the greater part of the county shows no evidence of glaciation but some moranic deposits are found along a narrow strip of its eastern boundary. Isolated hills, capped by Niagara limestone over Maquoketa shale, are scattered through the county, the most notable being Charles Mound and Benton Mound rising to heights of 1246 and 1226 feet respectively. The bluffs of the Mississippi River are more than 150 feet high while the secondary streams, flowing in a general southwesterly direction, have cut their channels deeply into the underlying limestone forming cliffs and canyons of considerable size. Those of the Galena and Apple Rivers are most notable.

These topographic features have provided a great variety of habitats for a particularly rich and varied flora. Among these habitats the following are noteworthy: the terraces of the Mississippi with its sand ridges, its sand prairies, and its alluvial flood plains; the river bluffs and limestone cliffs; the Apple River Canyon with its dripping banks; the rolling hillsides with its upland forests; the non-glaciated plains with its high prairies (now occupied by pastures and corn-

fields); the glaciated plains with its low prairies and swamps; the mounds with their dry hill tops; and the right of way of the railroads with its ruderals and its introduced plants all provide space for a flora of well above 1200 species.

The late Dr. H. S. Pepoon, whose boyhood was spent in this county, made the vegetation of the area familiar to the people of the state in several publications (1). He was largely instrumental in getting a portion of the picturesque valley of the Apple River set aside as the Apple River State Park. He made many collecting trips through all parts of the county, during both his earlier and his later years. Unfortunately, his herbarium was destroyed by fire, but he kept detailed notes of his trips and his notebooks have been preserved. These have been made available through the courtesy of his daughter, Mrs. M. W. Buckley, and have been used in compiling this check list. Pepoon's compilation seems to have been made about 1920 and apparently contains all his collections including the earliest. Doubtless some of the rare original species, not noted in recent years, have disappeared with the clearing of the forests and with the cultivation of the prairies.

The species in this list have been checked against specimens in the herbarium of the University of Illinois at Urbana collected by Pepoon, Umbach, Moffatt, Jones and others, and against those collected by the

writer in the herbarium of the Illinois State Museum at Springfield. All in the Pepon list have been found in these herbaria with the exception of those followed by an asterisk (*).

The order of the families and genera and the nomenclature, with a very few exceptions, are those of the recently published *Flora of Illinois* by G. N. Jones (2).

Ophioglossaceae

Botrychium obliquum Muhl.
Botrychium virginianum (L.) Sw.

Osmundaceae

Osmunda claytoniana L.

Polypodiaceae

Woodsia obtusa (Spreng.) Torr.
Cystopteris bulbifera (L.) Bernh.
Cystopteris fragilis (L.) Bernh.
Pteritis nodulosa (Michx.) Nieuwl.
Onoclea sensibilis L.
Dryopteris hexagonoptera (Michx.) C. Ch.
Dryopteris noveboracensis (L.) Gray
Dryopteris thelypteris var. *pubescens* (Lawson) Prince
Dryopteris marginalis (L.) Gray
Dryopteris spinulosa (Muell.) Watt.
Polystichum acostichoides (Michx.) Schott.
Athyrium angustum (Willd.) Presl.
Athyrium pycnocarpon (Spreng.) Tidestr.
Athyrium thelypteroides (Michx.) Desv.
Camptosorus rhizophyllus (L.) Link
Pellaea glabella Mett.
Cheilanthes feei Moore
Pteridium aquilinum (L.) Kunh.
Cryptogramma stelleri (Gmel.) Prantl.
Adiantum pedatum L.

Equisetaceae

Equisetum arvense L.
Equisetum fluvatile L.*
Equisetum laevigatum A. Br.
Equisetum prealtum Raf.
Equisetum scirpoides Michx.*
Equisetum variegatum Schleich.

Lycopodiaceae

Selaginella apoda (L.) Fern.*
Selaginella rupestris (L.) Spreng.

Isoetaceae

Isoetes melanopoda J. Gay.*

Taxaceae

Taxus canadensis Marsh.

Pinaceae

Pinus strobus L.
Juniperus communis L. var. *depressa* Pursh
Juniperus virginiana L.

Typhaceae

Typha latifolia L.

Sparganiaceae

Sparganium americanum Nutt.
Sparganium androcladum (Engelm.) Morong.
Sparganium eurycarpum Engelm.

Potamogetonaceae

Potamogeton americanus C. & S.
Potamogeton amplifolius Tuck.
Potamogeton foliosus Raf.*
Potamogeton friesii Rupr.*
Potamogeton lucens L.
Potamogeton natans L.
Potamogeton pectinatus L.
Potamogeton praelongus Wulf.*
Potamogeton pusillus L.*
Potamogeton zosteriformis Fern.

Najadaceae

Najas flexilis (Willd.) R. & S.*

Alismaceae

Alisma subcordatum Raf.
Lophotocarpus calycinus (Engelm.) Sm.*
Sagittaria latifolia Willd.
Sagittaria rigida Pursh*

Hydrocharitaceae

Anacharis canadensis (Michx.) Planch.

Gramineae

Bromus ciliatus L.
Bromus commutatus Schrad.
Bromus inermis Leyss
Bromus kalmii Gray
Bromus purgans L.
Bromus racemosus Schrad.*
Bromus secalinus L.*
Bromus tectorum L.
Festuca elatior L.*
Festuca obtusa Spreng.
Festuca octoflora Walt.
Festuca ovina L.*
Glyceria borealis (Nash.) Batch.*
Glyceria grandis Wats.
Glyceria septentrionalis Hitchc.
Glyceria striata (Lam.) Hitchc.
Poa annua L.
Poa chapmaniana Scribn.*
Poa compressa L.
Poa debilis Torr.*

- Poa palustris* L.
Poa pratensis L.
Poa sylvestris Gray
Eragrostis capillaris (L.) Nees.
Eragrostis cilianensis (All.) Link
Eragrostis frankii Meyer
Eragrostis hypnoides (Lam.) BSP.
Eragrostis pectinacea (Michx.) Nees.
Eragrostis pilosa (L.) Beauv.*
Eragrostis spectabilis (Pursh) Steud.
Diarrhena americana Beauv.
Dactylis glomerata L.
Phragmites communis Trin.
Melica mutica Walt.
Triodia flava (L.) Smyth
Triplasis purpurea (Walt.) Chapm.*
Agropyron caninum (L.) Beauv.*
Agropyron pauciflorum (Schw.) Hitchc.*
Agropyron repens (L.) Beauv.
Agropyron smithii Rydb.
Elymus canadensis L.
Elymus villosus Muhl.
Elymus virginicus L.
Hystrix patula Moench.
Hordeum jubatum L.
Koeleria cristata (L.) Pers.
Sphenopholis intermedia Rydb.
Sphenopholis obtusata (Michx.) Scribn.
Deschampsia caespitosa (L.) Beauv.
Avena fatua L.*
Danthonia spicata (L.) Beauv.
Calamagrostis canadensis (Michx.) Beauv.
Calamagrostis inexpansa Gray
Calamovilfa longifolia (Hook.) Scribn.
Agrostis alba L.
Agrostis hiemalis (Walt.) BSP.
Agrostis perennans (Walt.) Tuck.
Cinna arundinacea L.
Cinna latifolia (Trev.) Griseb.*
Alopecurus aequodlis Sobol.*
Alopecurus geniculatus L.
Phleum pratense L.
Muhlenbergia foliosa (R. & S.) Trin.
Muhlenbergia mexicana (L.) Trin.
Muhlenbergia schreberi Gmel.
Muhlenbergia sylvatica Torr.
Muhlenbergia tenuiflora (Willd.) BSP.
Sporobolus clandestinus (Spreng.) Hitchc.*
Sporobolus cryptandrus (Torr.) Gray
Sporobolus heterolepsis Gray
Sporobolus neglectus Nash.
Sporobolus vaginiflorus (Torr.) Wood*
Brachelytrum erectum (Schreb.) Beauv.
Oryzopsis asperifolia Michx.
Oryzopsis asperifolia Michx.
Oryzopsis racemosa (Sm.) Ricker
Stipa spartea Trin.
Aristida basiramea Engelm.*
Aristida dichotoma Michx.
Aristida oligantha Michx.
Aristida purpurascens Poir.
Aristida ramosissima Engelm.*
Aristida tuberculosa Nutt.
Eleusine indica Gaertn.
Spartina pectinata Link
Bouteloua curtipendula (Michx.) Torr.
Bouteloua gracilis (HBK.) Torr.
Bouteloua hirsuta Lag.
Hierochloa odorata (L.) Beauv.*
Phalaris arundinacea L.
Phalaris canariensis L.*
Leersia lenticularis Michx.
Leersia oryzoides (L.) Sw.
Leersia virginica Willd.*
Digitaria ischaemum (Schreb.) Muhl.
Digitaria sanguinalis (L.) Scop
Leptoloma cognatum (Schult.) Chase
Paspalum stramineum Nash.
Panicum agrostoides L.*
Panicum boscii Poir.
Panicum capillare L.
Panicum clandestinum L.
Panicum depauperatum Muhl.*
Panicum dichotomum L.
Panicum dichotomiflorum Michx.
Panicum huachucae Ashe
Panicum implicatum Scribn.*
Panicum latifolium L.
Panicum leibergii (Vasey) Scribn.
Panicum miliaceum L.
Panicum perlongum L.*
Panicum pseudopubescens Nash.
Panicum scribnerianum Nash.
Panicum tennesseense Ashe*
Panicum verrucosum Muhl.*
Panicum villosissimum Nash.
Panicum virgatum L.
Panicum wilcoxianum Vasey*
Echinochloa crus-galli (L.) Beauv.
Echinochloa walter (Pursh) Heller*
Setaria italica L.*
Setaria lutescens (Weigel) Hubb
Setaria verticillata (L.) Beauv.*
Setaria viridis (L.) Beauv.
Cenchrus longispinus (Hack.) Fern.
Andropogon furcatus Muhl.
Andropogon scoparius Michx.
Sorghastrum nutans (L.) Nash.

Cyperaceae

- Cyperus aristatus* Roth
Cyperus diandrus L.
Cyperus esculentus L.*
Cyperus engelmannii Steud.
Cyperus erythrorhizos Muhl.*
Cyperus ferruginescens Boeckl.*
Cyperus filiculmis Vehl.
Cyperus rivularis Kunth.
Cyperus schweinitzii Torr.
Cyperus strigosus L.
Dulichium arundinaceum (L.) Britt.
Eleocharis acicularis (L.) R. & S.*
Eleocharis engelmannii Steud.*

Eleocharis equisetoides (Ell.) Torr.*
Eleocharis internedia (Muhl.) Schult.*
Eleocharis obtusa (Willd.) Schult.
Eleocharis ovata (Roth.) R. & S.
Eleocharis palustris (L.) R. & S.
Eleocharis quadrangulata (Michx.)

R. & S.

Eleocharis tenuis (Willd.) Schult.
Bulbostylis capillaris (L.) Clarke
Hemicarpha micrantha (Vahl.) Britt.
Fimbristylis autumnalis (L.) R. & S.
Scirpus americanus Pers.
Scirpus atrovirens Muhl.
Scirpus cyperinus (L.) Knuth.
Scirpus debilis Pursh*
Scirpus fluviatilis (Torr.) Gray*
Scirpus lineatus Michx.
Scirpus polyphyllus Vahl.
Scirpus validus Vahl.
Eriophorum angustifolium Roth.*
Rhynchospora alba (L.) Vahl.*

Carex aggregata Mack.
Carex albursina Boott.
Carex aquatilis Wahl.*
Carex artitecta Mack.
Carex aurea Nutt.
Carex bicknellii Britt.*
Carex blanda Dewey
Carex brunnescens Poir.
Carex cephaloidea Dewey
Carex cephalophora Muhl.*
Carex communis Bailey*
Carex comosa Boott.
Carex crinita Lam.*
Carex cristatella Britt.*
Carex davisii Schw.
Carex debilis Michx.
Carex disperma Dewey*
Carex eburnea Boott.
Carex festucacea Schk.
Carex filiformis L.
Carex foenae Willd.
Carex gracillima Schw.
Carex granularis Muhl.*
Carex gravida Bailey
Carex grisea Wahl.
Carex grayii Carey
Carex hirtifolia Mack.*
Carex hystericina Muhl.
Carex interior Bailey*
Carex intumescens Rudge
Carex jamesii Schw.*
Carex lanuginosa Michx.
Carex laxiflora Lam.
Carex laptalea Wahl.*
Carex longirostris Torr.
Carex lupulina Muhl.
Carex lurida Wahl.
Carex meadii Bailey*
Carex muskingumensis Schw.
Carex muhlenbergii Schw.
Carex oligocarpa Scht.
Carex pedunculata Muhl.
Carex pennsylvanica L.

Carex plantaginea Lam.
Carex prairea Dewey*
Carex pubescens Muhl.
Carex retrorsa Schw.
Carex rosea Schk.
Carex sartwellii Dewey*
Carex scoparia Schk.
Carex springellii Dewey*
Carex stipata Muhl.
Carex straminea Willd.
Carex stricta Lam.
Carex suberecta (Olney) Britt.*
Carex tenera Dewey
Carex tetanica Schk.*
Carex torta Boott.*
Carex tribuloides Wahl.
Carex tuckermanni Dewey*
Carex varia Muhl.
Carex virescens Muhl.
Carex vulpinoidea Michx.

Araceae

Arisaema atrorubens (Ait.) Blume
Arisaema dracontium (L.) Schott.
Symplocarpus foetidus (L.) Nutt.
Acorus calamus L.

Lemnaceae

Lemna minor L.
Lemna perpusilla Torr.*
Lemna trisulca L.
Spirodela polyrhiza (L.) Schleid.
Wolffia columbiana Karst.

Commelinaceae

Commelina communis L.
Commelina virginica L.
Tradescantia canaliculata Raf.
Tradescantia virginiana L.

Pontederiaceae

Pontederia cordata L.
Heteranthera dubia (Jacq.) MacD.
Juncus acuminatus Michx.
Juncus balticus var. *littoralis* Engelm.
Juncus buffonius L.*
Juncus canadensis J. Gay
Juncus interior Wieg.*
Juncus macer S. F. Gray
Juncus nodosus L.
Juncus secundus Beauv.*
Juncus vasey Engelm.*
Luzula multiflora (Ehrh.) Lej.

Liliaceae

Zigadenus glaucus Nutt.
Hemoroallis fulva L.
Allium canadense L.
Allium cernuum Roth.
Allium stellatum Ker.
Allium tricoccum Ait.
Lilium michiganense Farw.
Lilium umbellatum Pursh
Erythronium albidum Nutt.

Erythronium americanum Ker.*
 Camassia scilloides (Raf.) Cory
 Asperagus officinalis L.
 Smilacina racemosa (L.) Desf.
 Smilacina stellata (L.) Desf.
 Maianthemum canadense var. interius
 Fern.
 Polygonatum biflorum (Walt.) Ell.
 Polygonatum pubescens (Willd.) Pursh
 Uvularia grandiflora Sm.
 Uvularia sessilifolia L.*
 Trillium gleasoni Fern.
 Trillium recurvatum Beck.
 Trillium sessile L.*
 Smilax ecirrhata (Engelm.) Wats.
 Smilax herbacea L.
 Smilax hispida Muhl.
 Smilax rotundifolia L.

Dioscoreaceae

Dioscorea villosa L.

Amaryllidaceae

Hypoxis hirsuta (L.) Coville

Iridaceae

Iris shrevei Small
 Sisyrinchium albidum Raf.
 Sisyrinchium angustifolium Mill.
 Sisyrinchium graminoides Bickn.

Orchidaceae

Cypripedium candidum Muhl.*
 Cypripedium hirsutum Mill.
 Cypripedium reginae Walt.
 Orchis spectabilis L.
 Habenaria bracteata (Muhl.) R. Br.
 Habenaria clavellata (Michx.) Spreng.
 Habenaria flava (L.) Gray*
 Habenaria lacera (Michx.) R. Br.
 Habenaria leucophaea (Nutt.) Gray*
 Calopogon pulchellus (Salisb.) R. Br.
 Triphora trianthophora (Sw.) Rydb.
 Spiranthes gracilis (Bigel.) Beck.*
 Goodyera pubescens (Willd.) R. Br.*
 Liparis liliifolia (L.) Rich.
 Liparis loeselii (L.) Rich.*
 Aplectrum hyemale (Muhl.) Torr.
 Corallorrhiza maculatum Raf.

Saururaceae

Saururus cernuus L.

Salicaceae

Populus alba L.
 Populus deltoides Marsh.
 Populus grandidentata Michx.
 Populus tremuloides Michx.
 Salix amygaloides Anders.
 Salix bebbiana Sarg.
 Salix candida Fluegge.
 Salix cordata Muhl.
 Salix discolor Muhl.

Salix fragilis L.*
 Salix glaucophylla Bebb.
 Salix humilis Marsh.
 Salix interior Rowlee
 Salix lucida Muhl.
 Salix nigra Marsh.
 Salix pedicellaris Pursh.*
 Salix petiolaris Sm.
 Salix sericea Marsh.

Juglandaceae

Juglans cinerea L.
 Juglans nigra L.
 Carya cordiformis (Wang.) K. Koch.
 Carya glabra (Mill.) Sweet
 Carya illinoensis (Wang.) K. Koch.*
 Carya laciniosa (Michx. f.) Loud.
 Carya ovata (Mill.) K. Koch.

Betulaceae

Corylus americana Walt.
 Ostrya virginiana (Mill.) Koch.
 Carpinus caroliniana Walt.
 Betula lutea Michx. f.
 Betula nigra L.
 Betula papyrifera Marsh.

Fagaceae

Quercus alba L.
 Quercus bicolor Willd.
 Quercus borealis Michx. f.
 Quercus ellipsoidalis Hill.
 Quercus macrocarpa Michx.
 Quercus muhlenbergia Engelm.
 Quercus palustris Muench.*
 Quercus velutina Lam.

Ulmaceae

Ulmus americana L.
 Ulmus fulva Michx.
 Ulmus thomasi Sarg.
 Celtis occidentalis L.
 Morus rubra L.

Cannabinaceae

Cannabis sativa L.
 Humulus americanus Nutt.

Urticaceae

Urtica dioica L.*
 Urtica procera Muhl.
 Boehmeria cylindrica (L.) Sw.
 Pilea pumila (L.) Gray
 Laportea canadensis (L.) Gaud.
 Parietaria pennsylvanica Muhl.

Santalaceae

Comandra umbellata (L.) Nutt.

Aristolochiaceae

Asarum acuminatum (Ashe) Bickn.
 Asarum reflexum Bickn.

Polygonaceae

Rumex acetosella L.
Rumex altissimus Wood
Rumex britannica L.
Rumex crispus L.
Rumex obtusifolius L.
Rumex verticillatus L.
Polygonum aviculare L.
Polygonum dumetorum L.
Polygonum erectum L.*
Polygonum exsertum Small*
Polygonum hydropiper L.
Polygonum hypopiperoides Michx.
Polygonum lapathifolium L.
Polygonum orientale L.*
Polygonum pennsylvanicum L.
Polygonum persicaria L.
Polygonum punctatum Ell.
Polygonum scandens L.
Polygonum sagittatum L.
Polygonum tenue Michx.*
Polygonum virginianum L.
Polygonella articulata (L.) Meis.

Chenopodiaceae

Chenopodium album L.
Chenopodium ambrosioides L.*
Chenopodium botrys L.
Chenopodium capitatum L.
Chenopodium glaucum L.*
Chenopodium hybridum L.
Chenopodium pratericola Rydb.*
Chenopodium urbicum L.
Kochia scoparia (L.) Schrad.
Cycloloma atriplicifolium (Spreng.)
 Coult.
Atriplex hastata L.*
Atriplex patula L.
Coriospermum hyssopifolium L.
Salsola pestifer A. Nels.

Amaranthaceae

Amaranthus blitoides Wats.
Amaranthus graecaezans L.
Amaranthus hybridus L.
Amaranthus retroflexus L.
Amaranthus spinosus L.
Acnida altissima Riddell.
Acnida subnuda (Wats.) Stanley.*
Acnida tamariscina (Nutt.) Wood.*
Froelichia campestris Small.

Phytolaccaceae

Phytolacca americana L.

Nyctaginaceae

Oxybaphus linearis (Pursh) Rob.*
Oxybaphus nyctagineus (Michx.) Sweet

Illecebreaceae

Paronychia canadensis (L.) Wood
Paronychia fastigiata (Raf.) Fern.*

Aizoaceae

Mollugo verticillata L.

Portulacaceae

Talinum rugospermum Holz.
Claytonia virginica L.
Portulaca oleracea L.

Caryophyllaceae

Cerastium nutans Raf.
Cerastium vulgatum L.
Stellaria aquatica (L.) Scop.
Stellaria longifolia Muhl.
Stellaria media (L.) Cyril.
Arenaria lateriflora L.
Arenaria serpyllifolia L.
Arenaria stricta Michx.
Agrostemma githago L.
Silene antirrhina L.
Silene cucubalus Wibel.
Silene nivea (Nutt.) Oth.
Silene noctiflora L.
Silene stellata (L.) Ait.
Lychnis alba Mill.
Saponaria officinalis L.
Saponaria vaccaria L.*

Ranunculaceae

Caltha palustris L.
Hydrastis canadensis L.*
Isopyrum bitermum (Raf.) T. & G.
Aquilegia canadensis L.
Actaea alba (L.) Mill.
Actaea rubra (Ait.) Willd.
Ranunculus abortivus L.
Ranunculus acris L.*
Ranunculus fascicularis Muhl.
Ranunculus flabellaris Raf.*
Ranunculus hispidus Michx.
Ranunculus pennsylvanicus L. f.
Ranunculus recurvatus Poir.
Ranunculus repens L.
Ranunculus rhomboideus Goldie
Ranunculus sceleratus L.
Ranunculus septentrionalis Poir.
Ranunculus trichophyllus Chaix.
Thalictrum dasycarpum F. & L.
Thalictrum dioicum L.
Thalictrum revolutum DC.
Anemone canadensis L.
Anemone caroliniana Walt.*
Anemone cylindrica Gray
Anemone ludoviciana Nutt.
Anemone quinquefolia L.
Anemone virginiana L.
Anemonella thalictroides (L.) Spach.
Hepatica acutiloba DC.
Clematis virginiana L.

Nymphaeaceae

Nelumbo lutea (Willd.) Pers.
Nuphar advena Ait.
Nymphaea tuberosa Paine

*Ceratophyllaceae**Ceratophyllum demersum* L.*Berberidaceae**Berberis vulgaris* L.*Podophyllum peltatum* L.*Jeffersonia diphylla* (L.) Pers.*Caulophyllum thalictroides* (L.) Meek.*Menispermaceae**Menispermum canadense* L.*Lauraceae**Benzoin aestivale* (L.) Nees.*Papaveraceae**Sanguinaria canadensis* L.*Fumariaceae**Dicentra canadensis* (Goldie) Watts.**Dicentra cucullaria* (L.) Bernh.*Corydalis flavula* (Raf.) DC.*Corydalis micrantha* (Engelm.) Gray*Cruciferae**Brassica alba* L.*Brassica arvensis* (L.) Raben.*Brassica campestris* L.*Brassica juncea* (L.) Cosson.*Brassica nigra* (L.) Koch.*Barbarea vulgaris* R. Br.*Rorippa americana* (Gray) Britt.*Rorippa palustris* (L.) Bess.*Rorippa sessiflora* (Nutt.) Hitchc.*Sisymbrium altissimum* L.*Sisymbrium officinale* (L.) Scop.*Conringia orientalis* (L.) Dum.**Erysimum cheiranthoides* L.**Descurainia brachycarpa* (Rich.)
Schulz.*Draba verna* L.**Dentaria laciniata* Muhl.*Iodanthus pinnatifidus* (Michx.) Steud.*Cardamine bulbosa* (Schreb.) BSP.*Cardamine douglassii* (Torr.) Britt.*Cardamine pennsylvanica* Muhl.*Arabis canadensis* L.*Arabis confinis* Wats.*Arabis dentata* T. & G.*Arabis hirsuta* (L.) Scop.**Arabis laevigata* (Muhl.) Poir.*Arabis lyrata* L.*Arabidopsis thaliana* (L.) Heynh.**Nasturtium officinale* R. Br.*Armoracia aquatica* (Eaton) Wieg.**Armoracia rusticana* Gaertn.*Camelina microcarpa* Andrz.*Lepidium campestre* (L.) R. Br.*Lepidium virginicum* L.*Thlaspi arvense* L.*Capsella bursa-pastoris* (L.) Medic.*Capparidaceae**Polanisia graveolens* Raf.*Polanisia trachysperma* T. & G.*Cristatella jamesii* T. & G.**Crassulaceae**Penthorum sedoides* L.*Saxifragaceae**Heuchera hispida* Pursh*Mitella diphylla* L.*Mitella nuda* L.**Chrysosplenium americanum* Schw.**Sullivantia renifolia* Rosend.*Saxifraga Forbesii* Vasey*Saxifraga pennsylvanica* L.*Saxifraga virginiana* Michx.**Parnassia glauca* Raf.*Grossulariaceae**Ribes cynosbati* L.*Ribes floridum* L'Her.*Ribes missouriense* Nutt.*Ribes oxycanthoides* L.**Hamamelidaceae**Hamamelis virginiana* L.*Platanaceae**Platanus occidentalis* L.*Rosaceae**Physocarpus opulifolius* (L.) Maxim.*Spiraea alba* DuRoi.*Aruncus dioicus* (Walt.) Fern.*Fragaria americana* (Perter) Britt.*Fragaria virginiana* Duch.*Potentilla anserina* L.**Potentilla argentea* L.*Potentilla arguta* Pursh*Potentilla fruticosa* L.*Potentilla monspeliensis* L.*Potentilla palustris* (L.) Scop.*Potentilla recta* L.*Potentilla simplex* Michx.*Geum canadense* Jacq.*Geum laciniatum* Murr.**Geum strictum* Ait.*Geum triflorum* Pursh*Agrimonia gryposepala* Wallr.*Agrimonia parviflora* Ait.*Agrimonia striata* Michx.*Rubus allegheniensis* Porter*Rubus flagellaris* Willd.*Rubus occidentalis* L.*Rubus strigosus* Michx.*Rubus* spp.*Rosa blanda* Ait.*Rosa carolina* L.*Rosa eglanteria* L.**Rosa palustris* Marsh.*Rosa suffulta* Greene*Amelanchier arborea* (Michx. f.) Fern.*Amelanchier laevis* Wieg.*Pyrus communis* L.**Malus coronaria* (L.) Mill.*

Malus ioensis (Wood) Bailey
Malus pumila Mill.
Crataegus crus-galli L.
Crataegus microcarpa Ashe
Crataegus mollis (T. & G.) Scheele
Crataegus pruinosa (Wende.) K. Koch.
Crataegus punctata Jacq.
Crataegus spp.
Prunus americana Marsh.
Prunus lanata (Sudw.) M. & B.
Prunus nigra L.
Prunus pennsylvanica L.
Prunus serotina Ehrh.
Prunus virginiana L.

Leguminosae

Desmanthus illinoensis (Michx.) MacM.
Gymnocladus dioica (L.) K. Koch.
Gleditsia triacanthos L.
Cassia fasciculata Michx.
Cassia nictitans L.*
Baptisia leucantha T. & G.
Baptisia leucophaea Nutt.
Lupinus perennis L.
Trifolium arvense L.
Trifolium hybridum L.
Trifolium pratense L.
Trifolium procumbens L.
Trifolium repens L.
Melilotus alba Desr.
Melilotus officinalis (L.) Lam.
Medicago lupulina L.
Medicago sativa L.
Hosackia americana (Nutt.) Piper*
Psoralea tenuiflora Pursh
Amorpha canescens L.
Amorpha fruticosa L.
Dalea alopecuroides Willd.*
Petalostemum candidum Michx.
Petalostemum purpureum (Vent.) Rydb.
Tephrosia virginiana (L.) Pers.
Robinia pseudoacacia L.
Astragalus canadensis L.
Desmodium canadense (L.) DC.
Desmodium canescens (L.) DC.
Desmodium dillenii Darl.
Desmodium glutinosum (Muhl.) Wood
Desmodium illinoense Gray
Desmodium marilandicum (L.) DC.
Desmodium nudiflorum (L.) D. C.
Desmodium paniculatum (L.) DC.
Desmodium rigidum (Ell.) DC.*
Desmodium rotundifolium (Michx.) DC.*
Desmodium viridiflorum (L.) Beck.*
Lespedeza capitata Michx.
Lespedeza hirta (L.) Horn.
Lespedeza repens (L.) Bart.
Lespedeza violacea (L.) Britt.
Vicia americana Muhl.
Vicia cracca L.*
Vicia sativa L.

Vicia villosa L.
Lathyrus myritifolius Muhl.*
Lathyrus ochroleucus Hook.
Lathyrus palustris L.
Lathyrus venosus Muhl.
Apios americana Medic.
Strophostyles helvola (L.) Britt.
Strophostyles umbellata (Muhl.) Britt.*
Amphicarpa bracteata (L.) Fern.
Amphicarpa comosa (L.) G. Don.

Geraniaceae

Geranium carolinianum L.
Geranium maculatum L.
Geranium robertianum L.

Oxalidaceae

Oxalis corniculata L.
Oxalis cymosa Small
Oxalis grandis Small*
Oxalis stricta L.
Oxalis violacea L.

Linaceae

Linum sulcatum Riddell

Balsomaceae

Impatiens biflora Walt.
Impatiens pallida Nutt.

Limnanthaceae

Floerkea proserpinacoides Willd.

Rutaceae

Zanthoxylum americanum Mill.
Ptelea trifoliata L.

Simarubaceae

Ailanthus altissima (Mill.) Swingle

Polygalaceae

Polygala incarnata L.
Polygala polygama Walt.
Polygala sanguinea L.
Polygala senega L.
Polygala verticillata L.

Euphorbiaceae

Croton glandulosus L.
Acalypha gracillens Gray*
Acalypha virginica L.
Euphorbia commutata Engelm.
Euphorbia corollata Pursh
Euphorbia cyparissias L.
Euphorbia dentata Michx.
Euphorbia geyeri Engelm.
Euphorbia humistrata Engelm.*
Euphorbia hirsuta (Torr.) Wieg.*
Euphorbia maculata L.
Euphorbia polygonifolia L.
Euphorbia supina Raf.

Callitrichaceae

- Callitriche heterophylla* Pursh
Callitriche palustris L.*

Celastraceae

- Euonymus atropurpureus* Jacq.
Euonymus obovatus Nutt.*
Celastrus scandens L.

Anacardiaceae

- Rhus arenaria* (Greene) Jones
Rhus glabra L.
Rhus radicans L.
Rhus typhina L.

Staphyleaceae

- Staphylea trifolia* L.

Aceraceae

- Acer nigrum* Michx. f.
Acer negundo L.
Acer rubrum L.
Acer saccharum Marsh.
Acer saccharinum L.

Rhamnaceae

- Rhamnus lanceolata* Pursh
Ceanothus americanus L.
Ceanothus ovatus Desf.*

Vitaceae

- Vitis aestivalis* Michx.
Vitis riparia Michx.
Vitis vulpina L.
Parthenocissus quinquefolia (L.) Planch.

Tiliaceae

- Tilia americana* L.

Malvaceae

- Malva moschata* L.
Malva rotundifolia L.
Callirhoe triangulata (Leav.) Gray
Napaea dioica L.*
Sida spinosa L.
Abutilon theophrasti Medic.
Hibiscus militaris Cav.*

Hypericaceae

- Hypericum ascyron* L.
Hypericum canadense L.
Hypericum ellipticum Hook.*
Hypericum majus (Gray) Britt.*
Hypericum mutilum L.
Hypericum perforatum L.
Hypericum punctatum Lam.
Hypericum sphaerocarpum Michx.
Hypericum virginicum L.*

Cistaceae

- Hudsonia tomentosa* Nutt.
Helianthemum canadense (L.) Michx.

- Lechea minor* L.
Lechea stricta Legg.*
Lechea tenuifolia Michx.
Lechea villosa Ell.*

Violaceae

- Viola blanda* Willd.*
Viola canadensis L.
Viola conspersa Reich.*
Viola cucullata Ait.
Viola eriocarpa Schw.
Viola fimbriatula Sm.
Viola lanceolata L.*
Viola palmata L.
Viola papilionacea Pursh
Viola pedata L.
Viola pedatifida Don.*
Viola pubescens Ait.
Viola sagittata Ait.
Viola striata Ait.
Viola sororia Willd.

Cactaceae

- Opuntia rafinesquii* Engelm.

Thymeleaceae

- Dirca palustris* L.

Lythraceae

- Rotala ramosior* (L.) Koehne
Peplis diandra Nutt.*
Ammania coccinea Rottb.
Decodon verticillatus (L.) Ell.*
Lythrum alatum Pursh

Onagraceae

- Epilobium adenocaulon* Hauss.
Epilobium angustifolium L.
Epilobium coloratum Muhl.
Epilobium strictum Muhl.*
Ludwigia palustris (L.) Ell.
Ludwigia polycarpa S. & P.*
Oenothera biennis L.
Oenothera fruticosa L.
Oenothera laciniata Hill.
Oenothera muricata L.*
Oenothera pumila L.
Oenothera rhombipetala Nutt.
Oenothera speciosa Nutt.*
Gaura biennis L.
Circaea latifolia Hill
Circaea alpina L.*

Haloragidaceae

- Myriophyllum heterophyllum* Michx.
Myriophyllum verticillatum L.*
Proserpinaca palustris L.

Cornaceae

- Cornus alternifolia* L. f.
Cornus asperifolia Michx.
Cornus obliqua Raf.*
Cornus racemosa Lam.

Cornus rugosa Lam.
Cornus stolonifera Michx.

Araliaceae

Aralia nudicaulis L.
Aralia racemosa L.
Panax quinquefolia L.*

Umbelliferae

Eryngium yuccifolium Michx.
Daucus carota L.
Sanicula canadensis L.
Sanicula gregaria Bickn.
Sanicula marilandica L.
Sanicula trifoliata Bickn.*
Osmorhiza claytoni (Michx.) Clark
Osmorhiza longistylis (Torr.) DC.
Cryptotaenia canadensis (L.) DC.
Berula pusilla (Nutt.) Fern.*
Chaerophyllum procumbens (L.) Crantz.
Zizia aptera (Gray) Fern.
Zizia aurea (L.) Koch.
Taenidia integerrima (L.) Drude
Sium cicutaefolium Gmel.*
Cicuta bulbifera L.
Cicuta maculata L.
Thaspium sylvaticum (Benke) Jones
Thaspium barbinode (Michx.) Nutt.*
Polytaenia nuttallii DC.*
Angelica atropurpurea L.
Heracleum lanatum Michx.
Pastinaca sativa L.

Ericaceae

Chimaphila umbellata (L.) Nutt.*
Pyrola elliptica Nutt.
Pyrola secunda L.*
Monotropa uniflora L.
Arctostaphylos uva-ursi (L.) Spreng.*
Gaylussacia baccata (Wang.) K. Koch.

Primulaceae

Primula mistassinica Michx.
Lysimachia ciliata L.
Lysimachia lanceolata Walt.*
Lysimachia nummularia L.
Lysimachia quadriflora Sims.*
Lysimachia quadrifolia L.
Dodecatheon meadia L.

Oleaceae

Fraxinus americana L.
Fraxinus lanceolata Sarg.
Fraxinus nigra Marsh.
Fraxinus pennsylvanica Marsh.

Gentianaceae

Gentiana andrewsii Griseb.*
Gentiana crinita Froel.*
Gentiana flavida Gray
Gentiana puberula Michx.
Gentiana quinquefolia L.
Menyanthes trifoliata L.*

Apocynaceae

Apocynum androsaemifolium L.
Apocynum cannabinum L.
Apocynum pubescens R. Br.
Apocynum sibericum Jacq.*

Asclepiadaceae

Asclepias amplexicaulis Sm.
Asclepias incarnata L.
Asclepias phyto'accoides Pursh
Asclepias purpurascens L.
Asclepias sullivantii Engelm.*
Asclepias syriaca L.
Asclepias tuberosa L.
Asclepias verticillata L.
Acerates floridana (Lam.) Hitchc.
Acerates lanuginosa Nutt.
Acerates viridiflora (Raf.) Eaton*

Convolvulaceae

Convolvulus arvensis L.
Convolvulus sepium L.
Convolvulus spithameus L.
Cuscuta glomerata Choisy*
Cuscuta gronovii Willd.
Cuscuta spp.

Polemoniaceae

Phlox divaricata L.
Phlox glaberrima L.*
Phlox pilosa L.
Collomia linearis Nutt.
Polemonium reptans L.

Hydrophyllaceae

Hydrophyllum appendiculatum Michx.
Hydrophyllum canadense L.*
Hydrophyllum virginianum L.
Ellisia nyctelea L.

Boraginaceae

Cynoglossum officinale L.
Lappula echinata Gilib.*
Lappula virginiana (L.) Greene
Lithospermum angustifolium Michx.
Lithospermum arvense L.
Lithospermum canescens (Michx.)
 Lehm.
Lithospermum croceum Fern.
Lithospermum latifolium Michx.
Onosmodium occidentale Mack.*

Verbenaceae

Verbena hastata L.
Verbena simplex Lehm.*
Verbena stricta Vent.
Verbena urticaefolia L.
Phyla lanceolata (Michx.) Greene

Labiatae

Teucrium canadense L.
Teucrium occidentale Gray*
Isanthus brachiatus (L.) BSP.
Scutellaria ambigua Nutt.*

Scutellaria galericulata L.*
Scutellaria lateriflora L.
Scutellaria ovata Hill
Scutellaria parvula Michx.
Marrubium vulgare L.*
Agastache nepetoides (L.) Ktze.
Agastache scrophulariaefolia (Willd.) Ktze.
Nepeta cataria L.
Glechoma hederacea Benth.
Physostegia virginianum (L.) Benth.
Prunella vulgaris L.
Leonurus cardiaca L.
Leonurus marrubiastrum L.*
Stachys aspera Michx.
Stachys cordata Ridd.*
Stachys palustris L.
Stachys tenuifolia Willd.
Salvia reflexa Hornem.
Blephilia ciliata (L.) Raf.
Blephilia hirsuta (Pursh) Benth.
Monarda fistulosa L.
Monarda punctata L.
Hedeoma hispida Pursh
Hedeoma pulegioides (L.) Pers.
Clinopodium glabrum (Nutt.) Ktze.
Pycnanthemum flexuosum (Walt.) BSP.
Pycnanthemum pilosum Nutt.
Pycnanthemum virginianum (L.) D. & J.
Lycopus americanus Muhl.
Lycopus rubellus Moench.*
Lycopus uniflorus Michx.
Lycopus virginicus L.
Mentha arvensis L.
Mentha canadensis L.
Mentha citrata Ehrh.*
Mentha piperita L.
Mentha spicata L.

Solanaceae

Solanum carolinense L.
Solanum dulcamara L.
Solanum nigrum L.
Solanum rostratum Dunal
Physalis heterophylla Nees.
Physalis pubescens L.
Physalis subglabrata M. & B.
Physalis virginiana Mill.*
Datura stramonium L.

Scrophulariaceae

Verbascum thapsus L.
Chelone glabra L.
Penstemon hirsutus (L.) Willd.
Penstemon digitalis Nutt.
Penstemon pallidus Small*
Scrophularia lanceolata Pursh
Scrophularia marilandica L.
Linaria canadensis (L.) Dum.
Linaria vulgaris Mill.
Lindernia dubia (L.) Pennell
Gratiola virginiana L.*
Mimulus alatus Ait.
Mimulus geyeri Torr.*

Mimulus ringens L.
Veronicastrum virginicum (L.) Farw.
Veronica americana Schw.
Veronica anagallis-aquatica L.*
Veronica arvensis L.
Veronica peregrina L.
Veronica persica Poir.*
Veronica virginica L.
Synthyris bullii (Eaton) Hell.
Aureolaria flava (L.) Farw.
Aureolaria grandiflora (Benth) Pennell
Aureolaria pedicularia (L.) Raf.
Gerardia asper Dougl.*
Gerardia skinneriana Wood*
Gerardia tenuifolia Vahl.
Otophylla auriculata Nutt.*
Castilleja coccinea (L.) Spreng.
Pedicularis canadensis L.
Pedicularis lanceolata Michx.

Lentibulariaceae

Utricularia vulgaris L.

Orobanchaceae

Orobanche uniflora L.*

Phrymaceae

Phryma leptostachya L.

Plantainaceae

Plantago aristata Michx.
Plantago lanceolata L.
Plantago major L.*
Plantago purshii R. & S.
Plantago rugelii Dcne.

Rubiaceae

Cephalanthus occidentalis L.
Diodia teres Walt.
Galium aparine L.
Galium asperellum Michx.
Galium boreale L.
Galium circaezans Michx.
Galium palustre L.*
Galium trifidum L.
Galium triflorum Michx.

Caprifoliaceae

Sambucus canadensis L.
Viburnum acerifolium L.
Viburnum affine Bush
Viburnum prunifolium L.
Viburnum rafinesquianum Schult.
Viburnum trilobum Marsh.
Symphoricarpos occidentalis Hook.
Symphoricarpos rivularis Suksd.*
Lonicera dioica L.*
Lonicera flava Sims.
Lonicera prolifera (Kirsch.) Rehr.
Diervilla lonicera Mill.
Triosteum aurantiacum Bickn.
Triosteum perfoliatum L.
Adoxa moschatellina L.*

Valerianaceae

Valeriana edulis Nutt.

Cucurbitaceae

Echinocystis lobata (Michx.) T. & G.
Sicyos angulatus L.*

Campanulaceae

Campanula americana L.
Campanula aparinoides Pursh*
Campanula rotundifolium L.
Campanula trachelium L.*
Specularia perfoliata (L.) A. DC.

Lobeliaceae

Lobelia cardinalis L.
Lobelia inflata L.
Lobelia leptostachys A. DC.*
Lobelia siphilitica L.
Lobelia spicata Lam.

Compositae

Iva ciliata Willd.
Iva xanthifolia Nutt.*
Ambrosia coronopifolia T. & G.*
Ambrosia elatior L.
Ambrosia trifida L.
Xanthium canadense Mill.
Xanthium commune Britt.
Vernonia fasciculata Michx.
Vernonia missurica Raf.
Eupatorium altissimum L.
Eupatorium maculatum L.
Eupatorium perfoliatum L.
Eupatorium purpureum L.
Eupatorium rugosum Houtt.
Eupatorium serotinum Michx.
Kuhnia eupatorioides L.
Liatris aspera Michx.
Liatris bebbiana Rydb.
Liatris cylindracea Michx.*
Liatris spicata (L.) Willd.*
Grindelia squarrosa (Pursh) Dunal*
Chrysopsis villosa (Pursh) Nutt.*
Solidago altissima L.
Solidago canadensis L.
Solidago gilvocanescens Rydb.
Solidago glaberrima Martens
Solidago hirtella (Greene) Bush*
Solidago hispida Muhl.
Solidago juncea Ait
Solidago latifolia L.
Solidago media (Greene) Bush
Solidago nemoralis Ait.
Solidago riddellii Frank
Solidago rigida L.
Solidago rugosa Mill.*
Solidago serotina Ait.
Solidago speciosa Nutt.
Solidago ulmifolia Muhl.
Solidago unilugulata (DC.) Porter*
Boltonia asteroides (L.) L'Her.*

Aster anomalus Engelm.
Aster azurus Lindl.
Aster cordifolius L.
Aster drummondii Lindl.
Aster dumosus L.*
Aster ericoides L.
Aster interior Wieg.*
Aster junceus Ait.
Aster laevis L.
Aster lateriflorus (L.) Britt.
Aster linariifolius L.
Aster macrophyllus L.*
Aster novae-angliae L.
Aster oblongifolius Nutt.*
Aster paniculatus Lam.
Aster pilosus Willd.
Aster prealtus Poir.
Aster prenanthoides Muhl.
Aster ptarmicoides (Nees.) T. & G.
Aster sagittifolius Wed.*
Aster salicifolius Lam.
Aster sericeus Vent.*
Aster shortii Lindl.
Aster umbellatus Mill.
Aster vimineus Lam.*
Erigeron annuus (L.) Pers.
Erigeron canadensis L.
Erigeron divaricatus Michx.*
Erigeron philadelphicus L.
Erigeron pulchellus Michx.
Erigeron strigosus Muhl.
Antennaria fallax Greene
Antennaria neglecta Greene.*
Antennaria neodioica Greene*
Antennaria plantaginifolia Hook.
Gnaphalium obtusifolium L.
Gnaphalium uliginosum L.*
Polymnia canadensis L.
Silphium integrifolium Michx.
Silphium laciniatum L.
Silphium perfoliatum L.
Silphium terebinthinaceum Jacq.
Parthenium integrifolium L.
Heliopsis helianthoides (L.) Sweet
Eclipta alba (L.) Hassk.
Rudbeckia hirta L.
Rudbeckia laciniata L.
Rudbeckia subtomentosa Pursh*
Rudbeckia triloba L.
Brauneria pallida (Nutt.) Britt.
Ratibida pinnata (Vent.) Barnh.
Galinsoga ciliata (Raf.) Blake
Helianthus annuus L.
Helianthus decapetalus L.
Helianthus divaricatus L.
Helianthus grosseserratus Martens
Helianthus maximiliani Schrad.*
Helianthus occidentalis Riddell
Helianthus petiolaris Nutt.*
Helianthus rigidus (Cass.) Desf.
Helianthus strumosus L.
Helianthus tuberosus L.*

- Coreopsis lanceolata* L.
Coreopsis palmata Nutt.
Bidens aristosa (Michx.) Britt.
Bidens comosa (Gray) Wieg.
Bidens connata Muhl.*
Bidens coronata (L.) Britt.
Bidens discoidea (T. & G.) Britt.*
Bidens frondosa L.
Helenium autumnale L.
Dyssodia papposa (Vent.) Hitchc.*
Archillea millefolium L.
Chrysanthemum leucanthemum L.
Anthemis cotula L.
Tanacetum vulgare L.
Artemisia annua L.*
Artemisia biennis Willd.*
Artemisia canadensis Michx.*
Artemisia caudata Michx.
Artemisia dracunculoides Pursh*
Artemisia gnaphaloides Nutt.
Artemisia serrata Nutt.*
Cacalia atriplicifolia L.
Cacalia muhlenbergii (Sch-Bip.) Fern.
Cacalia suaveolens L.
Cacalia tuberosa Nutt.
Erechtites hieracifolia (L.) Raf.*
Senecio aureus L.
Senecio balsamitae Muhl.
Senecio obovatus Muhl.*
Arctium minus (Hill) Bern.
Cirsium altissimum (L.) Spreng.
Cirsium arvense (L.) Scop.
Cirsium dicolor (Muhl.) Spreng.
Cirsium muticum Michx.
Cirsium undulatum (Muhl.) Spreng.*
Cirsium vulgare (Savi) Airy-Shaw
Tragopogon pratensis L.
Krigia biflora (Walt.) Blake
Krigia virginica (L.) Willd.
Cichorium intubus L.
Lactuca canadensis L.
Lactuca biennis (Moench) Fern.*
Lactuca floridana (L.) Gaertn.
Lactuca pulchella (Pursh) DC.*
Lactuca sagittifolia Ell.*
Lactuca scariola L.
Lactuca villosa Jacq.*
Sonchus arvensis L.
Sonchus asper (L.) Hill*
Sonchus oleraceus L.
Prenanthes alba L.
Prenanthes altissima L.*
Prenanthes aspera Michx.
Prenanthes cripidinea Michx.*
Hieracium aurantiacum L.*
Hieracium canadense Michx.
Hieracium gronovii L.
Hieracium longipilum Torr.*
Hieracium scabrum Michx.*
Agoseris cuspidata (Pursh) Steud.*
Taraxacum vulgare (Lam.) Schrank
Taraxacum laevigatum (Willd.) DC.

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