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A Checklist of the Vascular Flora of Allamakee County, Iowa

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Based upon field and herbarium study, the vascular flora of Allamakee County is composed of 1040 taxa (species plus hybrids), including 46 endangered and 23 threatened Iowa species. This number represents approximately 50% of the species in the state flora and is the greatest number of taxa documented for a single Iowa county. The large and diverse flora reflects the diversity of topography and habitat types within the county. The study resulted in the addition of four taxa to the state flora (*Conopholis americana*, *Dryopteris X triploidea*, *Equisetum X litorale*, and *Polygonum douglasii*) and in the location of populations of two species previously considered extirpated within the state (*Dryopteris intermedia* and *Ilex verticillata*).

INDEX DESCRIPTORS: Allamakee County Flora, Driftless Area Flora, Endangered Plant Species, Iowa Vascular Flora, Threatened Plant Species.

Allamakee County is located in extreme northeastern Iowa, bounded on the east by the Mississippi River and on the north by the Minnesota state boundary. The landscape consists of a relatively flat upland (Paleozoic Plateau) which is covered by thin loess and occasionally some patches of Nebraskan glacial drift (Scholtes and Swenson, 1958). The bed rock controls terrain features, which consist of v-shaped valleys, abruptly dissected escarpments, and a mature drainage system (Prior, 1976). Exposures of Niagara limestones and St. Peter sandstones occur throughout the county. This physiographic diversity, exceptional within Iowa, is typical of Allamakee and adjacent counties which form the western edge of the Driftless Area. Counties within this portion of the Driftless Area exhibit a great diversity of habitats which are occupied by a great diversity of plant communities of northern forest, eastern forest, and tall grass prairie biomes (Hartley, 1960).

The county has been a subject of botanical study for approximately 100 years. Observations on the special nature of its communities and on the presence of rare plants were reported by Pammel (1891), Fitzpatrick (1899), Pammel and King (1901), Pammel (1905), Shimek (1924), Hayden (1940; 1945), and Thorne (1953; 1956). A floristic study undertaken by Hage (1929) was stimulated by Pammel's earlier observation (Pammel, 1905) that the bluff floras of Iowa and Wisconsin were similar. These studies were expanded in scope and thoroughness by Hartley (1966) in his flora of the entire Driftless Area of Illinois, Iowa, Minnesota, and Wisconsin. Tolstead (1938) published a list of species in a format that did not distinguish plant occurrence within Allamakee County from occurrence in adjacent counties. Hartley (1962) included dot maps of the Driftless Area in his unpublished Ph.D. thesis, from which a county list of 858 taxa was extracted. This flora only included Hartley's personal collections, specimens at the University of Iowa herbarium, and limited inspection of specimens elsewhere. Many obvious omissions from the Allamakee County flora in that list indicated that field and herbarium study was needed in order to prepare a relatively complete county flora.

During 1978 the Preserves Advisory Board of the Iowa Conservation Commission sponsored a natural history foray in Allamakee County to inventory natural areas and their associated species. The foray initiated the preparation of this update and revision of the vascular flora of Allamakee County, Iowa.

METHODS

Field collections were made in 1978 and 1979. All of Hartley's collecting stations were visited (Hartley, 1962); additional stations of botanical interest were also examined. Special emphasis was placed upon habitats within Yellow River State Forest. The ruggedness of the

steep bluffs and difficulties of access into wetlands along the Mississippi River and tributary rivers within the county hampers field search. Thus, it is very likely that continued field efforts within Allamakee County will add new county and state records and will result in the discovery of new localities of botanical interest.

Herbarium search was conducted to 1) corroborate the occurrence of species reported by Hartley (1962) which were not observed in the field, 2) completely search herbaria only partially examined by Hartley, and 3) search additional herbaria having specimens of Allamakee County plants. Search was conducted at Effigy Mounds National Monument (EMNM), Iowa State University (ISC), University of Iowa (IA), University of Northern Iowa (ISTC), and University of Wisconsin-La Crosse (UWL). Our vouchers are deposited at University of Northern Iowa (ISTC).

The checklist is alphabetized to facilitate manual and computer processing. Family and higher categories are in general agreement with treatments by Cronquist (1968) for seed plants and Crabbe, Jermy, and Mickel (1975) for ferns and fern allies. Binomials and common names are selected to follow: 1) recent Iowa taxonomic treatments for Apiaceae (Crawford, 1970), Orchidaceae (Niemann, 1974), Poaceae (Pohl, 1966), and ferns and fern allies (Peck, 1976); 2) regional manuals (Fernald, 1950; Gleason and Cronquist, 1963), and 3) state floras adjacent to the county (Mohlenbrock, 1975). The list is annotated with an asterisk (*) before the binomial of naturalized species, a double exclamation mark (!!) before an Iowa endangered plant, and a single exclamation mark (!) before an Iowa threatened plant (Roosa and Eilers, 1978). Plants known only in cultivation are not listed. The county checklist is consistent with the Iowa vascular plant checklist being prepared by Eilers.

VASCULAR PLANT CHECKLIST

A total of 1040 taxa (species plus hybrids) is reported. This is the greatest number of taxa documented for a single Iowa county; 966 were reported from Johnson County by Thorne (1955). This number represents over 50% of the estimated Iowa flora (Eilers, 1975). Although most of the taxa in Allamakee County are also represented in other Iowa counties (Eilers, 1965), many species rare in Iowa occur in Allamakee County, including 46 Iowa endangered and 23 Iowa threatened plants. The study led to the addition of four taxa to the state flora (*Conopholis americana*, *Dryopteris X triploidea*, *Equisetum X litorale*, and *Polygonum douglasii*) and to the discovery of populations of two species previously considered extirpated within Iowa (*Dryopteris intermedia* and *Ilex verticillata*). With many rare plant populations located within Allamakee County, continued efforts to preserve critical

habitats are necessary. Studies of the species biology of these populations are needed to suggest approaches for population recovery and to aid in interpreting the phyto geography of the county flora. The checklist will also facilitate county-level natural area inventories.

EQUISETOPHYTA

EQUISETACEAE (Horsetail Family)

- Equisetum arvense* L. (Field Horsetail)
 !*Equisetum fluviatile* L. (Water Horsetail)
Equisetum hyemale L. (Common Scouring-rush)
Equisetum laevigatum A. Br. (Smooth Scouring-rush)
 !*Equisetum pratense* Ehrh. (Meadow Horsetail)
 !!*Equisetum scirpoides* Michx. (Dwarf Scouring-rush)
Equisetum X ferrissii Clute (*E. hyemale X E. laevigatum*)
Equisetum X litorale Kuhl. (*E. arvense X E. fluviatile*)

LYCOPODIOPHYTA

LYCOPODIACEAE (Clubmoss Family)

- !!*Lycopodium dendroideum* Michx. (Round-branched Clubmoss)
 !!*Lycopodium flabelliforme* (Fern.) Blanch. (Crowfoot Clubmoss)
 !*Lycopodium lucidulum* Michx. (Shining Clubmoss)
 !!*Lycopodium porophyllum* Lloyd & Underw. (Rock Clubmoss)
Lycopodium lucidulum Michx. X *L. porophyllum* Lloyd & Underw. (Shining-Rock Hybrid Clubmoss)

SELAGINELLACEAE (Spikemoss Family)

- !*Selaginella rupestris* (L.) Spring (Rock Spikemoss)

POLYPODIOPHYTA

ADIANTACEAE (Maidenhair Fern Family)

- Adiantum pedatum* L. (Northern Maidenhair Fern)
Cheilanthes feei Moore (Slender Lip Fern)
Cryptogramma stelleri (Gmel.) Prantl (Slender Cliff-brake)
 !!*Pellaea atropurpurea* (L.) Link (Purple Cliff-brake)
Pellaea glabella Mett. ex. Kuhn (Smooth Cliff-brake)

ASPLENIACEAE (Common Fern Family)

- Asplenium platyneuron* Oakes ex. D.C. Eat. (Ebony Spleenwort)
Athyrium angustum (Willd.) Presl (Northeastern Lady Fern)
Athyrium pycnocarpon (Spreng.) Tidestr. (Glade Fern)
Athyrium thelypteroides (Michx.) Desv. (Silvery Glade Fern)
Camptosorus rhizophyllus (L.) Link (Walking Fern)
Cystopteris bulbifera (L.) Bernh. (Bulblet Fern)
Cystopteris fragilis (L.) Bernh. var. *mackayi* Laws. (Mackay's Fragile Fern)
Cystopteris protrusa (Weath.) Blasdell (Creeping Fragile Fern)
Dryopteris cristata (L.) Gray (Crested Wood Fern)
Dryopteris goldiana (Hook.) Gray (Goldie's Wood Fern)
 !!*Dryopteris intermedia* (Muhl.) Gray (Glandular Wood Fern)
 !!*Dryopteris marginalis* (L.) Gray (Marginal Shield Fern)

- Dryopteris spinulosa* (O.F. Muell.) Watt (Spinulose Wood Fern)
Dryopteris X triploidea Wherry (*D. intermedia X D. spinulosa*)
 !*Gymnocarpium dryopteris* (L.) Gray (Oak Fern)
 !!*Gymnocarpium robertianum* (Hoff.) Newm. (Limestone Oak Fern)
Matteuccia struthiopteris (L.) Tod. (Ostrich Fern)
Onoclea sensibilis L. (Sensitive Fern)
Polystichum acrostichoides (Michx.) Schott (Christmas Fern)
 !!*Woodsia ilvensis* (L.) R. Br. (Rusty Cliff Fern)
Woodsia obtusa (Spreng.) Torr. (Blunt-lobed Cliff Fern)
 !!*Woodsia oregana* D.C. Eat. (Western Cliff Fern)

AZOLLACEAE (Mosquito Fern Family)

- Azolla mexicana* Presl. (Mosquito Fern)

DENNSTAEDTIACEAE (Bracken Family)

- Pteridium aquilinum* (L.) Kuhn (Bracken Fern)

OPHIOGLOSSACEAE (Adder's-Tongue Fern Family)

- Botrychium dissectum* Spreng. f. *dissectum* (Dissected Grape Fern)
Botrychium dissectum Spreng. f. *obliquum* (Muhl.) Fern. (Oblique Grape Fern)
 !!*Botrychium multifidum* (Gmel.) Rupr. (Leather Grape Fern)
Botrychium virginianum (L.) Sw. (Rattlesnake Fern)

OSMUNDACEAE (Royal Fern Family)

- Osmunda claytoniana* L. (Interrupted Fern)
 !!*Osmunda regalis* L. (Royal Fern)

POLYPODIACEAE (Polypody Fern Family)

- Polypodium virginianum* L. (Rock-cap Fern)

THELYPTERIDACEAE (Marsh Fern Family)

- Phegopteris hexagonoptera* (Michx.) Fee (Southern Beech Fern)
Thelypteris palustris (L.) Schott (Marsh Fern)

PINOPHYTA

CUPRESSACEAE (Cypress Family)

- Juniperus communis* L. (Common Juniper)
Juniperus virginiana L. (Red Cedar)
 **Thuja occidentalis* L. (White Cedar)

PINACEAE (PINE FAMILY)

- Abies balsamea* (L.) Mill. (Balsam Fir)
Pinus strobus L. (White Pine)

TAXACEAE (Yew Family)

- Taxus canadensis* Marsh. (American Yew)

MAGNOLIOPHYTA: MAGNOLIATAE

ACANTHACEAE (Acanthus Family)

- Ruellia humilis* Nutt. (Wild Petunia)

ACERACEAE (Maple Family)

- Acer negundo* L. (Boxelder)
Acer nigrum Michx. f. (Black Maple)

Acer saccharinum L. (Silver Maple)

Acer saccharum Marsh. (Sugar Maple)

Acer spicatum Lam. (Mountain Maple)

ADOXACEAE (Moschatel Family)

! *Adoxa moschatellina* L. (Moschatel)

AIZOACEAE (Carpetweed)

* *Mollugo verticillata* L. (Carpetweed)

AMARANTHACEAE (Amaranth Family)

Amaranthus albus L. (Pigweed)

* *Amaranthus graecizans* L. (Prostrate Pigweed)

* *Amaranthus retroflexus* L. (Pigweed)

Amaranthus tamariscinus (Nutt.) Wood (Pigweed)

Amaranthus tuberculatus (Moq.) J.D. Sauer (Water-hemp)

Froelichia floridana (Nutt.) Moq. (Cottonweed)

ANACARDIACEAE (Cashew Family)

Rhus glabra L. (Smooth Sumac)

Rhus typhina L. (Staghorn Sumac)

Toxicodendron radicans Ktze. subsp. *negundo* (Greene) Gillis (Poison Ivy)

Toxicodendron rydbergii (Small ex Rydb.) Greene (Poison Ivy)

APIACEAE (Parsley Family)

Chaerophyllum procumbens (L.) Crantz (Prostrate Chervil)

Cicuta bulbifera L. (Water-hemlock)

Cicuta maculata L. (Spotted Cowbane)

Cryptotaenia canadensis (L.) DC. (Honewort)

* *Daucus carota* L. (Queen Anne's Lace)

Eryngium yuccifolium Michx. (Rattlesnake-master)

Heracleum lanatum Michx. (Cow-parsnip)

Osmorhiza claytoni (Michx.) Clarke (Sweet Cicely)

Osmorhiza longistylis (Torr.) DC. (Anise-root)

* *Pastinaca sativa* L. (Parsnip)

Sanicula canadensis L. (Canadian Black Snakeroot)

Sanicula gregaria Bickn. (Common Snakeroot)

Sanicula marilandica L. (Black Snakeroot)

Sanicula trifoliata Bickn. (Large-fruited Black Snakeroot)

Sium suave Walt. (Water-parsnip)

Taenidia integerrima (L.) Drude (Yellow Pimpernel)

Thaspium barbinode (Michx.) Nutt. (Meadow-parsnip)

Zizia aurea (L.) W.D.J. Koch (Golden Alexanders)

APOCYNACEAE (Dogbane Family)

Apocynum androsaemifolium L. (Spreading Dogbane)

Apocynum cannabinum L. (Indian Hemp)

Apocynum sibiricum Jacq. (Indian Hemp)

AQUIFOLIACEAE (Holly Family)

!! *Ilex verticillata* (L.) Gray (Winterberry)

ARALIACEAE (Ginseng Family)

Aralia nudicaulis L. (Wild Sarsaparilla)

Aralia racemosa L. (Spikenard)

Panax quinquefolius L. (Ginseng)

ARISTOLOCHIACEAE (Birthwort Family)

Asarum canadense L. (Wild Ginger)

ASCLEPIADACEAE (Milkweed Family)

Asclepias amplexicaulis Sm. (Sand Milkweed)

Asclepias exaltata L. (Poke Milkweed)

Asclepias hirtella (Pennell) Woodson (Hairy Milkweed)

Asclepias incarnata L. (Swamp Milkweed)

!! *Asclepias lanuginosa* Nutt. (Woolly Milkweed)

Asclepias ovalifolia Dcne. (Oval-leaved Milkweed)

Asclepias syriaca L. (Common Milkweed)

Asclepias tuberosa L. (Butterfly-weed)

Asclepias verticillata L. (Whorled Milkweed)

Asclepias viridiflora Raf. (Green Milkweed)

ASTERACEAE (Aster Family)

* *Achillea millefolium* L. (Common Yarrow)

Ambrosia artemisiifolia L. (Common Ragweed)

Ambrosia psilostachya DC. var. *coronopifolia* (Torr. & Gray) Farw. (Western Ragweed)

Ambrosia trifida L. (Great Ragweed)

Antennaria neglecta Greene (Field Pussytoes)

Antennaria plantaginifolia (L.) Richards. (Pussytoes)

* *Anthemis cotula* L. (Stinking Chamomile)

* *Arctium minus* Schk. (Common Burdock)

* *Artemisia biennis* Willd. (Wormwood)

Artemisia campestris L. ssp. *caudata* (Michx.) Hall & Clem. (Wormwood)

Artemisia ludoviciana Nutt. (Prairie-sage)

Aster azureus Lindl. (Sky Blue Aster)

Aster cordifolius L. (Blue Wood Aster)

Aster drummondii Lindl. (Drummond's Aster)

Aster ericoides L. (Heath Aster)

Aster laevis L. (Smooth Aster)

Aster lateriflorus (L.) Britt. (Side-flowered Aster)

Aster novae-angliae L. (New England Aster)

Aster oblongifolius Nutt. (Aromatic Aster)

Aster ontarionis Wieg. (Ontario Aster)

Aster prenanthoides Muhl. (Aster)

Aster ptarmicoides (Nees) Torr. & Gray (Aster)

Aster pubentior Cronq. (Pubescent Aster)

Aster puniceus L. (Swamp Aster)

Aster sagittifolius Wedemeyer ex. Willd. (Arrow-leaved Aster)

Aster sericeus Vent. (Silky Aster)

Aster shortii Lindl. (Short's Aster)

Aster simplex Willd. (Panicled Aster)

Aster umbellatus Mill. (Flat-topped Aster)

Bidens cernua L. (Stick-tight)

Bidens frondosa L. (Beggars-ticks)

* *Bidens tripartita* L. (European Beggar-ticks)

FLORA OF ALLAMAKEE COUNTY, IOWA

- Bidens vulgata* Greene (Common Beggar-ticks)
Boltonia asteroides (L.) L'Her (Boltonia)
Cacalia muhlenbergii (Schultz-Bip.) Fern. (Great Indian-plantain)
Cacalia tuberosa Nutt. (Tuberous Indian-plantain)
 **Chrysanthemum leucanthemum* L. (Ox-eye Daisy)
 **Cichorium intybus* L. (Chicory)
Cirsium altissimum (L.) Spreng. (Tall Thistle)
 **Cirsium arvense* (L.) Scop. (Canada Thistle)
Cirsium discolor (Muhl.) Spreng. (Field Thistle)
Cirsium hillii (Canby) Fern. (Hill's Thistle)
 **Cirsium vulgare* (Savi) Tenore (Bull Thistle)
Conyza canadensis (L.) Cronq. (Horseweed)
Coreopsis palmata Nutt. (Stiff Tickseed)
Echinacea pallida Nutt. (Purple Coneflower)
Erechtites hieracifolia (L.) Raf. (Pilewort)
 **Erigeron annuus* (L.) Pers. (Daisy Fleabane)
Erigeron philadelphicus L. (Common Fleabane)
Erigeron pulchellus Michx. (Robin-plantain)
 **Erigeron strigosus* Muhl. (Daisy Fleabane)
Eupatorium altissimum L. (Thoroughwort)
Eupatorium maculatum L. (Spotted Joe-pye-weed)
Eupatorium perfoliatum L. (Thoroughwort Boneset)
Eupatorium purpureum L. (Sweet Joe-pye-weed)
Eupatorium rugosum Houtt. (White Snakeroot)
 !*Eupatorium sessilifolium* L. (Upland Boneset)
 **Galinsoga ciliata* (Raf.) Blake (Hairy Galinsoga)
 **Galinsoga parviflora* Cav. (Small-flowered Galinsoga)
Gnaphalium obtusifolium L. (Sweet Everlasting)
Gnaphalium purpureum L. (Pearly Everlasting)
Grindelia squarrosa (Pursh) Dunal (Gumweed)
Helenium autumnale L. (Sneezeweed)
Helianthus annuus L. (Common Sunflower)
Helianthus decapetalus L. (Thin-leaved Sunflower)
Helianthus divaricatus L. (Spreading Sunflower)
Helianthus giganteus L. (Gigantic Sunflower)
Helianthus grosseserratus Martens (Serrate Sunflower)
Helianthus occidentalis Riddell (Western Sunflower)
Helianthus rigidus (Cass.) Fern. (Prairie Sunflower)
Helianthus strumosus L. (Pale-leaved Wood Sunflower)
 **Helianthus tuberosus* L. (Jerusalem-artichoke)
Heliopsis helianthoides (L.) Sweet (Ox Eye)
Hieracium canadense Michx. (Canadian Hawkweed)
Hieracium longipilum Torr. (Long-haired Hawkweed)
Hieracium scabrum Michx. (Rough Hawkweed)
Hieracium umbellatum L. (Hawkweed)
Iva xanthifolia Nutt. (Marsh-elder)
Krigia biflora (Walt.) Blake
Kuhnia eupatorioides L. (False Boneset)
Lactuca canadensis L. (Wild Lettuce)
Lactuca floridana (L.) Gaertn. (Blue Lettuce)
Lactuca ludoviciana (Nutt.) Riddell (Louisiana Lettuce)
 **Lactuca serriola* L. (Prickly Lettuce)
Liatris aspera Michx. (Rough Blazing Star)
Liatris cylindracea Michx. (Cylindric Blazing Star)
Liatris pycnostachya Michx. (Prairie Blazing Star)
 **Matricaria matricarioides* (Less.) Porter (Pineapple-weed)
Polymnia canadensis L. (Leafcup)
Prenanthes alba L. (Rattlesnake-root)
Ratibia pinnata (Vent.) Barnh. (Prairie-coneflower)
Rudbeckia hirta L. (Black-eyed Susan)
Rudbeckia laciniata L. (Green-headed Coneflower)
Rudbeckia triloba L. (Thin-leaved Coneflower)
Senecio aureus L. (Golden Ragwort)
Senecio pauperculus Michx. (Balsam Ragwort)
Senecio plattensis Nutt. (Prairie Ragwort)
Silphium integrifolium Michx. (Entire-leaved Rosinweed)
Silphium laciniatum L. (Compass Plant)
Silphium perfoliatum L. (Cup-plant)
Solidago bicolor L. (Silverrod)
Solidago caesia L. (Blue-stemmed Goldenrod)
Solidago canadensis L. (Tall Goldenrod)
Solidago flexicaulis L. (Zigzag Goldenrod)
Solidago gigantea Ait. (Late Goldenrod)
Solidago glaberrima Martens (Bunched Goldenrod)
Solidago graminifolia (L.) Salisb. (Grass-leaved Goldenrod)
Solidago hispida Muhl. (Hairy Goldenrod)
Solidago juncea Ait. (Stiff Goldenrod)
Solidago missouriensis Nutt. (Missouri Goldenrod)
Solidago nemoralis Ait. (Gray Goldenrod)
Solidago rigida L. (Stiff Goldenrod)
Solidago sciaphila Steele (Goldenrod)
Solidago speciosa Nutt. (Showy Goldenrod)
Solidago ulmifolia Muhl. (Elm-leaved Goldenrod)
 **Sonchus arvensis* L. (Field Sow-thistle)
 **Sonchus oleraceus* L. (Common Sow-thistle)
 **Sonchus uliginosus* Bieb. (Marsh Sow-thistle)
 **Tanacetum vulgare* L. (Tansy)
 **Taraxacum laevigatum* (Willd.) DC. (Red-seeded Dandelion)
 **Taraxacum officinale* Weber (Common Dandelion)
 **Tragopogon dubius* Scop. (Goat's-beard)
 **Tragopogon pratensis* L. (Yellow Goat's-beard)
Vernonia altissima Nutt. (Tall Ironweed)
Vernonia fasciculata Michx. (Bunched Ironweed)
 **Xanthium strumarium* L. (Cocklebur)

BALSAMINACEAE (Touch-me-not Family)

- Impatiens biflora* Walt. (Spotted Touch-me-not)
Impatiens pallida Nutt. (Pale Touch-me-not)

BERBERIDACEAE (Barberry Family)

- Berberis vulgaris* L. (European Barberry)
Caulophyllum thalictroides (L.) Michx. (Blue Cohosh)
 !!*Jeffersonia diphylla* (L.) Pers. (Twinleaf)
Podophyllum peltatum L. (May-apple)

BETULACEAE (Birch Family)

- Alnus rugosa* (DuRoi) Spreng. (Speckled Alder)
Betula lutea Michx. f. (Yellow Birch)
Betula nigra L. (River Birch)
Betula papyrifera Marsh. (Paper Birch)
 !!*Betula pumila* L. var. *glandulifera* Regel (Glandular Dwarf Birch)
Carpinus caroliniana Walt. (Blue-beech)
Corylus americana Walt. (American Hazel)
Corylus cornuta Marsh. (Beaked Hazel)
Ostrya virginiana (Mill.) K. Koch (Hop Hornbeam)

BIGNONIACEAE (Trumpet creeper Family)

- **Catalpa speciosa* Warder (Cigar Tree)

BORAGINACEAE (Borage Family)

- **Cynoglossum officinale* L. (Common Hound's-tongue)
Hackelia deflexa (Wahl.) Opiz (Stickseed)
Hackelia virginiana (L.) Johnst. (Stickseed)
 **Lappula echinata* Gilib. (Stickseed)
Lithospermum canescens (Michx.) Lehm. (Hoary Puccoon)
Lithospermum carolinense (Walt.) MacM. (Puccoon)
Lithospermum croceum Fern. (Hairy Puccoon)
Lithospermum incisum Lehm. (Narrow-leaved Puccoon)
Lithospermum latifolium Michx. (Broad-leaved Puccoon)
Mertensia virginica (L.) Pers. (Bluebell)
 **Myosotis scorpioides* L. (True Forget-me-not)
Onosmodium hispidissimum Mackenz. (Hairy Marble-seed)
Onosmodium occidentale Mackenz. (Western Marble-seed)

BRASSICACEAE (Mustard Family)

- Arabis canadensis* L. (Sickle-pod)
Arabis drummondii Gray (Rock Cress)
Arabis glabra (L.) Bernh. (Tower Mustard)
Arabis hirsuta (L.) Scop. (Hairy Rock Cress)
Arabis laevigata (Muhl.) Poir. (Smooth Rock Cress)
Arabis lyrata L. (Lyre-leaved Rock Cress)
Arabis missouriensis Greene (Green Rock Cress)
Arabis shortii (Fern.) Gl. (Short's Rock Cress)
Armoracia rusticana Gaertn., Mey. Scherb. (Horseradish)
 **Barbarea vulgaris* R. Br. (Yellow Rocket)
 **Berteroa incana* (L.) DC. (Hoary Alyssum)
 **Brassica juncea* (L.) Coss. (Chinese Mustard)
 **Brassica kaber* (DC.) L. Wheeler (Charlock)
 **Brassica nigra* (L.) Koch (Black Mustard)
 **Capsella bursa-pastoris* (L.) Medic. (Shepherd's-purse)
Cardamine bulbosa (Schreb.) BSP (Spring Cress)
Cardamine pensylvanica Muhl. (Bitter Cress)

- **Cardaria fenestrata* (Boiss.) Rollins (Hoary Cress)
Dentaria laciniata Muhl. (Toothwort)
Descurainia pinnata (Walt.) Britt. (Tansy-mustard)
Draba reptans (Lam.) Fern. (Whitlow Grass)
 **Erysimum cheiranthoides* L. (Wormseed Mustard)
 **Lepidium campestre* (L.) Br. (Cow-ress)
 **Lepidium densiflorum* Schrad. (Peppergrass)
 **Nasturtium officinale* R. Br. (Watercress)
 **Raphanus raphanistrum* L. (Jointed Charlock)
Rorippa islandica (Oeder) Borbas (Yellow Cress)
Rorippa sessiliflora (Nutt.) Hitchc. (Sessile-flowered Yellow Cress)
 **Rorippa sylvestris* (L.) Besser (Creeping Yellow Cress)
 **Sisymbrium altissimum* L. (Tumble-mustard)
 **Sisymbrium officinale* (L.) Scop. (Hedge-mustard)
 **Thlaspi arvense* L. (Penny-cress)

CACTACEAE (Cactus Family)

- Opuntia compressa* (Salisb.) Macbr. (Prickly Pear)

CALLITRICHACEAE (Water Starwort Family)

- ! *Callitriche palustris* L. (Water Starwort)

CAMPANULACEAE (Bluebell Family)

- Campanula americana* L. (Tall Bellflower)
Campanula aparinoides Pursh (Marsh Bellflower)
Campanula rotundifolia L. (Harebell)
Lobelia cardinalis L. (Cardinal Flower)
Lobelia inflata L. (Indian-tobacco)
Lobelia siphilitica L. (Great Lobelia)
Lobelia spicata Lam. (Pale Spike Lobelia)
Lobelia spicata Lam. (Pale Spike Lobelia)
Triodanis perfoliata (L.) Nieuwl. (Venus' Looking-glass)

CANNABINACEAE (Hemp Family)

- **Cannabis sativa* L. (Hemp)
 **Humulus japonicus* Sieb. & Zucc. (Japanese Hops)
Humulus lupulus L. (Common Hops)

CAPPARIDACEAE (Caper Family)

- Polansia dodecandra* (L.) DC. (Clammyweed)

CAPRIFOLIACEAE (Honeysuckle Family)

- Diervilla lonicera* Mill. (Bush-honeysuckle)
Lonicera dioica L. (Wild Honeysuckle)
 **Lonicera morrowi* Gray (Morrow's Honeysuckle)
Lonicera prolifera (Kirchn.) Rehd. (Wild Grape-honeysuckle)
Sambucus canadensis L. (Common Elder)
Sambucus pubens Michx. (Red-berried Elder)
Symphoricarpos albus (L.) Blake (Snowberry)
Triosteum aurantiacum (Bickn.) Wieg. (Wild Coffee)
Triosteum perfoliatum L. (Tinker's-weed)
Viburnum lentago L. (Nannyberry)
Viburnum opulus L. var. *americanum* Ait. (High-bush Cranberry)
Viburnum rafinesquianum Schult. (Downy Arrow-wood)

FLORA OF ALLAMAKEE COUNTY, IOWA

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CARYOPHYLLACEAE (Pink Family)

- **Agrostemma githago* L. (Corn Cockle)
Arenaria lateriflora L. (Grove Sandwort)
Arenaria stricta Michx. (Rock Sandwort)
 !!*Cerastium arvense* L. (Field Chickweed)
Cerastium nutans Raf. (Nodding Mouse-ear Chickweed)
 **Cerastium vulgatum* L. (Common Mouse-ear Chickweed)
 **Lynchnis alba* Mill. (Evening Lychnis)
 **Myosoton aquaticum* (L.) Moench (Giant Chickweed)
Paronychia canadensis (L.) Wood (Forked Chickweed)
 **Saponaria officinalis* L. (Bouncing Bet)
Silene antirrhina L. (Sleepy Catch-fly)
 **Silene cserei* Baumg. (Bladder-campion)
Silene nivea (Nutt.) Otth. (Snowy Campion)
 **Silene noctiflora* L. (Night-flowering Catch-fly)
Silene stellata (L.) Ait. f. (Starry Campion)
Stellaria longifolia Muhl. (Starwort)
 **Stellaria media* (L.) Cyrill. (Common Chickweed)

CELASTRACEAE (Staff-tree Family)

- Celastrus scandens* L. (Bittersweet)
Euonymus atropurpureus Jacq. (Wahoo)

CERATOPHYLLACEAE (Hornwort Family)

- Ceratophyllum demersum* L. (Coontail)

CHENOPODIACEAE (Goosefoot Family)

- Atriplex patula* L. var. *hastata* (L.) Gray (Spear Scale)
 **Chenopodium album* L. (Lamb's-quarters)
 **Chenopodium botrys* L. (Jerusalem-oak)
 **Chenopodium capitatum* (L.) Aschers. (Goosefoot)
 **Chenopodium desiccatum* A. Nels. (Goosefoot)
Chenopodium hybridum L. (Maple-leaved Goosefoot)
Chenopodium standleyanum Aellen (Standley's Goosefoot)
Cycloloma atriplicifolium (Spreng.) Coult. (Winged Pigweed)
 **Salsola iberica* Sennen & Pau. (Russian-thistle)

CISTACEAE (Rockrose Family)

- Helianthemum bicknellii* Fern. (Bicknell's Frostweed)
Helianthemum canadense (L.) Michx. (Frostweed)
 !!*Lechea intermedia* Leggett (Pinweed)
Lechea stricta Leggett (Upright Pinweed)

CONVOLVULACEAE (Morning-glory Family)

- **Convolvulus arvensis* L. (Field-bindweed)
Convolvulus sepium L. (Wild Morning-glory)
Convolvulus spithameus L. (Low Bindweed)

CORNACEAE (Dogwood Family)

- Cornus alternifolia* L.f. (Pagoda Dogwood)
Cornus drummondii C.A. Meyer (Hairy Dogwood)
Cornus obliqua Raf. (Silky Dogwood)
Cornus racemosa Lam. (Gray Dogwood)
Cornus rugosa Lam. (Round-leaved Dogwood)
Cornus stolonifera Michx. (Red Dogwood)

CUCURBITACEAE (Gourd Family)

- Echinocystis lobata* (Michx.) T. & G. (Wild Curcumber)
Sicyos angulatus L. (Bar Cucumber)

CUSCUTACEAE (Dodder Family)

- Cuscuta coryli* Engelm. (Dodder)
Cuscuta cuspidata Engelm. (Dodder)
Cuscuta gronovii Willd. (Dodder)
Cuscuta polygonatum Engelm. (Dodder)

ERICACEAE (Heath Family)

- !!*Vaccinium angustifolium* Ait. (Low Sweet Blueberry)

EUPHORBIACEAE (Spurge Family)

- Acalypha rhomboidea* Raf. (Three-seeded Mercury)
Croton glandulosus L. (Glandular Croton)
Euphorbia corollata L. (Flowering Spurge)
Euphorbia cyathophora Murr. (Painted-leaf)
 **Euphorbia cyparissias* L. (Cypress Spurge)
 **Euphorbia geyeri* Engelm. (Geyer's Spurge)
Euphorbia glyptosperma Engelm. (Spurge)
Euphorbia maculata L. (Eyebane)
Euphorbia supina Raf. (Milk-purslane)

FABACEAE (Bean Family)

- Amorpha canescens* Pursh (Leadplant)
Amorpha fruticosa L. (Bastard Indigo)
Amphicarpa bracteata (L.) Fern. (Hog-peanut)
Apios americana Medic. (Groundnut)
Astragalus canadensis L. (Milk-vetch)
Baptisia leucantha T. & G. (White False Indigo)
Baptisia leucophaea Nutt. (Cream Wild Indigo)
Chamaecrista fasciculata (Michx.) Greene (Partridge-pea)
Desmodium canadense (L.) DC. (Showy Tick Trefoil)
Desmodium cuspidatum (Muhl.) Loud. (Large-bracted Tick Trefoil)
Desmodium glutinosum (Muhl.) Wood (Pointed Tick Trefoil)
Desmodium illinoense Gray (Illinois Tick Trefoil)
Desmodium nudiflorum (L.) DC. (Bare-stemmed Tick Trefoil)
Gleditsia triacanthos L. (Honey Locust)
 **Glycine max* (L.) Merr. (Soy-bean)
Gymnocladus dioica (L.) K. Koch (Kentucky Coffee-tree)
Lathyrus ochroleucus Hook. (Pale Vetchling)
Lathyrus palustris L. (Marsh Vetchling)
Lathyrus venosus Muhl. var. *intonsus* Butters & St. John (Vetchling)
Lespedeza capitata Michx. (Bush-clover)
 **Lotus corniculatus* L. (Bird's-foot Trefoil)
 **Medicago lupulina* L. (Black Medick)
 **Medicago sativa* L. (Alfalfa)
 **Melilotus alba* Desr. (White Sweet Clover)
 **Melilotus officinalis* (L.) Lam. (Yellow Sweet Clover)
Petalostemum candidum (Willd.) Michx. (White Prairie-clover)
Petalostemum purpureum (Vent.) Rydb. (Purple Prairie-clover)
Psoralea argophylla Pursh (Silver-leaved Scurf-pea)

Robinia pseudoacacia L. (Black Locust)
Strophostyles helvola (L.) Ell. (Wild Bean)
Tephrosia virginiana (L.) Pers. (Goat's-rue)
 **Trifolium campestre* Schreb. (Low Hop-clover)
 **Trifolium hybridum* L. (Alsike Clover)
 **Trifolium pratense* L. (Red Clover)
 **Trifolium repens* L. (White Clover)
Vicia americana Muhl. (Vetch)
 **Vicia angustifolia* Reich. (Common Vetch)
 **Vicia villosa* Roth (Hairy Vetch)

FAGACEAE (Beech Family)

Quercus alba L. (White Oak)
Quercus bicolor Willd. (Swamp White Oak)
Quercus borealis Michx. f. (Northern Red Oak)
Quercus ellipsoidalis E.J. Hill (Jack-oak)
Quercus macrocarpa Michx. (Bur Oak)
Quercus prinoides Willd. var. *acuminata* (Michx.) Gl. (Yellow Oak)
Quercus velutina Lam. (Black Oak)

FUMARIACEAE (Fumitory Family)

Corydalis micrantha (Engelm.) Gray ssp. *micrantha* Ownbey (Slender Fumewort)
Corydalis sempervirens (L.) Pers. (Pale Corydalis)
Dicentra canadensis (Goldie) Walp. (Squirrel-corn)
Dicentra cucullaria (L.) Bernh. (Dutchman's Breeches)

GENTIANACEAE (Gentian Family)

Gentiana andrewsii Griseb. (Closed Gentian)
 !*Gentiana crinita* Froel. (Fringed Gentian)
Gentiana flavida Gray (Yellowish Gentian)
Gentiana puberula Michx. (Prairie Gentian)
Gentiana quinquefolia L. (Stiff Gentian)

GERANIACEAE (Geranium Family)

Geranium maculatum L. (Wild Cranesbill)

HALORAGACEAE (Water-Milfoil Family)

Myriophyllum pinnatum (Walt.) BSP. (Water-milfoil)

HAMAMELIDACEAE (Witch-Hazel Family)

Hamamelis virginiana L. (Witch-hazel)

HIPPOCASTANACEAE (Horse Chestnut Family)

Aesculus glabra Willd. (Ohio Buckeye)
 **Aesculus hippocastanum* L. (Horse Chestnut)

HYDROPHYLLACEAE (Waterleaf Family)

Ellisia nyctelea L. (Waterpod)
Hydrophyllum appendiculatum Michx. (Waterleaf)
Hydrophyllum virginianum L. (John's-cabbage)

HYPERICACEAE (St. John's-wort Family)

Hypericum majus (Gray) Britt. (St. John's-wort)
Hypericum mutilum L. (Dwarf St. John's-wort)
 **Hypericum perforatum* L. (Common St. John's-wort)
Hypericum punctatum Lam. (Spotted St. John's-wort)

Hypericum pyramidatum Ait. (Great St. John's-wort)
Hypericum spathulatum (Spach) Steud. (Robust St. John's-wort)

JUGLANDACEAE (Walnut Family)

Carya cordiformis (Wang.) K. Koch (Bitternut Hickory)
Carya ovata (Mill.) K. Koch (Shagbark Hickory)
Juglans cinerea L. (Butternut)
Juglans nigra L. (Black Walnut)

LAMIACEAE (Mint Family)

Agastache nepetoides (L.) Kuntze. (Giant Hyssop)
Agastache scrophulariaefolia (Willd.) Ktze. (Purple Giant Hyssop)
Blephilia hirsuta (Pursh) Benth. (Wood Mint)
 **Galeopsis tetrahit* L. (Hemp-nettle)
 **Glechoma hederacea* L. var. *parviflora* Druce (Ground-ivy)
Hedeoma hispida Pursh (Mock Pennyroyal)
 **Leonurus cardiaca* L. (Common Motherwort)
Lycopus americanus Muhl. (Common Water Horehound)
Lycopus uniflorus Michx. (Northern Bugle Weed)
Mentha arvensis L. (Field Mint)
 **Mentha spicata* L. (Spearmint)
Monarda dydima L. (Oswego-tea)
Monarda fistulosa L. (Wild Bergamot)
Monarda punctata L. (Dotted Monarda)
 **Nepeta cataria* L. (Catnip)
Physostegia virginiana (L.) Benth. (False Dragonhead)
Prunella vulgaris L. (Heal-all)
Pycnanthemum pilosum Nutt. (Mountain Mint)
Pycnanthemum tenuifolium Schrad. (Slender Mountain Mint)
Pycnanthemum virginianum (L.) Durand & Jackson (Mountain Mint)
 **Satureja vulgaris* (L.) Fritsch (Basil)
Scutellaria galericulata L. (Common Skullcap)
Scutellaria lateriflora L. (Mad-dog Skullcap)
Scutellaria ovata Hill (Skullcap)
Scutellaria parvula Michx. (Small Skullcap)
Stachys palustris L. (Woundwort)
Stachys tenuifolia Willd. (Hedge-nettle)
Teucrium canadense L. (American Germander)
Trichostema dichotomum L. (Blue Curls)

LINACEAE (Flax Family)

Linum sulcatum Riddell (Wild Flax)

LYTHRACEAE (Loosestrife Family)

!!*Decodon verticillatus* (L.) Ell. (Water-willow)
Lythrum dactyloides Nieuwl. (Winged Loosestrife)

MALVACEAE (Mallow Family)

**Abutilon theophrasti* Medic. (Velvet-leaf)
 !*Callirhoe triangulata* (Leavenw.) Gray (Poppy-mallow)
Hibiscus militaris Cav. (Rose-mallow)
 **Hibiscus trionum* L. (Flower-of-an-hour)
 **Malva neglecta* Wallr. (Cheeses)
 !!*Napaea dioica* L. (Glade-mallow)

FLORA OF ALLAMAKEE COUNTY, IOWA

MENISPERMACEAE (Moonseed Family)

Menispermum canadense L. (Moonseed)

MENYANTHACEAE (Bogbean Family)

!!*Menyanthes trifoliata* L. (Bogbean)

MONOTROPACEAE (Indian-pipe Family)

Monotropa hypopithys L. (False Beech-drops)*Monotropa uniflora* L. (Indian-pipe)

MORACEAE (Mulberry Family)

Maclura pomifera* (Osage-orange)Morus alba* L. (White Mulberry)*Morus rubra* L. (Red Mulberry)

NELUMBONACEAE (Lotus Family)

Nelumbo lutea (Willd.) Pers. (Lotus)

NYCTAGINACEAE (Four-O'clock Family)

Mirabilis nyctaginea (Michx.) MacM. (Wild Four-O'Clock)

NYMPHAEACEAE (Water-lily Family)

Brasenia schreberi Gmel. (Purple Water Shield)*Nuphar luteum* (L.) Sibth. & Sm. ssp. *variegatum* (Engelm.) Beal
(Yellow Water-lily)*Nymphaea tuberosa* Paine (White Water-lily)

OLEACEAE (Olive Family)

Fraxinus americana L. (White Ash)*Fraxinus nigra* Marsh. (Black Ash)*Fraxinus pennsylvanica* Marsh. var. *subintegerrima* (Vahl) Fern.
(Green Ash)**Syringa vulgaris* L. (Common Lilac)

ONAGRACEAE (Evening-Primrose Family)

Circaea alpina L. (Small Enchanter's Nightshade)*Circaea lutetiana* L. ssp. *canadensis* (L.) Asch. & Magnus (Enchanter's Nightshade)*Epilobium adenocaulon* Haussk. (Northern Willow Herb)*Epilobium angustifolium* L. (Fireweed)*Epilobium coloratum* Biehler (Cinnamon Willow Herb)*Gaura biennis* L. (Biennial Gaura)*Ludwigia polycarpa* Short & Peter (False Loosestrife)*Oenothera biennis* L. (Evening Primrose)*Oenothera parviflora* L. (Small-flowered Evening Primrose)*Oenothera rhombipetala* Nutt. (Sand Primrose)*Oenothera serrulata* Nutt. (Toothed Evening Primrose)*Oenothera strigosa* (Rydb.) Mackenz. & Bush (Hairy Evening Primrose)

OROBANCHACEAE (Broom-rape Family)

!!*Conopholus americana* (L.) Wallr. (Squawroot)!!*Orobanche fasciculata* Nutt. (Broom-rape)*Orobanche uniflora* L. (Cancer-root)

OXALIDACEAE (Wood-sorrel Family)

Oxalis stricta L. (Yellow Wood-sorrel)*Oxalis violacea* L. (Violet Wood-sorrel)

PAPAVERACEAE (Poppy Family)

**Chelidonium majus* L. (Celandine)*Sanguinaria canadensis* L. (Bloodroot)

PHRYMACEAE (Lopseed Family)

Phryma leptostachya L. (Lopseed)

PHYTOLACCACEAE (Pokeweed Family)

Phytolacca americana L. (Pokeweed)

PLANTAGINACEAE (Plantain Family)

Plantago aristata Michx. (Bracted Plantain)**Plantago lanceolata* L. (English Plantain)**Plantago major* L. (Common Plantain)*Plantago patagonica* Jacq. (Salt-and-Pepper Plant)*Plantago rugelli* Dcne. (Rugel's Plantain)

PLATANACEAE (Plane-tree Family)

Platanus occidentalis L. (Sycamore)

POLEMONIACEAE (Polemonium Family)

Phlox divaricata L. (Blue Phlox)*Phlox paniculata* L. (Perennial Phlox)*Phlox pilosa* L. (Prairie Phlox)*Polemonium reptans* L. (Jacob's ladder)

POLYGALACEAE (Milkwort Family)

!!*Polygala incarnata* L. (Pink Milkwort)!!*Polygala polygama* Walt. (Purple Milkwort)*Polygala sanguinea* L. (Field Milkwort)*Polygala senega* L. (Seneca-snakeroot)*Polygala verticillata* L. (Whorled Milkwort)

POLYGONACEAE (Buckwheat Family)

Polygonella articulata (L.) Meissn. (Jointweed)*Polygonum achoreum* Blake (Erect Knotweed)*Polygonum amphibium* L. (Water Smartweed)**Polygonum arenastrum* Jord. (Knotweed)*Polygonum coccineum* Muhl. (Water Smartweed)**Polygonum convolvulus* L. (Black Bindweed)**Polygonum cuspidatum* Sieb. & Zucc. (Japanese Bamboo)!!*Polygonum douglasii* Greene (Douglas' Knotweed)*Polygonum hydropiper* L. (Common Smartweed)*Polygonum hydropiperoides* Michx. (Mild Water Pepper)*Polygonum lapathifolium* L. (Pale Smartweed)*Polygonum pensylvanicum* L. (Pinkweed)**Polygonum persicaria* L. (Lady's-thumb)*Polygonum punctatum* Ell. (Knotweed)*Polygonum ramosissimum* Michx. (Bushy Knotweed)*Polygonum sagittatum* L. (Arrow-leaved Tearthumb)*Polygonum scandens* L. (Climbing False Buckwheat)*Polygonum tenue* Michx. (Slender Knotweed)*Polygonum virginianum* L. (Jumpseed)**Rumex acetosella* L. (Sheep-sorrel)*Rumex altissimus* Wood (Pale Dock)**Rumex crispus* L. (Curly Dock)

Rumex mexicanus Meissn. (Dock)
 **Rumex obtusifolius* L. (Bitter Dock)
Rumex orbiculatus Gray (Great Water Dock)
 **Rumex patientia* L. (Patience Dock)
Rumex verticillatus L. (Swamp Dock)

PORTULACACEAE (Purslane Family)

Claytonia virginica L. (Spring Beauty)
 **Portulaca oleracea* L. (Common Purslane)
 !!*Talinum rugospermum* Holz. (Fame Flower)

PRIMULACEAE (Primrose Family)

Androsaceae occidentalis Pursh. (Western Rock Jasmine)
Dodecatheon meadia L. (Prairie Shooting-star)
Dodecatheon radicum Greene (Jeweled Shooting-star)
Lysimachia ciliata L. (Fringed Loosestrife)
Lysimachia hybrida Michx. (Loosestrife)
 **Lysimachia nummularia* L. (Moneywort)
Lysimachia quadrifolia L. (Whorled Loosestrife)
Lysimachia terrestris (L.) BSP (Swamp Candle)
Lysimachia thysiflora L. (Tufted Loosestrife)

PYROLACEAE (Wintergreen Family)

!!*Chimaphila umbellata* (L.) Bart. (Pipsissewa)
Pyrola elliptica Nutt. (Shinleaf)
 !!*Pyrola secunda* L. (One-sided Shinleaf)

RANUNCULACEAE (Crowfoot Family)

!!*Aconitum noveboracense* Gray (Monkshood)
Actaea pachypoda Ell. (White Baneberry)
Actaea rubra (Ait.) Willd. (Red Baneberry)
Anemone canadensis L. (Meadow Anemone)
Anemone cylindrica Gray (Thimbleweed)
Anemone patens L. (Pasque Flower)
Anemone quinquefolia L. (Wood Anemone)
Anemone virginiana L. (Thimbleweed)
Anemone thalictroides (L.) Spach (Rue-anemone)
Aquilegia canadensis L. (Wild Columbine)
Caltha palustris L. (Marsh Marigold)
Clematis verticillaris DC. (Purple Clematis)
Clematis virginiana L. (Virgin's-bower)
Hepatica acutiloba DC. (Liverleaf)
 !*Hydrastis canadensis* L. (Golden-seal)
Isopyrum biternatum (Raf.) T. & G. (False Rue-anemone)
Ranunculus abortivus L. (Kidneyleaf Buttercup)
 **Ranunculus acris* L. (Tall Buttercup)
Ranunculus aquatilis L. var. *capillaceus* (Thuill.) DC. (White Water-crowfoot)
Ranunculus circinatus Sibth. (White Water-crowfoot)
Ranunculus flabellaris Raf. (Yellow Water-crowfoot)
Ranunculus longirostris Godr. (White Water-crowfoot)
Ranunculus pensylvanicus L.f. (Bristly Crowfoot)
Ranunculus recurvatus Poir. (Hooked Buttercup)

Ranunculus rhomboideus Goldie (Prairie Buttercup)
Ranunculus sceleratus L. (Cursed Crowfoot)
Ranunculus septentrionalis Poir. (Swamp Buttercup)
Thalictrum dasycarpum Fisch. & Ave-Lall. (Purple Meadow-rue)
Thalictrum dioicum L. (Early Meadow-rue)

RHAMNACEAE (Buckthorn Family)

Ceanothus americanus L. (New Jersey Tea)
Ceanothus herbaceus Raf. (Redroot)
Rhamnus alnifolia L'Her. (Buckthorn)
 **Rhamnus cathartica* L. (Common Buckthorn)

ROSACEAE (Rose Family)

Agrimonia gryposepala Wallr. (Agrimony)
Agrimonia pubescens Wallr. (Downy Agrimony)
Agrimonia striata Michx. (Agrimony)
Amelanchier arborea (Michx. f.) Fern (Shadbush)
Amelanchier humilus Wieg. (Low Shadbush)
Amelanchier laevis Wieg. (Smooth Shadbush)
Amelanchier sanguinea (Pursh) DC. (Red Shadbush)
Amelanchier spicata (Lam.) K. Koch (Low Shadbush)
Crataegus calpodendron (Ehrh.) Medic. (Urn-tree Hawthorn)
Crataegus coccinea L. (Hawthorn)
Crataegus crus-galli L. (Cockspur Hawthorn)
Crataegus margareta Ashe (Margaret's Hawthorn)
Crataegus mollis (T. & G.) Scheele (Red Hawthorn)
Crataegus punctata Jacq. (Dotted Hawthorn)
Crataegus succulenta Link. (Succulent Hawthorn)
Fragaria vesca L. var. *americana* Porter (Woodland Strawberry)
Fragaria virginiana Dcne. (Wild Strawberry)
Geum aleppicum Jacq. (Yellow Avens)
Geum canadense Jacq. (White Avens)
Geum laciniatum Murr. (Rough Avens)
Geum triflorum Pursh (Prairie-smoke)
Physocarpus opulifolius (L.) Maxim. (Ninebark)
 **Potentilla argentea* L. (Silvery Cinquefoil)
Potentilla arguta Pursh (Tall Cinquefoil)
Potentilla fruticosa L. (Shrubby Cinquefoil)
Potentilla norvegica L. (Rough Cinquefoil)
 **Potentilla recta* L. (Sulfur Cinquefoil)
Potentilla simplex Michx. (Old-field Cinquefoil)
 !*Potentilla tridentata* Ait. (Three-toothed Cinquefoil)
Prunus americana Marsh. (Wild Plum)
 !*Prunus nigra* Ait. (Canada Plum)
Prunus pensylvanica L. f. (Pin-cherry)
Prunus pumila L. (Sand Cherry)
Prunus serotina Ehrh. (Black Cherry)
Prunus virginiana L. (Choke Cherry)
Pyrus ioensis (Wood) Bailey (Wild Crabapple)
 **Pyrus malus* L. (Cultivated Apple)
 !!*Rosa acicularis* Lindl. (Prickly Wild Rose)

FLORA OF ALLAMAKEE COUNTY, IOWA

Rosa arkansana Porter (Pasture Wild Rose)
Rosa blanda Ait. (Smooth Wild Rose)
Rosa carolina L. (Sunshine Wild Rose)
Rosa X rudiuscula Greene (*R. arkansana* X *R. carolina*)
Rubus allegheniensis Porter (Common Blackberry)
Rubus flagellaris L. (Northern Dewberry)
 **Rubus idaeus* L. (Cultivated Red Raspberry)
Rubus occidentalis L. (Black Raspberry)
Rubus pubescens Raf. (Dwarf Raspberry)
Rubus strigosus Michx. (Red Raspberry)
 **Sorbaria sorbifolia* (L.) A. Br. (False Spiraea)
 **Sorbus aucuparia* L. (European Mountain-ash)
Spira alba Du Roil (Meadow Sweet)

RUBIACEAE (Madder Family)

Cephalanthus occidentalis L. (Buttonbush)
Galium aparine L. (Spring-cleavers)
Galium asprellum Michx. (Rough Bedstraw)
Galium boreale L. (Northern Bedstraw)
Galium circaezans Michx. (Wild Licorice)
Galium concinnum T. & G. (Shining Bedstraw)
Galium obtusum Bigel. (Wild Madder)
Galium tinctorium L. (Stiff Bedstraw)
Galium trifidum L. (Small Bedstraw)
Galium triflorum Michx. (Sweet-scented Bedstraw)

RUTACEAE (Rue Family)

Ptelea trifoliata L. (Wafer-ash)
Zanthoxylum americanum Mill. (Northern Prickly-ash)

SALICACEAE (Willow Family)

**Populus alba* L. (Silver-leaved Poplar)
Populus balsamifera L. (Balsam Poplar)
Populus deltoides Marsh. (Cottonwood)
Populus grandidentata Michx. (Big-toothed Aspen)
Populus tremuloides Michx. (Quaking Aspen)
Salix alba L. (White Willow)
Salix amygdaloides Anderss. (Peach-leaved Willow)
 **Salix babylonica* L. (Weeping Willow)
Salix bebbiana Sarg. (Long-beaked Willow)
Salix cordata Michx. (Heart-leaved Willow)
Salix discolor Muhl. (Large Pussy-willow)
 **Salix fragilis* L. (Crack Willow)
Salix humilis Marsh. (Prairie Willow)
Salix interior Rowlee (Sandbar Willow)
 !!*Salix lucida* Muhl. (Shining Willow)
Salix nigra L. (Black Willow)
Salix petiolaris Sm. (Petioled Willow)
Salix rigida Muhl. (Heart-leaved Willow)
Salix sericea Marsh. (Silky Willow)

SANTALACEAE (Sandalwood Family)

Comandra umbellata (L.) Nutt. (Bastard Toadflax)

SAXIFRAGACEAE (Saxifrage Family)

!!*Chrysosplenium iowense* Rydb. (Golden Saxifrage)
Heuchera richardsonii R. Br. (Alumroot)
Mitella diphylla L. (Bishop's-cap)
Penthorum sedoides L. (Ditch-stonecrop)
Ribes americanum Mill. (Wild Black Currant)
Ribes cynosbati L. (Prickly Gooseberry)
Ribes missouriense Nutt. (Missouri Gooseberry)
Saxifraga pensylvanica L. (Swamp Saxifrage)
 !*Sullivantia renifolia* Rosendahl (Sullivantia)

SCROPHULARIACEAE (Figwort Family)

Aureolaria grandiflora (Benth.) Pennell (False Foxglove)
Castilleja sessiliflora Pursh (Downy Painted-cup)
Chelone glabra L. (Turtlehead)
Dasistoma macrophylla (Nutt.) Raf. (Mullein Foxglove)
Gerardia aspera Dougl. (Harsh Gerardia)
 !!*Gerardia skinneriana* Wood (False Foxglove)
Gerardia tenuifolia Vahl. (Slender False Foxglove)
Gratiola neglecta Torr. (Hedge Hyssop)
Linaria canadensis (L.) Dumont (Old-field Toadflax)
 **Linaria vulgaris* Hill (Butter-and-eggs)
Lindernia dubia (L.) Pennell (False Pimpernel)
Mimulus ringens L. (Alleghany Monkey Flower)
Pedicularis canadensis L. (Common Lousewort)
Pedicularis lanceolata Michx. (Swamp Wood Betony)
Scrophularia lanceolata Pursh (Early Figwort)
Scrophularia marilandica L. (Late Figwort)
 **Verbascum thapsus* L. (Common Mullein)
 !!*Veronica americana* (Raf.) Schw. (American Brookline)
Veronica anagallis-aquatica L. (Water Speedwell)
 **Veronica arvensis* L. (Corn Speedwell)
Veronica peregrina L. (Purslane Speedwell)
 **Veronica serpyllifolia* L. (Thyme-leaved Speedwell)
Veronicastrum virginicum (L.) Farw. (Culver's-root)

SOLANACEAE (Nightshade Family)

**Datura stramonium* L. (Jimsonweed)
 **Nicandra physalodes* (L.) Gaertn. (Apple-of-Peru)
Physalis heterophylla Nees (Ground-cherry)
Physalis longifolia Nutt. (Ground-cherry)
Physalis virginiana Mill. (Ground-cherry)
 **Solanum carolinense* L. (Horse-nettle)
 **Solanum nigrum* L. (Black Nightshade)
Solanum rostratum Dunal. (Buffalo-bur)

STAPHYLEACEAE (Bladdernut Family)

Staphylea trifolia L. (Bladdernut)

THYMELAEACEAE (Mezereum Family)

Dirca palustris L. (Leatherwood)

TILIACEAE (Linden Family)

Tilia americana L. (Basswood)

ULMACEAE (Elm Family)

- Celtis occidentalis* L. (Hackberry)
Ulmus americana L. (American Elm)
 **Ulmus pumila* L. (Siberian Elm)
Ulmus rubra Muhl. (Slippery Elm)
Ulmus thomasi Sarg. (Cork Elm)

URTICACEAE (Nettle Family)

- Boehmeria cylindrica* (L.) Sw. (Bog-hemp)
Laportea canadensis (L.) Wedd. (Wood Nettle)
Parietaria pensylvanica Muhl. (Pellitory)
Pilea fontana (Lunell) Rydb. (Firm Clearweed)
Pilea pumila (L.) Gray (Clearweed)
Urtica dioica L. (Stinging Nettle)

VALERIANACEAE (Valerian Family)

- ! *Valeriana ciliata* T. & G. (Valerian)

VERBENACEAE (Vervain Family)

- Lippia lanceolata* Michx. (Fog-fruit)
Verbena bracteata Lag. & Rodr. (Bracted Vervain)
Verbena hastata L. (Blue Vervain)
Verbena simplex Lehm. (Narrow-leaved Vervain)
Verbena stricta Vent. (Hoary Vervain)
Verbena urticifolia L. (White Vervain)
Verbena X deamii Moldenke (*V. bracteata* X *V. stricta*)

VIOLACEAE (Violet Family)

- !! *Hybanthus concolor* (T.F. Forst.) Spreng. (Green Violet)
Viola incognita Brainerd (White Violet)
Viola macloskeyi Lloyd subsp. *pallens* (Banks) Baker (Smooth White Violet)
Viola missouriensis Greene (Missouri Violet)
Viola nephrophylla Greene (Northern Blue Violet)
Viola pedata L. (Bird's-foot Violet)
Viola pedatifida G. Don (Prairie Violet)
Viola pratincola Greene (Common Blue Violet)
Viola pubescens Ait. (Smooth Yellow Violet)
Viola renifolia Gray (Kidney-leaved Violet)
Viola rugulosa Greene (White Violet)
Viola sororia Willd. (Downy Blue Violet)
Viola pedatifida X *V. pratincola*

VITACEAE (Grape Family)

- Parthenocissus quinquefolia* (L.) Planch. (Virginia Creeper)
Parthenocissus vitacea (Knerr) Hitchc. (Woodbine)
 !! *Vitis aestivalis* Michx. (Summer Grape)
Vitis riparia Michx. (River-bank Grape)

MAGNOLIOPHYTA: LILIATAE

ALISMATACEAE (Water-plantain Family)

- Alisma subcordatum* Raf. (Water-plantain)
Sagittaria cuneata Sheldon (Arrowhead)

- Sagittaria engelmanniana* J.G. Smith (Arrowhead)
Sagittaria latifolia Willd. (Common Arrowhead)

AMARYLLIDACEAE (Amaryllis Family)

- Hypoxis hirsuta* (L.) Cov. (Yellow Stargrass)

ARACEAE (Arum Family)

- Acorus calamus* L. (Sweet Flag)
Arisaema dracontium (L.) Schott (Green Dragon)
Arisaema triphyllum (L.) Schott (Jack-in-the-Pulpit)
Symplocarpus foetidus (L.) Nutt. (Skunk-cabbage)

COMMELINACEAE (Spiderwort Family)

- Tradescantia bracteata* Small (Prairie Spiderwort)
Tradescantia ohioensis Raf. (Common Spiderwort)

CYPERACEAE (Sedge Family)

- Carex abdita* Bickn. (Hidden Sedge)
 !! *Carex aggregata* Mackenz. (Glomerate Sedge)
Carex albursina Sheldon (Sedge)
Carex alopecoidea Tuckerm. (Tawny Sedge)
Carex amphibola Steud. var. *turgida* Fern. (Narrowleaf Sedge)
Carex atherodes Spreng. (Slough Sedge)
Carex backii Boott (Back's Sedge)
Carex bicknellii Britt (Bicknell's Sedge)
Carex blanda Dewey (Woodland Sedge)
Carex brevior (Dewey) Mackenz. (Fescue Sedge)
 ! *Carex careyana* Torr. (Carey's Sedge)
Carex cephaloidea (Dewey) Carey (Sedge)
Carex cephalophora Muhl. (Woodbank Sedge)
Carex communis Bailey (Colonial Sedge)
Carex convoluta Mackenz. (Sedge)
Carex cristatella Britt. (Dense-flowered Sedge)
Carex deweyana Schw. (Dewey's Sedge)
Carex eburnea Boott (Ivory Sedge)
Carex gracillima Schw. (Graceful Sedge)
Carex granularis Muhl. (Meadow Sedge)
Carex gravida Bailey (Heavy Sedge)
Carex grayii Carey (Gray's Sedge)
Carex haydenii Dewey (Hayden's Sedge)
Carex hirtifolia Mackenz. (Hairy-leaved Sedge)
Carex hitchcockiana Dewey (Hitchcock's Sedge)
Carex hystericina Muhl. (Porcupine Sedge)
Carex interior Bailey (Inland Sedge)
Carex jamesii Schw. (James' Sedge)
Carex laeviconica Dewey (Smoothcone Sedge)
Carex lasiocarpa Ehrh. (Woolly Sedge)
Carex laxiculmis Schw. (Slender Sedge)
Carex lupulina Muhl. (Hop Sedge)
Carex molesta Mackenz. (Sedge)
Carex muhlenbergii Schk. (Muhlenberg's Sedge)
Carex muskingumensis Schw. (Sedge)
Carex normalis Mackenzie (Sedge)

FLORA OF ALLAMAKEE COUNTY, IOWA

Carex oligocarpa Schk. (Few-fruited Sedge)
Carex peckii E.C. Howe (Peck's Sedge)
Carex pedunculata Muhl. (Peduncled Sedge)
Carex pensylvanica Lam. (Pennsylvania Sedge)
Carex projecta Mackenz. (Sedge)
Carex retrorsa Schw. (Reflexed Sedge)
Carex rosea Schk. (Sedge)
Carex rostrata Stokes var. *utriculata* (Boot) Bailey (Beaked Sedge)
Carex scoparia Schk. (Broom Sedge)
Carex sparganioides Muhl. (Bur-like Sedge)
Carex sprengei Dewey (Sprengel's Sedge)
Carex stipata Muhl. (Saw-beak Sedge)
Carex stricta Lam. (Tussock Sedge)
Carex tenera Dewey (Slender Sedge)
 !!*Carex tonsa* (Fern.) Bickn. (Deep Green Sedge)
Carex tribuloides Wahl. (Angled Sedge)
Carex trichocarpa Muhl. (Hairy-fruited Sedge)
Carex typhina Michx. (Cat-tail Sedge)
Carex vulpinoidea Michx. (Foxtail Sedge)
Carex woodii Dewey (Wood's Sedge)
Cyperus aristatus Rottb. (Sedge)
Cyperus engelmanni Steud. (Engelmann's Sedge)
Cyperus erythrorhizos Muhl. (Red-rooted Sedge)
Cyperus esculentus L. (Yellow Nutsedge)
Cyperus filiculmis Vahl (Fern Flatsedge)
Cyperus rivularis Kunth (Brook Flatsedge)
Cyperus schweinitzii Torr. (Schweinitz's Flatsedge)
Cyperus strigosus L. (False Nutgrass)
Eleocharis acicularis (L.) R. & S. (Needle Spikerush)
Eleocharis erythropoda Steud. (Red-footed Spikerush)
Eleocharis obtusa (Willd.) Schultes (Blunt Spikerush)
Scirpus atrovirens Willd. (Dark Green Bulrush)
Scirpus cyperinus (L.) Kunth. (Woolgrass)
Scirpus fluviatilis (Torr.) Gray (River Bulrush)
Scirpus validus Vahl (Soft-stemmed Bulrush)

DIOSCOREACEAE (Yam Family)

Dioscorea villosa L. (Wild Yam)

HYDROCHARITACEAE (Frog's-bit Family)

Elodea canadensis Michx. (Waterweed)
Elodea nuttallii (Planch.) St. John (Nuttall's Waterweed)
 !!*Vallisneria americana* Michx. (Tapegrass)

IRIDACEAE (Iris Family)

Iris virginica L. (Southern Blue Flag)
Sisyrinchium campestre Bickn. (Blue-eyed-grass)

JUNCACEAE (Rush Family)

Juncus canadensis J. Gay (Canada Rush)
Juncus dudleyi Wieg. (Dudley's Rush)
 !*Juncus effusus* L. var. *solutus* Fern. & Wieg. (Bog Rush)
Juncus nodosus L. (Knotted Rush)

Juncus tenuis Willd. (Path Rush)
Luzula acuminata Raf. (Wood Rush)
Luzula campestris (L.) DC. (Wood Rush)

LEMNACEAE (Duckweed Family)

Lemna minor L. (Duckweed)
Lemna trisulca L. (Star Duckweed)
Spirodela polyrhiza (L.) Schleid. (Water-flaxseed)
Wolffia columbiana Karst. (Water-meal)

LILIACEAE (Lily Family)

Allium canadense L. (Wild Garlic)
 !!*Allium cernuum* Roth (Nodding Wild Onion)
Allium tricoccum Ait. (Wild Leek)
 **Asparagus officinalis* L. (Garden Asparagus)
Erythronium albidum Nutt. (White Trout Lily)
 !!*Erythronium americanum* Ker. (Yellow Trout Lily)
 **Hemerocallis fulva* L. (Day Lily)
Lilium canadense L. (Wild Yellow Lilly)
Lilium michiganense Farw. (Turk's Cap Lily)
Lilium philadelphicum L. (Wood Lily)
Maianthemum canadense Desf. (Wild Lily-of-the-valley)
Polygonatum biflorum (Walt.) Ell. (Solomon's Seal)
Polygonatum pubescens (Willd.) Pursh (Small Solomon's Seal)
Smilacina racemosa (L.) Desf. (False Solomon's Seal)
Smilacina stellata (L.) Desf. (Small False Solomon's Seal)
 !*Streptopus roseus* Michx. (Rosy Twisted Stalk)
Trillium flexipes Raf. (White Trillium)
Trillium nivale Riddell (Snow Trillium)
Uvularia grandiflora Sm. (Large Bellwort)
Zigadenus glaucus Nutt. (White Camass)

NAJADACEAE (Naiad Family)

Najas flexilis (Willd.) Rostk. & Schmidt. (Naiad)
Zannichellia palustris L. (Horned Pondweed)

ORCHIDACEAE (Orchid Family)

!*Aplectrum hyemale* (Muhl.) Torr. (Adam-and-Eve Orchid)
Corallorhiza maculata Raf. (Spotted Coral-root Orchid)
Cypripedium calceolus L. var. *pubescens* (Willd.) Correll (Yellow Lady-slipper Orchid)
 !*Cypripedium candidum* Muhl. (White Lady-slipper Orchid)
 !!*Cypripedium reginae* Walt. (Showy Lady-slipper Orchid)
Goodyera pubescens (Willd.) R. Br. (Downy Rattlesnake-plantain Orchid)
 !*Habenaria hookeri* Torr. (Hooker's Orchid)
 !*Habenaria pycnodes* (L.) Spreng. (Small Purple Fringed Orchid)
Habenaria viridis (L.) Br. var. *bracteata* (Muhl.) Gray (Bracted Orchid)
Liparis lilifolia (L.) Rich. (Lilia-leaved Twayblade Orchid)
Liparis loeselii (L.) Rich. (Yellow Twayblade Orchid)
Orchis spectabilis L. (Showy Orchid)
Spiranthes cernua (L.) Rich. (Nodding Ladies'-tresses Orchid)
Triphora trianthophora (Sw.) Rydb. (Three Birds Orchid)

POACEAE (Grass Family)

- *Agropyron desertorum* (Fisch.) Schult. (Wheat Grass)
**Agropyron repens* (L.) Beauv. (Witch-grass)
Agropyron trachycaulum (Link) Malte (Wheat Grass)
**Agrostis gigantea* Roth. (Red Top)
Agrostis hyemalis (Walt.) BSP (Tickle Grass)
Agrostis perennans (Walt.) Tuckerm. (Upland Bent Grass)
**Agrostis stolonifera* L. var. *stolonifera* (L.) Koch (Redtop)
Alopecurus aequalis Sobol. (Foxtail)
Andropogon gerardii Vitm. (Tall Blue-stem)
Andropogon scoparius Michx. (Small Blue-stem)
Aristida basiramea Engelm. ex Vasey var. *basiramea* (Triple-awned Grass)
Aristida oligantha Michx. (Three Awn)
Aristida tuberculosa Nutt. (Needle Grass)
**Avena sativa* L. (Cultivated Oats)
Bouteloua curtipendula (Michx.) Torr. var. *curtipendula* (Tall Grama Grass)
Bouteloua hirsuta Lag. (Grama Grass)
Brachyelytrum erectum (Schreb.) Beauv. (Bearded Shorthusk)
Bromus ciliatus L. (Brome Grass)
**Bromus inermis* Leyss. (Hungarian Brome Grass)
**Bromus japonicus* Thunb. (Japanese Chess)
Bromus kalmii Gray (Kalm's Brome Grass)
Bromus latiglumis (Scribn.) Hitch. (Brome Grass)
Bromus pubescens Muhl. (Canada Brome Grass)
Bromus purgans L. f. *incanus* Shear (Brome Grass)
**Bromus tectorum* L. (Downy Chess)
Calamagrostis canadensis (Michx.) Beauv. (Blue-joint)
Cenchrus longispinus (Hack.) Fern. (Sandbur)
Cinna arundinacea L. (Wood Reedgrass)
**Dactylis glomerata* L. (Orchard Grass)
Danthonia spicata (L.) Beauv. (Poverty Grass)
**Digitaria ischaemum* (Schreb.) Muhl. (Crab Grass)
**Digitaria sanguinalis* (L.) Scop. (Crabgrass)
**Echinochloa crusgalli* (L.) Beauv. (Barnyard Grass)
Echinochloa muricata (Beauv.) Fern. (Barnyard Grass)
Elymus canadensis L. (Canadian Wild Rye)
Elymus riparius Wieg. (River-bank Wild Rye)
Elymus villosus Muhl. (Slender Wild Rye)
Elymus virginicus L. (Terrell Grass)
**Eragrostis cilianensis* (All.) Link (Stink Grass)
Eragrostis frankii C.A. Mey. var. *frankii* (Love Grass)
Eragrostis hypnoides (Lam.) BSP (Pony Grass)
Eragrostis pectinacea (Michx.) Nees (Love Grass)
Eragrostis spectabilis (Pursh) Steud. (Petticoat Climber)
**Festuca pratensis* Huds. (Meadow Fescue)
Festuca obtusa Biehler (Nodding Fescue)
Festuca octoflora Walt. var. *tenella* (Willd.) Fern. (Six-weeks Grass)
**Festuca rubra* L. (Red Fescue)
Glyceria grandis S. Wats. (Reed Meadow Grass)
Glyceria striata (Lam.) Hitchc. (Fowl Meadow Grass)
Hordeum jubatum L. (Squirreltail Grass)
Hystrix patula Moench (Bottle-brush Grass)
Koeleria macrantha (Ledeb.) Schultes (June Grass)
Leersia lenticularis Michx. (Catchfly Grass)
Leersia oryzoides (L.) Sw. (Rice-cutgrass)
Leersia virginica Willd. (White Grass)
Leptoloma cognatum (Schult.) Chase (Fall Witch Grass)
Melica nitens Nutt. (Three Flowered Melic Grass)
Milium effusum L. (Millet-grass)
**Miscanthus sacchariflorus* (Maxim.) Hack. (Plume Grass)
Muhlenbergia mexicana (L.) Trin. (Wirestem Muhly)
Muhlenbergia racemosa (Michx.) BSP (Marsh Muhly)
Muhlenbergia schreberi Gmel. (Nimble Will)
Muhlenbergia sobolifera (Muhl.) Trin. (Rock Muhly)
Oryzopsis asperifolia Michx. (Mountain-rice)
!!Oryzopsis racemosa (Sm.) Ricker (Rice Grass)
Panicum capillare L. (Old Witch Grass)
Panicum columbianum Scribn. (Panic Grass)
Panicum commonsianum Ashe var. *euchlamydeum* (Shinners) Pohl (Common's Panicum)
Panicum implicatum (Scribn.) Fern. (Woolly Panic Grass)
Panicum latifolium L. (Broad-leaved Panic Grass)
Panicum leibergii (Vasey) Scribn. (Leiberg's Panicum)
Panicum meridionale Ashe (Panic Grass)
Panicum perlongum Nash (Elongate Panicum)
Panicum praecocius Hitchc. & Chase (Early Panicum)
Panicum scribnerianum Nash (Small Panic Grass)
Panicum virgatum L. (Switch Grass)
Panicum wilcoxianum Vasey (Wilcox Panicum)
Paspalum ciliatifolium Michx. (Bead Grass)
Phalaris arundinacea L. (Reed Canary Grass)
**Phleum pratense* L. (Common Timothy)
Phragmites australis (Cav.) Steud. (Reed Grass)
**Poa annua* L. (Annual Bluegrass)
**Poa compressa* L. (Canada Bluegrass)
!!Poa languida Hitchc. (Woodland Bluegrass)
Poa paludigena Fern. & Wieg. (Marsh Bluegrass)
Poa palustris L. (Fowl Meadow Grass)
**Poa pratensis* L. (Kentucky Bluegrass)
Poa sylvestris Gray (Woodland Bluegrass)
**Poa trivialis* L. (Meadow Grass)
Poa wolfii Scribn. (Meadow Bluegrass)
Schizachne purpurascens (Torr.) Swallen (False Melic Grass)
**Secale cereale* L. (Rye)
**Setaria faberii* Herrm. (Giant Foxtail)
**Setaria glauca* (L.) Beauv. (Yellow Foxtail)
**Setaria viridis* (L.) Beauv. (Green Foxtail)
Sorghastrum nutans (L.) Nash (Indian Grass)

Spartina pectinata Link (Slough Grass)
Sphenopholus obtusata (Michx.) Scribn. var. *major* (Torr.) Erdm.
 (Wedge Grass)
Sphenopholus obtusata (Michx.) Scribn. var. *obtusata* (Prairie Wedge
 Grass)
Sporobolus asper (Michx.) Kunth (Dropseed)
Sporobolus cryptandrus (Torr.) Gray (Sand Dropseed)
Sporobolus heterolepis Gray (Northern Dropseed)
Sporobolus neglectus Nash (Sheathed Dropseed)
Sporobolus vaginiflorus (Torr.) Woods (Poverty Grass)
Stipa spartea Trin. (Porcupine Grass)
Tridens flavus (L.) Hitchc. (Purpletop)
 **Zea mays* L. (Cultivated Corn)
 †*Zizania aquatica* L. var. *aquatica* (Wild Rice)

PONTEDERIACEAE (Pickerel-weed Family)

Heteranthera dubia (Jacq.) MacM. (Water Star-grass)

POTAMOGETONACEAE (Pondweed Family)

Potamogeton berchtoldii Fieber (Berchtold's Pondweed)
 **Potamogeton crispus* L. (Crimped Pondweed)
Potamogeton foliosus Raf. (Leafy Pondweed)
Potamogeton nodosus Poir. (Long-leaved Pondweed)
Potamogeton pectinatus L. (Sago Pondweed)
Potamogeton richardsonii (Benn.) Rydb. (Red-head Pondweed)
Potamogeton zosteriformis Fern. (Flat-stem Pondweed)

SMILICACEAE (Greenbrier Family)

Smilax ecirrhata (Engelm.) Wats. (Greenbrier)
Smilax herbacea L. (Carrion-flower)
Smilax hispida Muhl. (Catbrier)

SPARGANIACEAE (Bur-reed Family)

Sparganium eurycarpum Engelm. (Bur-reed)

TYPHACEAE

Typha angustifolia L. (Narrow-leaved Cat-tail)
Typha latifolia L. (Common Cat-tail)
Typha X glauca Godr. (*T. angustifolia X T. latifolia*)

SUMMARY OF CHECKLIST

124 Families
 444 Genera
 1040 Taxa (species plus hybrids)

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