A Checklist of the Vascular Flora of Lee County, Iowa

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The vascular flora of Lee County, Iowa, based upon field and herbarium study, is composed of 876 taxa (species plus hybrids), including 25 endangered and 5 threatened Iowa species. Naturalized species totaled 154. The study added 318 species to the county flora, a 57% increase to the flora of what had been called one of Iowa’s “best collected counties.” Two species are reported as additions to the state flora: Habenaria lacera (Michx.) Lodg. and Vitis baileyana Munson. The flora is most notable for the presence of many species which do not occur much farther northward in Iowa, being plants with floristic affinity to the Ozark Plateau in Missouri.

INDEX DESCRIPTORS: Endangered Plant Species, Iowa Vascular Flora, Lee County Flora, Threatened Plant Species.

Lee County, located in extreme southeastern Iowa, is adjacent to Missouri and Illinois and bounded on the east by the Mississippi River, on the south by the Des Moines River, and on the north by the Skunk River. The landscape is composed of 1) extensive alluvial deposits along the Mississippi and Des Moines rivers and 2) a relatively flat, but dissected upland surface which is the southeastern extremity of the Southern Iowa Drift Plain (Prior, 1976). The few exposures of rock in the county are shales and limestones located in the bluffs of the Des Moines and Mississippi rivers (Keyes, 1893). The soils provide a thick covering over the bedrock, being formed from a variety of transported parent materials, including Nebraskan and Kansan drift, Illinoisian and Wisconsin age loess, and alluvium (Lockridge, 1979; Stevenson and Brown, 1918). The soils are classified into four major associations: 1) Clinton-Keswick-Lindley, 2) Grundy-Haig, 3) Lindley-Keswick-Wel­ler, and 4) Otley-Mahaska-Taintor (Oschwald, et al., 1974). At the time of settlement, the county was 75% woodland and 25% prairie (Stevenson and Brown, 1918). The forests are typified by oak-hickory communities with a few maple-basswood stands on especially steep north-facing slopes.

Although Iowa is typified by mid-continental climate, the extremes characteristic of this climatic-type are least apparent in Iowa in Lee County. The average annual temperature in Lee County is 52°F, with a January mean of 24°F. Rainfall in Lee County is the highest in the state, with an average of over 34 inches covering over the bedrock, being formed from a variety of transported parent materials, including Nebraskan and Kansan drift, Illinoisian and Wisconsin age loess, and alluvium (Lockridge, 1979; Stevenson and Brown, 1918). The soils are classified into four major associations: 1) Clinton-Keswick-Lindley, 2) Grundy-Haig, 3) Lindley-Keswick-Wel­ler, and 4) Otley-Mahaska-Taintor (Oschwald, et al., 1974). At the time of settlement, the county was 75% woodland and 25% prairie (Stevenson and Brown, 1918). The forests are typified by oak-hickory communities with a few maple-basswood stands on especially steep north-facing slopes.

The checklist format employed in this report provides a functional statement on Lee County floristic data. Additional

of other rare Iowa plants on the same bluff, such as Fraxinus quad­rangulata (Blue Ash). In their review of Iowa floristic studies, Gilly (1948) and Thorne (1954), both considered Lee County to be one of the best collected counties in the state.

As part of a doctoral research program, Davidson (1957; 1959; 1960) conducted additional floristic studies in Lee County, as part of his flora of southeastern Iowa. Davidson (1957) included dot maps in his unpublished dissertation which documented a county flora of 558 species for Lee County. Changes in nomenclature and insistence on herbarium specimen documentation account for the lower flora total noted by Davidson as compared to Fults. However, we noted many obvious omissions in the lists compiled by Fults (1934) and Davidson (1957), indicating to us that additional field survey and herbarium search was needed.

Another reason for conducting the survey in Lee County, was an awareness of the impact by man which was rapidly eliminating opportunities to observe or possibly preserve remaining natural areas. According to Thomson (1980), only 25% of the original area of woodland remains in trees, with the original woods of 180,000 acres (ca. 72,000 ha) in 1832 declining to 60,000 acres (ca. 24,000 ha) by 1875 following settlement. Today, 50,000 acres (ca. 20,000 ha) of woodlands remain, with much of it having been thinned, cut, or grazed to some extent. Recent investigations by Lammers (1977; 1980) on the flora and vegetation of Lee County has noted the extent of impact, especially on the floodplain of the Mississippi River wherein agricultural, navigational, flood control, and drainage projects have greatly reduced the wetlands, oxbows, lakes, and marshes which were once plentiful. Intact prairie is virtually non-existent, being converted by the plow to rowcrops early in settlement and on sandy prairies more recently with the advent of modern irrigation methods. Consequently, efforts to survey and inventory the remaining natural areas in Lee County were needed before too many other habitats also declined.

During 1979, the State Preserves Advisory Board sponsored a natural history foray in Lee County to conduct a preliminary survey for natural areas and to commence inventory of the flora and fauna. The foray initiated the preparation of this vascular flora, which is the third county flora prepared in conjunction with such forays. Earlier floras were prepared for Allamakee County (Peck, Roosa, & Eilers, 1980) and Fremont County (Peck, Eilers, & Roosa, 1978).

The checklist format employed in this report provides a functional (albeit terse) statement on Lee County floristic data. Additional

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data exist in the form of specimen label data, but space considerations preclude their publication. With implementation of BIOBANK (Eilers, 1979), a computer assisted specimen data system for the Iowa flora, such data will be compiled, stored, and be more conveniently available than at present. This report adds Lee County to the list of Iowa counties which have been treated with modern summaries of their flora (Eilers, 1975).

METHODS

Field collections were made mainly in 1979, with limited collecting from 1976 through 1980. All 15 of Davidson’s collecting stations were visited. Additional stations of botanical interest were also located. Special emphasis was placed on a survey of the diverse habitats located within Shimek State Forest (Croton, Donnellson, Farmington, and Lick Creek Units). The extent of woodland and wetlands in the county exceeded our ability to conduct a complete search for natural areas. Although we added significantly to the flora of the county, continued field work would likely add to the county flora, possibly to the state flora, and would almost certainly locate additional stations of botanical interest.

Herbarium search was conducted 1) to corroborate the occurrence of species which were reported by Fults (1934) and Davidson (1957; 1959), but which were not observed during the foray and 2) to completely search the Iowa State University herbarium which was only partially examined by Davidson. Searches for Lee County plants were conducted at Iowa State University, University of Iowa, and University of Northern Iowa. Limited searches were conducted at Iowa Wesleyan College and Maharishi International University. Our vouchers were deposited at Iowa State University and University of Northern Iowa.

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, Jersey, and Michel (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), ferns and fern allies (Peck, 1976), and aquatic and wetland plants (Lammers & van der Valk, 1977; 1979), 2) regional manuals (Fernald, 1950; Gleason & Cronquist, 1963), and 3) state manuals of Illinois (Mohlenbrock, 1975; Mohlenbrock & Ladd, 1978) and Missouri (Steyermark, 1963). The list is annotated with an asterisk (*) before the binomial of non-native but naturalized plants, a double exclamation mark (!!) before an Iowa endangered plant, and a single exclamation mark (!) before an Iowa threatened plant (Roosa & Eilers, 1978).

Non-indigenous plants have been introduced into Shimek State Forest in the form of three plantations. We did not incorporate these species into the flora, even though some were reproducing successfully, since it was obvious that these plants had been planted by man in an equidistant grid. Plantations of the following species were observed: Liriodendron tulipifera (Tulip Tree), Larix laricina (American Larch), Picea glauca (White Spruce), Pinus banksiana (Jack Pine), Pinus echinata (Shortleaf Pine), Pinus nigra (Austrian Pine), Pinus ponderosa (Ponderosa Pine), Pinus pungens (Table Mountain Pine), Pinus resinosa (Red Pine), Pinus rigida (Pitch Pine), Pinus strobus (White Pine), Pinus sylvestris (Scotch Pine), and Pinus virginiana (Virginia Pine). On the other hand, other plants which are non-indigenous were listed, since they spread on their own and appear native. We added two species, Zea mays and Glycine max (corn and soybeans), as they were common along roadsides, not intentionally planted, and rarely became fertile, making their identity less obvious. These last two species, however, are not naturalized, but significant escapes from cultivation.

VASCULAR PLANT CHECKLIST

A total of 876 taxa (species plus hybrids) is reported, including 154 non-native, but naturalized species. Even though Lee County was “one of the best collected counties” in the state (Gilly (1948; Thorne, 1954), we added 318 species (57% increase) to the flora extracted from Davidson (1957). Two species were added to the state flora: Habenaria lacera and Viola baileyana. The orchid was collected in the 1920’s and had been overlooked by Iowa botanists until noted by one of us (TGL) when searching the Iowa Wesleyan College herbarium. The grape is new to the state, but may be treated with a lesser hierarchical rank as a variety of V. vulpina. The magnitude of the additions to the Lee County flora suggests to us that floristic efforts are probably equally rewarding in many other of Iowa’s best collected counties, but especially so in southern Iowa.

One aspect of the Lee County flora warranting special mention is the presence of many plants with geographical affinity to the Ozark Plateau, as noted by Roosa and Eilers (1978) and Lammas (1980). Species in the Lee County flora which illustrate this include Asimina triloba, Aster linearifolia, Carex crinita, C. deweyana, C. hispella, C. lirida, C. shortiana, Cercis canadensis, Danthonia spicata, Fraxinus quadridolia, Lespedeza procumbens, Quercus marilandica, Q. muehlenberrii, Q. stellata, Rhus aromatica, Sassafras albidum, Scirpus carolinianus, Veratrum virginianum, and Veratrum woodii. These species tend to not occur very far north in Iowa, but may be found in abundance to the south in Missouri (Steyermark, 1963).

The flora included 25 endangered and 5 threatened Iowa species. This number is lower than what we expected, based upon the county’s position next to Missouri and Illinois and on its relatively large flora for an Iowa county (Thorne, 1954). The low number of endangered species probably reflects several aspects, including 1) absence of extensive rock outcrops, 2) essentially total elimination of upland prairie vegetation, 3) almost complete loss of floodplain sand prairies, 4) the lack of barriers restricting species to Lee County (Mississippi and Des Moines rivers are natural dispersal and migration routes), and 5) the earlier settlement (1820’s) and longer cultivation of Lee County, as compared to the rest of Iowa.

Since habitat depletion or elimination has continued for over 160 years, any remaining natural vegetation or recovering vegetation, such as is found within Shimek State Forest, is a significant expression of Iowa’s natural heritage. The checklist provided will facilitate future natural area inventories in Lee County.

EQUISETOPHYTA

EQUISETACEAE (Horsetail Family)

Equisetum arvense L. (Field Horsetail)
Equisetum hyemale L. (Common Horsetail)
Equisetum laevigatum A. Br. (Smooth Scouring-rush)
Equisetum X ferrissii Clute (E. hyemale X laevigatum)

POLYPODIOPHYTA

ADIANTACEAE (Maidenhair Fern Family)

Adiantum pedatum L. (Northern Maidenhair Fern)

ASPLENIACEAE (Common Fern Family)

Asplenium platyneuron (L.) Oakes ex D. C. Eat. (Ebony Spleenwort)
Althyrium angustum (Willd.) Presl (Northern Lady Fern)
### Vascular Flora of Lee County, Iowa

**Cystopteris bulbifera** (L.) Bernh. (Bulblet Fern)
**Cystopteris fragilis** (L.) Bernh. var. mackayi Laws. (Mackay’s Fragile Fern)
**Cystopteris prostrata** (Weath.) Bladdell (Crested Fragile Fern)
**Dryopteris cristata** (L.) Gray (Crested Wood Fern)
**Dryopteris spinulosa** (O. F. Muell.) Watt (Spinulose Wood Fern)
**Matteuccia struthioperis** (L.) Tod. (Ostrich Fern)
**Onoclea sensibilis** L. (Sensitive Fern)
**Polystichum acrostichoides** (Michx.) Schott (Christmas Fern)
**Woodia obtusa** (Spreng.) Torr. (Blunt-lobed Cliff Fern)

**OPHIOGLOSSACEAE** (Adder’s-tongue Fern Family)

**Botrychium virginianum** (L.) Sw. (Rattlesnake Fern)
**OSMUNDACEAE** (Royal Fern Family)

**Osmunda claytoniana** L. (Interrupted Fern)

**THELYPTERIDACEAE** (Marsh Fern Family)

**Thelypteris palustris** (L.) Schott (Marsh Fern)

**PINOPHYTA**

**CUPRESSACEAE** (Cypress Family)

**Juniperus virginiana** L. (Red Cedar)

**MAGNOLIOPHYTA**

**MAGNOLIATAE** (Dicots)

**ACANTHACEAE** (Acanthus Family)

**Achillea millefolium** L. (Yarrow)

**ARISTOLOCHIACEAE** (Birthwort Family)

**Asarum canadense** L. (Wild Ginger)

**ASCLEPIADACEAE** (Milkweed Family)

**Asclepias amplexicaulis** Sm. (Clasping Milkweed)
**Asclepias hirtella** (Pennell) Woodson (Glossy Milkweed)
**Asclepias incarnata** L. (Swamp Milkweed)
**Asclepias purpurea** L. (Purple Milkweed)
**Asclepias quadrifolia** Jacq. (Four-leafed Milkweed)
**Asclepias syriaca** L. (Common Milkweed)
**Asclepias tuberosa** L. (Butterfly Weed)
**Asclepias verticillata** L. (Whorled Milkweed)
**Cynanchum laeve** (Michx.) Pers. (Bluevines)

**ASTERACEAE** (Aster Family)

**Achillea millefolium** L. (Common Yarrow)
Ambrosia artemisifolia L. (Common Ragweed)
Ambrosia psilostachya DC. var. coronopifolia (T. & G.) 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 Sch. (Common Burdock)
Artemisia campestris L. ssp. caudata (Michx.) Hall & Clem. (Wormwood)
Aster azureus L. (Blue Wood 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 pratensis L. (Field Pussytoes)
Aster pilosus Willd. (Heath Aster)
Aster praealtus Poir. (Willow 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 turbinellus Lindl. (Flort-flower)
Bidens bipinnata L. (Spanish Needles)
Bidens cernua L. (Stick-tights)
Bidens comosa (Gray) Weig. (Beggar’s-ticks)
Bidens coronata (L.) Britt. (But-marigold)
Bidens frondosa L. (Beggar’s-ticks)
Bidens polylepis Blake (Swamp Marigold)
Bidens vulgata Greene (Tall Beggar’s-ticks)
Boltonia asteroides (L.) H. Her. (Boltonia)
Cacalia atriplicifolia L. (Pale Indian-plantain)
*Centarea cyanus L. (Batchelor’s-botton)
*Chrysanthemum leucanthemum L. (Ox-eye Daisy)
*Cichorium intybus L. (Chichory)
Cirsium altissimum (L.) Spreng. (Tall Thistle)
*Cirsium arvense (L.) Scop. (Canada Thistle)
Cirsium discolor (Muhl.) Spreng. (Field Thistle)
!!Cirsium undulatum (Nutt.) Spreng. (Undulate Thistle)
Conyza canadensis (L.) Cronq. (Horseweed)
Conyza rossimontis Cronq. (Horseweed)
*Coreopsis lanceolata L. (Lance-shaped Tickseed)
Coreopsis palmae Nutt. (Stiff Tickseed)
Dysodia papposa (Vent.) Hitchc. (Fetid Marigold)
Echinacea pallida Nutt. (Purple Coneflower)
Eclipta alba (L.) Hassk. (Yerba de Tajo)
Erchites hieracifolia (L.) Raf. (Pilewort)
*Erigeron annuus (L.) Pers. (Daisy Fleabane)
Erigeron philadelphicus L. (Common Fleabane)
*Erigeron strigosus Muhl. (Daisy Fleabane)
Eupatorium altissimum L. (Thoroughwort)
Eupatorium perfoliatum L. (Boneset)
Eupatorium purpureum L. (Sweet-stemmed Joe-Pye-weed)
Eupatorium rugosum Houtt. (White Snakeroot)
Eupatorium serotinum Michx. (Late Flowering Snakeroot)
*Galinsoga ciliata (Raf.) Blake (Hairy Galinsoga)
Gnaphalium obtusifolium L. (Everlasting)
Gnaphalium purpureum L. (Purple Cudweed)
Helenium autumnale L. (Sneezeweed)
Helianthus annuus L. (Common Sunflower)

Helianthus grosseserratus Martens (Serrate Sunflower)
Helianthus laetiflorus Pers. (Beautiful Sunflower)
Helianthus occidentalis Ridell (Western Sunflower)
Helianthus petiolaris Nutt. (Petioled Sunflower)
Helianthus strumosus L. (Pale-leaved Wood Sunflower)
*Helianthus tuberosus L. (Jerusalem-artichoke)
Heliopsis helianthodes (L.) Sweet (Ox-eye)
Hieracium longipilum Torr. (Long-haired Hawkweed)
Hieracium scabrum Michx. (Rough Hawkweed)
Krigia biflora (Walt.) Blake (Two-flowered Dwarf Dandelion)
Kuhnia eucarpoides L. (False Boneset)
Lactuca canadensis L. (Canadian Lettuce)
*Lactuca serriola L. (Prickly Lettuce)
Liatris aspera Michx. (Rough Blazing Star)
Liatris cylindrica Michx. (Cylindrical Blazing Star)
Liatris pycnostachya Michx. (Crowded Blazing Star)
*Marratia mattrioides (Less.) Porter (Pine-apple Weed)
Parthenium integrifolium L. (Wild Quinine)
Polymnia canadensis L. (Leafcup)
Prenanthes alba L. (White Rattlesnake-root)
Prenanthes aspera Michx. (Harsh Rattlesnake-root)
Ratibida pinnata (Vent.) Barnh. (Prairie-coneflower)
Rudbeckia hirta L. (Black-eyed Susan)
Rudbeckia laciniata L. (Green-headed Coneflower)
Rudbeckia triloba L. (Thin-leaved Coneflower)
Senecio pauperculus Michx. (Balsam Ragwort)
Silphium integrifolium Michx. (Entire-leaved Rosinweed)
Silphium linatium L. (Compass Plant)
Silphium perfoliatum L. (Cup Plant)
Solidago canadensis L. (Canadian Goldenrod)
Solidago flexiculoides L. (Ziggag Goldenrod)
Solidago gigantea Ait. (Lat Goldenrod)
Solidago graminifolia (L.). Salisb. (Grass-leaved Goldenrod)
Solidago missouriensis Nutt. (Missouri Goldenrod)
Solidago nemoralis Ait. (Gray Goldenrod)
Solidago rigidia L. (Stiff Goldenrod)
Solidago speciosa Nutt. (Showy Goldenrod)
Solidago ulmifolia Muhl. (Elm-leaved Goldenrod)
*Sonchus asper (L.) Hill (Spiny Sow-thistle)
*Sonchus oleraceus L. (Common Sow-thistle)
*Tanacetum vulgare L. (Tansy)
*Taraxacum laevigatum (Wild.) DC. (Red-seeded Dandelion)
*Taraxacum officinale Weber (Common Dandelion)
*Tragopogon dubius Scop. (Goat’s Beard)
Verbesina alternifolia (L.) Britt. (Wings-tem)
Vernonia baldwinii Torr. (Ironweed)
Vernonia fasciculata Michx. (Bunched Ironweed)
Vernonia gigantea (Walter) Trel. (Tall Ironweed)
Vernonia missurica Raf. (Missouri Ironweed)
Vernonia baldwinii X fasciculata
Vernonia fasciculata X gigantea
*Xanthium spinosum L. (Spiny Cocklebur)
Xanthium strumarium L. (Cockle-bur)

BALSAMINACEAE (Touch-me-not Family)

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

BERBERIDACEAE (Barberry Family)
*Berberis thunbergii DC. (Japanese Barberry)
*Berberis vulgaris L. (Common Barberry)
Calophyllum thalictroides (L.) Michx. (Blue Cohosh)
VASCULAR FLORA OF LEE COUNTY

Podophyllum peltatum L. (May-apple)

**BETULACEAE** (Birch Family)

Betula nigra L. (River Birch)
Corylus americana Walt. (American Hazel)
Ostrya virginiana (Mill.) K. Koch (Hop Hornbeam)

**BIGNONIACEAE** (Catalpa Family)

Campsis radicans (L.) Seem. (Trumpet creeper)
*Catalpa speciosa* Warder (Cigar-tree)

**BORAGINACEAE** (Borage Family)

*Calystegia sepium* L. (Hound's-tongue)
*Echium vulgare* L. (Blueweed)
Hackelia defixa (Wahl.) Opiz (Beggar's Lice)
Hackelia virginiana (L.) Johnst. (Stickseed)
*Lappula myosotis* Moench (European Stickseed)
*Lithospermum arvense* L. (Corn-gromwell)
*Lithospermum caroliniense* (J.F. Gmel.) MacM. (Puccoon)
*Mertensia virginiana* (L.) Pers. (Bluebells)
*Myosotis verna* Nutt. (Scorpion-grass)

**BRASSICACEAE** (Mustard Family)

Arabis canadensis L. (Sickle-pod)
*Barbarea vulgaris* R. Br. (Yellow Rocket)
*Brassica juncea* (L.) Coss. (Chinese Mustard)
*Brassica nigra* (L.) Koch (Black Mustard)
*Capsella bursa-pastoris* (L.) Medic. (Shepherd's Purse)
Cardamine pensylvanica Muhl. (Bitter Cress)
Dentaria laciniate Muhl. (Toothwort)
Descrudaria pinnata (Walt.) Britt. (Tansy-mustard)
*Draba reptans* (Lam.) Fern. (Whitlow Grass)
*Erysimum cheiranthoides* L. (Wormed Mustard)
*Erysimum repandum* L. (Treacle Mustard)
*Erysimum rutaceum* (R. Br.) (Cassy Mustard)
*Lepidium campestre* (L.) R. Br. (Cow-cress)
*Lepidium densiflorum* Schrad. (Peppergrass)
*Lepidium virginicum* L. (Poor-man's Pepper)
*Rorippa islandica* (Oeder) Borbas (Yellow Cress)
*Rorippa sessiliflora* (L.) Hitchc. (Sessile-flowered Yellow Cress)
*Sisymbrium officinale* (L.) Scop. (Hedge Mustard)
*Thlaspi arvense* L. (Penny-Cress)

**CAMPANULACEAE** (Bluebell Family)

Campanula americana L. (Tall Bellflower)
*Campanula rotundifolia* (L.) Lam. (Round-leaved Bellflower)
*Campanula Vladimira* L. (Long-bloomed Bellflower)
*Campanula persicifolia* L. (Pare Bellflower)
*Campanula rotundifolia* L. (Round-leaved Bellflower)
*Campanula persicifolia* L. (Pare Bellflower)
*Campanula Vladimira* L. (Long-bloomed Bellflower)
*Campanula rotundifolia* L. (Round-leaved Bellflower)
*Campanula persicifolia* L. (Pare Bellflower)
*Campanula Vladimira* L. (Long-bloomed Bellflower)

**CANNABINACEAE** (Hemp Family)

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

**CAPRARIDACEAE** (Caper Family)

Polansia dodecandra (L.) DC. (Clammyweed)

**CAPRIFOLIACEAE** (Honeysuckle Family)

Lonicer a dioica L. (Honeysuckle)
*Lonicer a dioica* L. var. dioica (Wild Honeysuckle)
*Lonicer a dioica* L. var. glaucescens (Rydberg) Butters (Wild Honey-suckle)
*Lonicer a proliﬁera* (Kirchn.) Rehd. (Wild Grape-honeysuckle)
*Sambucus canadensis* L. (Common Elder)
*Symphoricarpos orbiculatus* Moench. (Coralberr)
*Triosteum aurantiacum* (Bickn.) Wieg. (Wild Coffee)
*Triosteum perfoliatum* L. (Tinker's Weed)
*Viburnum dentatum* L. (Southern Arrow-wood)
*Viburnum lentago* L. (Nannyberry)

**CARYOPHYLLACEAE** (Pink Family)

*Agrostemma githago* L. (Corncockle)
*Arenaria lateriflora* L. (Grove Sandwort)
*Cerastium nutans* Raf. (Nodding Mouse-ear Chickweed)
*Cheiranthus cheiri* L. (Common Mouse-ear Chickweed)
*Dianthus armeria* L. (Carnation)
*Lycnis alba* Miller (White Campion)
*Paronychia canadensis* (L.) Wood (Forked Chickweed)
*Paronychia fastigata* (L.) Fern. (Forked Chickweed)
*Saponaria officinalis* L. (Soapwort)
Silene antirrhina L. (Sleepy Catch-fly)
Silene nivea (Nutt.) Ott. (Snowy Campion)
*Silene cserei* Baumg. (Slender-campion)
*Silene stellata* (L.) Ait.f. (Starry Campion)
*Stellaria media* (L.) Cyrillo (Common Chickweed)

**CELASTRACEAE** (Staff-tree Family)

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

**CERATOPHYLLACEAE** (Hornwort Family)

*Ceratophyllum demersum* L. (Coontail)

**CHENOPODIACEAE** (Goosefoot Family)

*Chenopodium album* L. (Lamb's-quarter)
*Chenopodium ambrosioides* L. (Mexican Tea)
*Chenopodium botrys* L. (Jerusalem-owl)
*Chenopodium deserticatum Nelson (Slender-leaved Goosefoot)
*Chenopodium standleyanum* Aellen (Standley's Goosefoot)
*Cycloloma atriplicifolium* (Treacle Mustard)
*Hedysarum scoparia* (L.) Schrad. (Summer Cypress)
*Salsola iberica* Pau (Russian-thistle)

**CISTACEAE** (Rockrose Family)

Lechea mucronata Raf. (Pinweed)
Lechea tenuifolia Michx. (Slender Pinweed)

**CONVOLVULACEAE**

*Convolvulus arvensis* L. (Field Bindweed)
*Convolvulus sepium* L. (Wild Morning Glory)
*Ipomoea hederacea* Jacq. (Ivy-leaved Morning-glory)
*Ipomoea pandurata* (L.) G.F.W. Meyer (Wild Sweet-potato)

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*Ipomea purpurea* (L.) Roth (Common Morning-glory)

**CORNACEAE** (Dogwood Family)

*Cornus drummondii* Meyer (Rough-leaved Dogwood)
*Cornus obliqua* Raf. (Silky Dogwood)
*Cornus racemosa* Lam. (Gray Dogwood)
*Cornus rugosa* Lam. (Round-leaved Dogwood)

**CUCURBITACEAE** (Gourd Family)

*Cucurbita foetidissima* HBK. (Fetid Wild Pumpkin)
*Cucurbita maxima* Duchesne (Squash)
*Sicyos angulatus* L. (Bur Cucumber)

**CUSCUTACEAE** (Dodder Family)

*Cuscuta pentagona* Engelm. (Slender Three-seeded Mercury)
*Cuscuta gronovii* Gray (Glandular Croton)
*Cuscuta glandulosa* L. (Toothed Spurge)
*Cuscuta angulata* Huds. (Dodder)
*Cuscuta cephalanthi* Engelm. (Dodder)
*Cuscuta glemerata* Choisy (Dodder)
*Cuscuta gronovii* Wild. (Dodder)
*Cuscuta pentagona* Engelm. (Dodder)

**DIPSACACEAE** (Teasel Family)

*Dipsacus sylvestris* L. (Teasel)

**EBENACEAE** (Ebony Family)

*Diospyros virginiana* L. (Persimmon)

**EUPHORBIACEAE** (Spurge Family)

*Acalypha gracilens* Gray (Slender Three-seeded Mercury)
*Acalypha rhomboidea* Raf. (Three-seeded Mercury)
*Acalypha virginica* L. (Virginia Three-seeded Mercury)
*Croton capitatus* Michx. (Hogwort)
*Croton glandulosus* L. (Glandular Croton)
*Croton monanthogynus* Michx. (Prairie Tea)
*Euphorbia cyparissius* L. (Cypress Spurge)
*Euphorbia dentata* Michx. (Toothed Spurge)
*Euphorbia maculata* L. (Eyebane)
*Euphorbia supina* Raf. (Milky-purslane)

**FABACEAE** (Legume Family)

*Amorpha canescens* Pursh (Leadplant)
*Amorpha fruticosa* L. (False-indigo)
*Amphicarpa bracteata* (L.) Fern. (Hog-peanut)
*Apis americana* Medic. (Groundnut)
*Astragalus canadensis* L. (Milky-vetch)
*Astragalus distortus* T. & G. (Twisted Vetch)
*Baptisia leucantha* T. & G. (White False Indigo)
*Baptisia leucophaea* Nutt. (Cream-colored False Indigo)
*Cercis canadensis* L. (Redbud)
*Cassia fasciculata* Michx. (Partridge-pea)
*Crotalaria sagittalis* L. (Rattle-box)
*Dalea leporina* (Ait.) Bull. (Foxtail Dalea)
*Desmodium canescens* (L.) DC. (Hoary Tick-trefoil)
*Desmodium cuspidatum* (Muhl.) Loud. (Long-leaved Tick-trefoil)
*Desmodium glutinosum* (Muhl.) Wood (Tick-trefoil)
*Desmodium illinoense* Gray (Illinois Tick-trefoil)
*Desmodium nudiflorum* (L.) DC. (Naked Tick-trefoil)

**FAGACEAE** (Beech Family)

*Castanea dentata* (Marsh.) Borkh. (American Chestnut)
*Quercus alba* L. (White Oak)
*Quercus bicolor* Willd. (Swamp White Oak)
*Quercus borealis* Michx. f. (Northern Red Oak)
*Quercus imbricaria* Michx. (Shingle Oak)
*Quercus macrocarpa* Michx. (Bur Oak)
*Quercus marilandica* Michx. (Bush Clover)
*Quercus muehlenbergii* Engelm. (Chestnut Oak)
*Quercus palustris* Muenchh. (Blackjack Oak)
*Quercus velutina* Lam. (Black Oak)
*Quercus virginiana* L. (White Oak)
*Quercus stellata* Wang. (Post Oak)
*Quercus velutina* Lam. (Black Oak)
*Quercus X bushii* Sarg. (Q. marilandica X velutina)
*Quercus X fernowii* Trel. (Q. alba X stellata)

**FUMARIACEAE** (Fumewort Family)

*Corydalis micrantha* (Engelm.) Gray (Slender Fumewort)
*Dicentra cucullaria* (L.) Bernh. (Dutchman’s Breeches)

**GENTIACEAE** (Gentian Family)

*Gentiana alba* L. (Yellowish Gentian)
*Hippocastanaceae* (Horse-chestnut Family)

*Gentiana lutea* L. (Blue Gentian)

**GERANIACEAE** (Geranium Family)

*Geranium carolinianum* L. (Carolina Cranesbill)
*Geranium micranthum* L. (Wild Cranesbill)

**HALORAGACEAE** (Water-milfoil Family)

*Myriophyllum spicatum* L. (Water-milfoil)

**HIPPOCASTANACEAE** (Horse-chestnut Family)
Aesculus glabra Wild. (Ohio Buckeye)

**HYDROPHYLLACEAE** (Waterleaf Family)

Ellisia nystecea L. (Wild Tomato)
Hydrophyllum appendiculatum Michx. (Appended Waterleaf)
Hydrophyllum virginianum L. (Virginia Waterleaf)

**HYPERICACEAE** (St. John’s-wort Family)

Hypericum mutilum L. (Dwarf St. John’s-wort)
Hypericum punctatum Lam. (Spotted St. John’s-wort)
Hypericum pyriformatum Ait. (Great St. John’s-wort)
Hypericum spathulatum (Spach.) Steudel (Robust St. John’s-wort)
Hypericum sphaerocarpum Michx. (Round-seeded St. John’s-wort)

**JUGLANDACEAE** (Walnut Family)

Carya cordiformis (Wang.) K. Koch (Bitternut Hickory)
Carya illinoensis (Wang.) K. Koch (Pecan)
Carya ovata (Michx. f.) Loud. (Kingnut Hickory)
Carya ovata (Mill.) K. Koch (Shagbark Hickory)
Carya tomentosa Nutt. (Mockernut Hickory)
Carya X nussbaumeri Sarg. (C. illinoensis X lacinosa)
Juglans cinerea L. (Butternut)
Juglans nigra L. (Black Walnut)

**LAMIACEAE** (Mint Family)

Agastache nepetoides (L.) Ktze. (Yellow Giant Hyssop)
Blephila ciliata (L.) Benth. (Pagoda Plant)
Blephila hirsuta (Pursh) Benth. (Hairy Wood Mint)
*Glecoma hederacea L. (Ground-ivy)
Hedeoma hispida Pursh (Mock Pennyroyal)
Hedeoma pulegioides L. (Round-leaved Pennyroyal)
*Lamium amplexicaule L. (Henbit)
*Leonurus cardiaca L. (Common Mothwort)
Lycopus americanus Muhl. (Common Water Horehound)
Lycopus virginicus L. (Bugle Weed)
*Marrubium vulgare L. (Common Horehound)
Mentha arvensis L. (Field Mint)
*Mentha gentilis L. (Red Mint)
*Monarda didyma L. ( Oswego-tea)
Monarda fistulosa L. (Wild Bergamot)
Monarda punctata L. (Dotted Monarda)
*Nepera cataria L. (Catnip)
Physostegia virginiana (L.) Benth.
Prunella vulgaris L. ( Heal-all)
Pycnanthemum tenuifolium Schrad. (Narrow-leaved Mountain Mint)
Pycnanthemum pilosum Nutt. (Hairy Mountain Mint)
Scutellaria lateriflora L. (Mad-dog Skullcap)
Scutellaria ovata Hill (Skullcap)
Scutellaria parvula Michx. (Small Skullcap)
Stachys palustris L. (Woundwort)
Stachys tenuifolia Wild. (Narrow-leaved Hedge Nettle)
Teucrium canadense L. (American Germander)

**LAURACEAE** (Laurel Family)

*Sassafras albidum* (Nutt.) Nees. (Sassafras)

**LINACEAE**

!!Linum medium* (Planch.) Britt. (Wild Flax)
*Linum usitatissimum* L. (Cultivated Flax)

**LYTHRACEAE** (Loosestrife Family)

!!Cuphea petiolata* (L.) Koehne (Waxweed)
Lythrum dactylonum Nieuw. (Loosestrife)
Pepis diandra Nutt. (Water-purslane)
!!Rosa ramosior* (L.) Koehne. (Tooth-cup)

**MALVACEAE** (Mallow Family)

*Abutilon theophrasti* Medic. (Velvet-leaf)
*Aithea rosea* (L.) Cav. ( Hollyhock)
Callirhoe involucrata (T. & G.) Gray (Poppy Mallow)
Hibiscus militaris Cav. (Halbard Rose Mallow)
*Malva moschata* L. (Musk Mallow)
*Malva neglecta* Wallr. ( Cheeses)
*Malva rotundifolia* L. (Round-leaved Mallow)
*Sida spinosa* L. (Prickly Mallow)

**MENISPERMACEAE** (Moonseed Family)

Menispermum canadense L. (Moonseed)

**MONOTROPACEAE** (Indian-pipe Family)

Monotropa hypopithys L. (False Beech-drops)

**MORACEAE** (Mulberry Family)

*Maclura pomifera* ( Raf.) Schneid. (Osage Orange)
*Morus alba* L. (White Mulberry)
*Morus rubra* L. (Red Mulberry)

**NELUMBONACEAE**

Nelumbo lutea (Willd.) Pers. (American Lotus)

**NYCTAGINACEAE** (Four-O’clock Family)

Mirabilis nyctaginea (Michx.) MacM. (Wild Four-O’clock)

**NYMPHAEACEAE** (Waterlily Family)

Nyphaea tuberosa Paine (White Waterlily)

**OLEACEAE** (Olive Family)

Fraxinus americana L. (White Ash)
Fraxinus nigra Marsh. (Black Ash)
Fraxinus pensylvanica Marsh. (Green Ash)
!!Fraxinus quadrangulata Michx. (Blue Ash)

**ONAGRACEAE** (Evening Primrose Family)

Circaea lutetiana L. ssp. canadensis (L.) Ascherson & Magnus (En- chanter’s Nightshade)
Epilobium coloratum Muhl. (Cinnamon Willow-herb)
Gaura biennis L. (Biennial Gaura)
*Gaura parviflora* Dougl. (Sparse-flowered Gaura)
Ludwigia alterniflora L. (Seedbox)
Ludwigia palustris (L.) Ell. (Marsh Purslane)
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**OROBANCHACEAE** (Broom-rape Family)

*Orobanche unijlora* L. (Cancer-root)

**OXALIDACEAE** (Wood-sorrel Family)

*Oxalis* (Broom-rape Family)

**POLYGONACEAE** (Buckwheat Family)

*Agrimonia parvijlora* L. (Evening Primrose)

*Oenothera biennis* L. (Evening Primrose)

*Oenothera laciniata* Hill (Evening Primrose)

*Oenothera parviflora* L. (Small-flowered Evening Primrose)

*Oenothera rhombipetala* Nutt. (Sand Primrose)

**PAPAVERACEAE** (Poppy Family)

*Sanguinaria canadensis* L. (Bloodroot)

**PHRYMACEAE** (Lopseed Family)

*Phlox pilosa* (Blue Phlox)

**PHYLLOLACCACEAE** (Pokeweed Family)

*Polygala sanguinea* L. (Field Milkwort)

**POLYGONACEAE** (Buckwheat Family)

*Polygonum amphista* Ell. (Knotweed)

*Polygonum coccineum* Michx. (Crimson Dogwood)

*Polygonum hydropiper* L. (Water Smartweed)

*Polygonum lapathifolium* L. (Climbing False-buckwheat)

*Polygonum persicaria* L. (Lady's-thumb)

*Polygonum punctatum* Ell. (Knotweed)

**PLATANACEAE** (Plane-tree Family)

*Platanus occidentalis* L. (Sycamore)

**POLEMONIACEAE** (Polemonium Family)

*Phlox divaricata* L. (Blue Phlox)

**PRIMULACEAE** (Primrose Family)

*Androsace occidentalis* Pursh (Wild Arnica)

*Lysimachia ciliata* L. (Loosestrife)

*Lysimachia nummularia* L. (Spring Beauty)

**PORTULACACEAE** (Purslane Family)

*Claytonia virginica* L. (Spring Beauty)

*Portulaca oleracea* L. (Common Purslane)

**RHAMNACEAE** (Buckthorn Family)

*Ceanothus americanus* L. (New Jersey Tea)

*Rhamnus lansceolata* Pursh (Lance-leaved Buckthorn)

**ROSACEAE** (Rose Family)

*Agrimonia gryposepala* Wallr. (Agrimony)

*Agrimonia parvijlora* Ait. (Agrimony)

*Agrimonia pubescens* Wallr. (Downy Agrimony)

*Amelanchier arborea* (Michx. f.) Fern. (Shadbush)

*Aruncus dioicus* (Ait.) Willd. (Goat's Beard)

*Crataegus crus-galli* L. (Cockspur Hawthorn)

*Crataegus cuneiformis* (Marsh.) Eggleston (Hawthorn)
Crataegus margaretta Ashe (Margaret's Hawthorn)
Crataegus mollis (T. & G.) Sheele (Red Hawthorn)
Fragaria virginiana Dcne. (Wild Strawberry)
Geum laciniatum Murr. (Rough Avens)
Physocarpus opulifolius (L.) Maxim. (Ninebark)
Potentilla arguta Pursh (Tall Cinquefoil)
Potentilla rivalis Nutt. (River Cinquefoil)
Potentilla simplex Michx. (Old-field Cinquefoil)
*Prunus hortulana Bailey (Hortulan Plum)
*Prunus malahbe L. (Mahaleb Cherry)
Prunus serotina Ehrh. (Black Cherry)
Prunus virginiana L. (Choke Cherry)
*Pyrus communis L. (Pear)
*Pyrus ioensis (Wood) Bailey (Wild Crabapple)
*Rosa arkansana Port. (Arkansas Rose)
*Rosa carolina L. (Sunshine Wild Rose)
*Rosa virginiana L. (Virginian Rose)
*Rosa virginiana Mill (Virginian Rose)
*Rubus x radiuscula Greene (R. arkansana X carolina)
*Rubus allegheniensis Porter (Common Blackberry)
*Rubus flagellaris L. (Northern Dewberry)
*Rubus occidentalis L. (Black Raspberry)
*Spirea alba Du Roi (Meadow Sweet)

RUBIACEAE (Madder Family)

*Cephalanthus occidentalis L. (Buttonbush)
*Diodia teres Walt. (Buttonweed)
*Galium aparine L. (Spring-cleavers)
*Galium circaeaeum Michx. (Wild-lircorice)
*Galium concinnum T. & G. (Shining Bedstraw)
*Galium obtusum Bigel. (Wild Madder)
*Galium tinctorum L. (Stiff Bedstraw)
*Galium triflorum Michx. (Sweet-scented Bedstraw)

RUTACEAE (Rue Family)

*Petalea trifoliata L. (Water-ash)
*Zanthoxylum americanum Mill. (Northern Prickly-ash)

SALICACEAE (Willow Family)

*Populus alba L. (Silver-leaved Poplar)
*Populus alba X grandidentata (Sharon Poplar; Shinek Poplar)
*Populus deltoides Marsh. (Cottonwood)
*Populus grandidentata Michx. (Large-toothed Aspen)
*Populus tremuloides Michx. (Quaking Aspen)
*Salix amygdaloides Anders. (Peach-leaved Willow)
*Salix discolor Muhl. (Large Pussy Willow)
*Salix humilis Marsh. (Prairie Willow)
*Salix interior Rowlee (Sandbar Willow)
*Salix nigra L. (Black Willow)
*Salix rigida Muhl. (Heart-leaved Willow)

SANTALACEAE (Sandalwood Family)

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

SAXIFRAGACEAE (Saxifrage Family)

*Heuchera richardsonii R. Br. (Alumroot)

*Penthorum sedoides L. (Ditch Stonecrop)
*Ribes missouriense Nutt. (Missouri Gooseberry)

SCROPHULARIACEAE (Figwort Family)

*Aureolaria grandifolia (Benth.) Pennell (False Foxglove)
*Bacopa rondifolia (Michx.) Wettst. (Water Hyssop)
*Castilleja coccinea (L.) Spreng. (Indian Paint Brush)
*Chaenorrhinurn minus (L.) Lange (Dwarf Snapdragon)
*Chelone obliqua L. (Pink Turtlehead)
*Conoea multifida (Michx.) Bentham (Conoea)
*Gerardia auriculata Michx. (Foxglove)
*Gerardia tenuifolia Vahl (Slender False Foxglove)
*Gratiola virginiana L. (Round-fruited Hedge Hyssop)
*Linaria vulgaris Hill (Butter and Eggs)
*Lindernia anagallidea (Michx.) Pennell
*Lindernia dubia (L.) Pennell (False Pimpernel)
*Mimulus alatus Ait. (Monkey Flower)
*Mimulus ringens L. (Allegheny Monkey Flower)
*Pedicularis canadensis L. (Common Lousewort)
*Penstemon digitalis Nutt. (Foxglove Penstemon)
*Penstemon pulalis Small (Pall Bearded-tongue)
*Scrophularia lanceolata Pursh (Early Figwort)
*Scrophularia marilandica L. (Late Figwort)
*Verbasurn blattaria L. (Moth Mullein)
*Verbascum phlomoides L. (Mullein)
*Verbasurn thapsus L. (Common Mullein)
*Veronica americana (Raf.) Schw. (American Brooklime)
*Veronica arvensis L. (Corn Speedwell)
*Veronica peregrina L. (Purslane Speedwell)
*Veronicastrum virginicum (L.) Farw. (Culver's-root)

SIMAROUBACEAE (Quassia Family)

*Alainthus altissima (Mill.) Swingle (Tree-of-heaven)

SOLANACEAE (Nightshade Family)

*Daturna stramonium L. (Jimsonweed)
*Physalis heterophylla Nees (Ground-cherry)
*Physalis virginiana Mill. (Ground-cherry)
*Solanum americanum Mill. (Black Night-shade)
*Solanum carolinense Mill. (Horse-nettle)
*Solanum dulcarnara L. (European Bittersweet)
*Solanum rostratum Dunal (Buffalo-bur)

STAPHYLEACEAE (Bladdernut Family)

*Staphylea trifolia L. (Bladdernut)

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)

URTIACEAE (Nettle Family)
Boehmeria cylindrica (L.) Sw. (Bog-Hemp)
Laportea canadensis (L.) Wedd. (Wood Nettle)
Parietaria pensylvanica Muhl. (Pellitory)
Pilea pumila (L.) Gray (Clearweed)
Urtica dioica L. (Stinging Nettle)

VERBENACEAE (Vervain Family)
Lippia lanceolata Michx. (Fog-fruit)
Verbena bracteata Lag. & Robr. (Bracted Vervain)
Verbena hastata L. (Blue Vervain)
Verbena stricta Vent. (Hoary Vervain)
Verbena urticifolia L. (White Vervain)

VIOLACEAE (Violet Family)
Viola missouriensis Greene (Missouri Violet)
Viola pedata L. (Pansy Violet)
Viola pratensis Greene (Common Blue Violet)
Viola pubescens Ait. (Smooth Yellow Violet)
Viola rafinesquii Greene (Field Pansy)
Viola sagittata Ait. (Arrow-leaved Violet)
Viola sororia Wild. (Downy Blue Violet)
Viola sagittata X sororia

VITACEAE (Grape Family)
!!Ampelopsis cordata Michx. (Raccoon Grape)
Parthenocissus quinqufolia (L.) Planch. (Virginia Creeper)
Parthenocissus vitacea (Knerr) Hitchc. (Woodbine)
!!Vitis baileyana Munson (Possum grape)
Vitis cinerea Engel. (Winter Grape)
Vitis riparia Michx. (Riverbank Grape)
Vitis vulpina L. (Frost Grape)

ZYGOPHYLLACEAE (Caltrop Family)
*Trubulus terrestris L. (Caltrop)

MAGNOLIATAE: LILIATAE (Monocots)

ALISMATAE (Water-plantain Family)
Alisma subcordatum Raf. (Water-plantain)
Echinodorus rostratus (Nutt.) Engelm. (Beaded Burhead)
Sagittaria engelmanniana J.G. Smith (Arrowhead)
Sagittaria graminea Michx. (Grass-like Arrowhead)
Sagittaria latifolia Willd. (Common Arrowhead)
Sagittaria rigida Pursh (Narrow Arrowhead)

ARACEAE (Arum Family)
Acorus calamus L. (Sweet Flag)
Arisaema dracontium (L.) Schott (Green Dragon)
Arisaema triphyllum (L.) Schott (Jack-in-the-pulpit)

COMMELINIACEAE (Spiderwort Family)
*Commelina communis L. (Common Day Flower)
Commelina erecta L. (Day Flower)
Tradescantia ohiensis Raf. (Common Spiderwort)

CYPERACEAE (Sedge Family)
Carex albursina Sheldon (White Bear Sedge)
Carex annectens Bickn. (Connecting Sedge)
Carex atherodes Spreng. (Slough Sedge)
Carex bicknelli Britt. (Bicknell's Sedge)
Carex blanda Dewey (Woodland Sedge)
Carex brevior (Dew.) Mackenz. (Fescue Sedge)
!!Carex bushii Mackenz. (Bush Sedge)
Carex cephalophora Muhl. (Woodbank Sedge)
Carex conjuncta Boost (Joined Sedge)
Carex cribrata Lam. (Long-haired Sedge)
Carex cristatella Britt. (Dense-flowered Sedge)
Carex crus-corvi Shuttlew. (Crow-spur Sedge)
Carex davisi Schw. & Torr. (Davis' Sedge)
Carex festucacea Willd. (Fescue Sedge)
Carex frankii Kunth (Frank's Sedge)
Carex granulatis Muhl. (Meadow Sedge)
Carex grada L.H. Bailey (Heavy Sedge)
Carex grayi Carey (Gray's Sedge)
Carex hirtuella Mackenz. (Flattened Sedge)
Carex hirtifolia Mackenz. (Hairy-leaved Sedge)
Carex jamesis Schw. (James' Sedge)
Carex laeviconica Dewey (Smooth-coned Sedge)
Carex laevigatinata Mackenz. (Smooth-sheathed Sedge)
Carex lanuginosa Michx. (Woody Sedge)
Carex lasiocarpa Ehrh. (Hairy Sedge)
Carex laxiflora Lam. (Drooping Sedge)
Carex leavensworthii Dewey (Leavenworth's Sedge)
Carex lupaliformis Sartw. (Hop-like Sedge)
Carex lupulina Muhl. (Hop Sedge)
Carex lurida Wahl. (Sallow Sedge)
Carex meadii Dewy. (Mead's Sedge)
Carex molesta Mackenz. (Troublesome Sedge)
Carex muhlenbergii Schkuhr. (Muhlenberg's Sedge)
Carex muskingumensis Schw. (Muskingum's Sedge)
Carex normalis Mackenz. (Right-angled Sedge)
Carex pensylvanica Lam. (Pensylvanis Sedge)
Carex rosea Schkuhr. (Rose-like Sedge)
Carex scoparia Schkuhr. (Broom Sedge)
Carex shortiana Dewey (Short's Sedge)
Carex sparganioides Muhl. (Broom-like Sedge)
Carex squarrosa L. (Wide-spreadling Sedge)
Carex stipata Muhl. (Saw-beak Sedge)
Carex stricta Lam. (Tussock Sedge)
Carex tenella Schkuhr. (Two-seeded Sedge)
Carex tenera Dewey (Slender Sedge)
!!Carex tonsa (Fern.) Bickn. (Deep Green Sedge)
Carex tribuloides Wahl. (Angled Sedge)
Carex typhina Michx. (Cat-tail Sedge)
Carex vulpinoidea Michx. (Fox-tail Sedge)
Cyperus acuminatus Torr. & Hook. (Tapered Sedge)
Cyperus aristatus Rothb. (Sedge)
Cyperus erythrorhizos Muhl. (Red-rooted Sedge)
*Cyperus esculentus L. (Yellow Nutsedge)
Cyperus filiculmis Vahl. (Fern Flatsedge)
Cyperus odoratus L. (Fragrant Sedge)
Cyperus rivularis Kunth. (Brook Flatsedge)
Cyperus schweinitzii Torr. (Schweinitz's Flatsedge)
Cyperus strictus L. (False Nutgrass)
Eleocharis acicularis (L.) R. & S. (Needle-shaped Spike-rush)
Eleocharis compressa Sulliv. (Flattened Spike-rush)
Eleocharis erythropoda Steud. (Red-footed Spikerush)
Eleocharis macrostachya Britt. (Marsh Spike-rush)
Eleocharis obtusa (Willd.) Schultes (Needle Spike-rush)
Eleocharis tenuis (Willd.) Schultes (Slender Spikerush)
VASCULAR FLORA OF LEE COUNTY

Smilax herbacea
Smilax ecirrhata
Smilacina stellata
Smilacina racemosa
Lilium michiganense
Lemna trisulca
Lemna minor
Smilax hispida
Spirodela polyrhiza
Trillium recuvatum
Trillium nivale
Trillium flexipes
Polygonatum bijlorum
Hypoxis hirsuta
Juncus torreyi
Juncus tenuis
Juncus interior
Wo/jfia
Uvularia
Sisyrinchium campestre
Sisyrinchium angustifolium
Juncus balticus
Juncus acuminatus
Wo/jfia
Hemerocallis fulva
Asparagus
Vallisneria americana
Dioscorea villosa
Scirpus pendulus
Scirpus fluviatilis
Scirpus cyperinus
Scirpus atrovirens
Juncus effusus
Vallisneria americana (Planch.) St. John (Nuttall's Waterweed)
Hydrocharitaceae (Fog's-bit Family)

HYDROCHARITACEAE (Fog's-bit Family)

Elodea nuttalli (Planch.) St. John (Nuttall's Waterweed)
Walliseria americana Michx. (Tape grass)

IRIDACEAE (Iris Family)

Belamcandra chinensis (L.) DC. (Blackberry-lily)
Iris virginica L. (Southern Blue Flag)
Sisyrinchium angustifolium Mill. (Narrow-leaved Blue-eyed Grass)
Sisyrinchium campestre Bickn. (Plains Blue-eyed Grass)

JUNCACEAE (Rush Family)

Juncus acuminatus Michx. (Bog Rush)
Juncus balticus Willd. (Baltic Rush)
Juncus bufonius L. (Toad Rush)
Juncus effusus L. (Soft Rush)
Juncus interior Wieg. (Inland Rush)
Juncus tenuis Willd. (Path Rush)
Juncus torreyi Cor. (Torrey's Rush)

Lemna minor L. (Common Duckweed)
Lemna trisulca L. (Star Duckweed)
Spirodela polyrhiza (L.) Schleid. (Water-flaxseed)
Wolffiabombiana Kart. (Water-meal)
Wolffia punctata Grieseb. (Water-meal)

LILIACEAE (Lily Family)

Allium canadense L. (Wild Garlic)
Asparagus officinalis L. (Asparagus)
Hemerocallis fulva L. (Asian Daylily)
Hypoaxis hirsuta (L.) Cov. (Yellow Star-grass)
Lilium michiganense Farw. (Michigan Lily)
Polygonatum biflorum (Will.) Ell. (Small Solomon's-seal)
Polygonatum pubescens (Wild.) Pursh (Large Solomon's-seal)
Smilacina racemosa (L.) Desf. (Large False Solomon's-seal)
Smilacina stellata (L.) Desf. (Small False Solomon's-seal)
Smilax eichhILTERA (Engelm.) Wats. (Carrion-flower)
Smilax herbacea L. (Carrion-flower)
Smilax hispida Muhl. (Greenbrier)
Trillium flexipes Raf. (Large-flowered Trillium)
Trillium nivalis Riddell (Snow Trillium)
Trillium recurvatum Beck (Wake-robin)
Uvularia grandiflora Sm. (Bellwort)
VeratrurewoodiiRobbins (False Hellebore)

NAJADACEAE (Naiad Family)

Najas flexilis (Willd.) Rostk. & Schmidt (Naiad)
Najas guadelupensis (Spr.) Magnus (Naiad)

ORCHIDACEAE (Orchid Family)

Cypripedium calceolus L. (Yellow Lady's Slipper)
Habenaria lacera (Michx.) Lodde. (Ragged Orchid)
Liparis liliputiana L. Rich. (Lilia-leaved Twayblade)

POACEAE (Grass Family)

*Agropyron repens (L.) Beauv. (Quack Grass)
Agropyron smithii Rydb. (Wheat-grass)
*Agrostis gigantea Roth (Redtop Grass)
Agrostis hyemalis (Willd.) A. Gray (Livermore Grass)
Agrostis perennans (Walt.) Tuckerm. (Autumn Bent Grass)
Alopecurus carolinianus Walt. (Carolina Foxtail)
Andropogon gerardii Vitman (Big Bluestem)
Andropogon scoparius Michx. (Little Bluestem)
Aristida oligantha Michx. (Tripawned Grass)
Aristida tuberculosa Nutt. (Sea-beach Needlegrass)
*AvensativaL.(Cultivated Oats)
Bouteloua curtipendula (Michx.) Torr. (Side-oats Grama)
Brachyelytrum erectum (Schreb.) Beav. (Bearded Shorthusk)
*Bromus inermis Leyss. (Smooth Brome)
*Bromus japonicus Thunb. (Japanese Chess)
Bromus pubescens Muhl. ex Willd. (Brome Grass)
*Bromus secalinus L. (Cheat)
*Bromus tectorum L. (Downy Chess)
Calamagrostis canadensis (Michx.) Beav. (Blue Joint)
Cenchrus longispinus (Hack.) Fern. (Field Sandbur)
*Chloris verticillata Nutt. (Windmill Grass)
Cinna arundinacea L. (Wood Reedgrass)
*Dactylis glomerata L. (Orchard Grass)
*Danthonia spicata (L.) Beav. (Poverty Oatgrass)
Diarrhena americana Beav. (Virginia Wild Rye)
Dicerandra faliformis (L.) Koeler (Finger Grass)
*Digitaria ischaemum (Schreb.) Muhl. (Smooth Crab Grass)
*Digitaria sanguinalis (L.) Scop. (Common Grass)
Echinocloa muricata (Beav.) Fern. (Barnyard Grass)
Echinocloa crusgalli (L.) Beav. (Barnyard Grass)
Eleusine indica (L.) Gaertn. (Goosegrass)
Elymus canadensis L. (Nodding Wild Rye)
Elymus villosus Muhl. (Slender Wild Rye)
Elymus virginicus L. (Virginia Wild Rye)
*Eragrostis cilianensis (All.) Link (Stink Grass)
Eragrostis frankii C.A. Mey. var. frangii (Love Grass)
Eragrostis frankii C.A. Mey. var brevipes Fassett (Love Grass)
Eragrostis hypnoides (Lam.) B.S.P. (Pony Grass)
Eragrostis pectinacea (Michx.) Nees (Lovegrass)
Eragrostis spectabilis (Neels) Steud. (Purple Lovegrass)
Festuca arundinacea Schreb. (Alta Fescue)
Festuca obtusa Biehler (Nodding Fescue)
Festuca octoflora Walt. (Six-weeks Fescue)
*Festuca pratensis Huds. (Meadow Fescue)
Glyceria sepimentalis Hitchc. (Sweet Grass)
Glyceria striata (Lam.) Hitchc. (Fowl Manna Grass)
Hordeum jubatum L. (Squirrel-tail Grass)
Hordeum pusillum Nutt. (Small Wild Barley)
Hystrix patula Moench. (Bottle-brush Grass)
Leersia lenticularis Michx. (Catchfly Grass)
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