

**ANNOTATED CHECKLIST OF THE VASCULAR FLORA
OF
MAMMOTH CAVE NATIONAL PARK, MAMMOTH CAVE, KY**

**Analysed, updated, and compiled
By
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This list represents the most current attempt to produce an accurate flora of Mammoth Cave National Park. This list has been painstakingly compiled from all existing sources including historical efforts, Seymour, and NatureServe. Additional aspects of this effort include;

- Non-native species will be indicated by an (*).
- Those species that are state-listed as endangered, threatened, or of special concern will be listed in **bold type**.
- If more than one variety or subspecies occurs, the varieties or subspecies will be recessed.
- A synopsis of numbers e.g. total flora, largest families, largest genera, listed species, non-native species will be provided.
- A list at the end of this document represents those species that have been or suspected to be reported in error.

Taxonomy and nomenclature will largely follow Jones' "Plant Life of Kentucky". Differences in current nomenclature will be indicated within the floristic list. These suggest differences in opinion or lack of updated (accepted) changes in Jones' manual.

As to this revised floristic list, while some concern is felt for the large number of state-listed (rare) species on this revised floristic list, most with some exception have been included. However, I currently have no knowledge of level of verification for most and would encourage verification and documentation for continued listing as part of the park's flora.

As with any attempt of this magnitude, errors will be made and some differences of opinion will come into play. My floristic history with the Park goes back to the late 1980s. As a plant taxonomist for 35+ years, I have strong opinions on patterns of vegetation and general floristics. However, I humbly take full responsibility for any error or difference in opinion.

A Word about habitat and frequency. Most habitat references are generalized. Specialized or limited habitats are provided when know. The term wasteground constitutes anything disturbed or previously disturbed including fields, roadsides, right-of-ways, lawns, etc.

FLORISTIC SYNOPSIS

Currently, the Park's flora includes 1143 taxa representing 1123 species, 5 subspecies, 14 varieties, and 1 hybrid. Further analysis provides the following numbers;

- 141 families
- 508 genera
- 43 ferns & allies
- 6 gymnosperms
- 279 monocots
- 815 dicots

The largest plant families include Asteraceae (161), Poaceae (117), Cyperaceae (74), Fabaceae (59), and Lamiaceae (42). The largest genera include *Carex* (47), *Solidago* (18), *Viola* (18), *Quercus* (17), *Symphiotrichum* (16), and *Dicranthelium* (16).

Non-native or exotic species include 155 species or approximately 14 percent of the park's flora. This compares favorably with Kentucky's flora where approximately 22 percent of the state's flora is non-native. Currently, there are an additional 72 taxa believed to be reported in error.

These numbers do not quite mirror those on the park's official website but do represent a more accurate representation of the park's flora until further analysis and verification. As with any flora, further surveys produce additional taxa. The earlier floristic efforts produced smaller numbers e.g. 674 (Davis, 1954), 751 (Faller, 1975), and 866 (McKinney, Evans, & Nicely, 1991). Efforts by Seymour (1996) produced the occurrence of additional taxa as did NatureServe (2010). The final number of taxa will likely be over the 1143 reported above but less than the 1300 reported on the park's official website.

The park's flora compares favorably to other floras especially considering the park's size (52,000+ acres). While there is no similar acreage for a floristic work in the vicinity, other floristic efforts in the same physiographic province includes Sumner County, Tennessee (341,760 acres, 953 vascular plants), and Land Between the lakes (170,430 acres, 1310 vascular plants).

PTERIDOPHYTES (FERNS AND FERN ALLIES)

ASPLENIACEAE

Asplenium montanum Willd. Mountain spleenwort, sandstone crevices, rare.

A. pinnatifidum Nutt. Lobed spleenwort, sandstone crevices, rare.
(*A. X trudellii* Wherry, possibly occurring in vicinity of parent.

A. platyneuron (L.) BSP. Ebony spleenwort, woodlands frequent.

A. resiliens Kunze. Black-stalked spleenwort, woodlands, infrequent.

A. rhizophyllum L. Walking fern, limestone outcrops, infrequent.

A. trichomanes L. Maidenhair spleenwort, rock outcrops, usually sandstone, rare.

BLECHNACEAE

Woodwardia areolata (L.) T. Moore Netted chain fern, wet woodlands, rare.

DENNSTAEDTIACEAE

Dennstaedtia punctilobula (Michx.) T. Moore Hay-scented fern, woodlands, rare.

Pteridium aquilinum (L.) Kuhn. var. *latiusculum* (Desv.) Underw. Bracken fern, dry woodlands and open ground, infrequent.

DRYOPTERIDACEAE

Athyrium filix-femina (L.) Roth. subsp. *asplenioides* (Michx.) Hutten. Lady fern, mesic woodlands, infrequent.

Cystopteris bulbifera (L.) Bernhardt. Bulblet bladder fern, mesic woodlands, often limestone outcrops, infrequent.

C. protrusa (Weath.) Blasdell. Southern bladder fern, mesic woodlands, frequent.

C. tennesseensis Shaver. Tennessee bladder fern, mesic woodlands, rare.

C. tenuis (Michx.) Desv. (*C. fragilis* var. *mackayi*), Mackey's brittle fern, sandstone cliffs, rare.

Deparia acrostichoides (SW.) M. Kato. (*Athyrium thelypteroides*), Silvery glade fern, mesic woodlands, infrequent.

Diplazium pycnocarpon (Spreng.) M. Broun. (*Athyrium pycnocarpon*), Narrow-leaved glade fern, mesic woodlands, infrequent.

***Dryopteris carthusiana* (Vill.) H. P. Fuchs.** (*D. spinulosa*), Spinulose wood fern, woodlands, rare.

D. goldiana (Hook.) A. Gray. Goldie's wood fern, mesic woodlands, rare.

D. intermedia (Muhl. ex Willd.) A. Gray. Evergreen wood fern, mesic woodlands, infrequent.

D. marginalis (L.) A. Gray. Marginal wood fern, woodlands, rare.

Onoclea sensibilis L. Sensitive fern, wet areas, infrequent.

Polystichum acrostichoides (Michx.) Schott. Christmas fern, woodlands, frequent.

Woodsia obtusa (Spreng.) Torr. Blunt cliff fern, woodlands, frequent.

EQUISETACEAE

Equisetum arvense L. Common horsetail, woodlands and wasteground, often wet, infrequent.

E. hymale L. subsp. *affine* (Engelm.) Calder & R. L. Taylor. Scouring rush, woodlands and edges, often wet, rare.

HYMENOPHYLLACEAE

Trichomanes boschianum Sturm. Appalachian bristle fern, moist sandstone cliffs, rare.

LYCOPODIACEAE

Huperzia lucidula (Michx.) Trevis. (*Lycopodium lucidulum*), Shinning fir-moss, mesic woodlands, rare.

H. porophila (F.E. Lloyd and Underw.) Holub. Rock club-moss, sandstone cliffs and rockhouses, rare.

Lycopodium digitatum Dill. Southern running pine, woodlands, infrequent.

OPHIOGLOSSACEAE

Botrychium biternatum (Savigny) Underw. Sparse-lobed grape fern, mesic to wet woodlands, rare.

B. dissectum Spreng. Dissected grape fern, woodlands, rare.

B. virginianum (L.) SW. Rattlesnake fern, woodlands, frequent.

Ophioglossum engelmannii Prantl. Limestone adder's tongue, open, rocky (limestone) ground, rare.

O. vulgatum (L.) Sw. Southern adder's tongue, mesic to wet woodlands, rare.

OSMUNDACEAE

Osmunda cinnamomea L. cinnamon fern, wet areas, often wooded, rare.

O. claytoniana L. Interrupted fern, wetlands, rare.

O. regalis L. var. *spectabilis* (Willd.) A. Gray. Royal fern, wet areas, often wooded, rare.

POLYPODIACEAE

Pleopeltis polypodioides (L.) E. G. Andrews & Windham var. *michauxiana* (Weath.) E. G. Andrews & Windham. (*Polypodium polypodioides*), resurrection fern, rocky outcrops and trees, infrequent.

PTERIDACEAE

Adiantum pedatum L. Northern maidenhair fern, mesic woodlands, frequent.

Cheilanthes lanosa (Michx.) D. C. Eaton. Hairy lip fern, rocky woodlands, infrequent.

Pellaea atropurpurea (L.) Link. Purple cliffbrake, rocky (limestone) woodlands, infrequent.

THELYPTERIDACEAE

Phegopteris hexagonoptera (Michx.) Fée. (*Thelypteris hexagonoptera*), southern beech fern, woodlands, infrequent.

Thelypteris noveboracensis (L.) Nieuwl. New York fern, mesic to wet woodlands, infrequent.

GYMNOSPERMS

PINACEAE

Pinus echinata Mill. Short-leaf pine, upland woods, frequent.

P. strobus L. White pine, planted/escaped, infrequent.

P. taeda L. Loblolly pine, planted/escaped, rare,

P. virginiana Mill. Virginia pine, dry, open ground, infrequent.

Tsuga canadensis (L.) Carr. Eastern hemlock, mesic woodlands, rare.

CUPRESSACEAE

Juniperus virginiana L. Eastern red cedar, old fields, woodlands, wasteground, frequent.

DICOTYLEDONAE

ACANTHACEAE

Justicia americana (L.) Vahl. American water willow, open wet areas, stream borders, infrequent.

Ruellia carolinensis (J. F. Gmel.) Steud. Carolina wild petunia, open woodlands, frequent.

R. humilis Nutt. Fringeleaf wild petunia, limestone woodlands, infrequent.

R. strepens L. Limestone wild petunia, open woodlands, woodland borders, old fields, infrequent.

ACERACEAE

Acer negundo L. Box elder, woodlands (often alluvial), wasteground, old fields, frequent.

A. nigrum F. Michx. Black maple, mesic woodlands, rare.

A. rubrum L. Red maple

var. *rubrum*, woodlands, frequent.

var. *trilobum* Torr. & A. Gray ex K. Koch, woodlands, infrequent.

A. saccharinum L. Silver maple, alluvial woodlands, frequent.

A. saccharum Marsh. Sugar maple, mesic woodlands, frequent.

AMARANTHACEAE

Amaranthus albus L. Tumbleweed, wasteground, infrequent.

**A. retroflexus* L. Rough pigweed, wasteground, infrequent.

**A. spinosus* L. Spiny amaranthus, wasteground, infrequent.

Iresine rhizomatosa Standl. Bloodleaf, wet woodlands, rare.

ANACARDACEAE

Rhus aromatica Aiton. Fragrant sumac, old fields, borders, infrequent.

R. copallina L. Winged sumac, old fields, infrequent.

R. glabra L. Smooth sumac, old fields, borders, rare.

R. typhina L. Staghorn sumac, old fields, borders, infrequent.

Toxicodendron radicans (L.) Kunze. Poison ivy, woodlands, old fields, frequent.

ANNONACEAE

Asimina triloba (L.) Dunal. Pawpaw, woodlands, infrequent.

APIACEAE

Angelica venenosa (Greenway) Fernald. Hairy angelica, rocky woodlands and openings, rare.

C. procumbens (L.) Crantz. var. *procumbens*. Spreading chervil, open woodlands, rare

Chaeophyllum tainturieri Hook, Southern chervil, old fields and other open areas, infrequent.

Cicuta maculata L. Common water-hemlock, wetlands, infrequent.

**Conium maculatum* L. Poison hemlock, roadsides, wasteground, infrequent.

Cryptotaenia canadensis (L.) DC. Honewort, woodlands, infrequent.

**Daucus carota* L. Queen Anne's lace, wasteground, frequent.

Erigenia bulbosa (Michx.) Nutt. Harbinger of spring, woods, infrequent.

Eryngium yuccifolium Michx. Rattlesnake master, barrens, rare.

Osmorhiza claytonia (Michx.) C. B. Clarke, Sweet cicely, mesic woodlands, infrequent.

O. longistylis (Torr.) DC. Long styled sweet cicely, woodlands, frequent.

Oxypolis rigidior (L.) Raf. Common water dropwort, wet areas, rare.

**Pastinaca sativa* L. Wild parsnip, wasteground, infrequent.

Sanicula canadensis L. Canada snakeroot, woodlands, infrequent.

S. odorata (Raf.) Pryer and Phillippe. Cluster sanicle, woodlands, infrequent.

S. smallii E.P. Bicknell. Southern sanicle, woodlands, infrequent.

S. trifoliata E.P. Bicknell. Beaked sanicle, woodlands, infrequent.

Taenidia integerrima (L.) Drude. Yellow pimpernel, dry open areas, infrequent.

Thaspium barbinode (Michx.) Nutt. Bearded meadow-parsnip, Woodlands and barrens, rare.

T. pinnatifidum (Buckley) A. Gray. Mountain meadow-parsnip, limestone woodlands, rare.

T. trifoliatum (L.) A. Gray. Smooth meadow-parsnip, open woodlands, borders, infrequent.

Zizia aptera (A. Gray) Fernald. Heart-leaved golden alexander, riparian woodlands, frequent.

Z. aurea (L.) W.D.J. Koch. Common golden alexander, mesic woodlands and streamsides, infrequent.

APOCYNACEAE

Apocynum cannabinum L. Hemp dogbane, old fields, barrens, wasteground, infrequent.

**Vinca minor* L. Common periwinkle, wasteground, woodland borders, cemeteries, infrequent.

AQUIFOLIACEAE

Ilex decidua Walter. var. *decidua* Swamp holly, wet woodlands, rare.

Ilex opaca Aiton. American holly, woodlands, rare.

ARALIACEAE

Aralia racemosa L. Spikenard, mesic woodlands, infrequent.

A. spinosa L. Hercule's club, mesic woodlands, infrequent.

**Hedera helix* L. English ivy, old home sites, rarely escaping, rare.

Panax quinquefolium L. Ginseng, mesic woodlands, rare.

ARISTOLOCHIACEAE

Aristolochia macrophylla Lam. Dutchman's pipe, mesic woodlands, rare.

A. serpentaria L. Virginia snakeroot, woodlands, infrequent.

A. tomentosa Sims. Pipevine, wet woodlands, rare.

Asarum canadense L. Wild ginger, mesic woodlands, infrequent.

ASCLEPIADACEAE

Ampelamus albidus (Nutt.) Britton. Sandvine, woodlands and fields, often weedy, rare.

Asclepias amplexicaulis Sm. Claspig milkweed, open woodlands, barren-like roadsides, rare.

A. exaltata L. Tall milkweed, mesic woodlands, rare.

A. incarnata L. Swamp milkweed, open wet areas, infrequent.

A. purpurascens L. Purple milkweed, woodlands, rare.

A. quadrifolia Jacq. Four-leaved milkweed, woodlands, infrequent.

A. syriaca L. Common milkweed, old fields, wasteground, frequent.

A. tuberosa L. Butterfly weed, wasteground, old fields, infrequent.

A. varigata L. White milkweed, woodlands, infrequent.

A. verticillata L. Whorled milkweed, barrens, rare.

A. viridiflora Raf. Green milkweed, barrens, rare.

***Matelea carolinensis* (Jacq.) Woodson.** Carolina milkvine, open woodlands, thickets, rare.

M. gonocarpus (Walter) Shinnars. Anglepod milkvine, open woodlands, thickets, rare.

M. obliqua (Jacq.) Woodson. Climbing milkvine, limestone woodlands and thickets, rare.

ASTERACEAE

Achillea millefolium L. Common yarrow, wasteground, frequent.

Ageratina altissima (L.) R. L. King & H. Rob. (*Eupatorium altissimum*), White snakeroot, open woodlands, infrequent.

A. aromatica (L.) Spach. (*Eupatorium aromaticum*), Small-leaved white snakeroot, open woodlands, rare.

Ambrosia artemisiifolia L. Common ragweed, wasteground, frequent.

A. trifida L. Giant ragweed, wasteground, frequent.

Antennaria neglecta Greene. Field pussytoes, open woodlands, fields, rare.

A. plantaginifolia (L.) Richards. Plantain pusseytoes, open woodland, woodland edges, frequent.

A. solitaria Rydb. Single-headed pusseytoes, open woodlands, rare.

**Anthemis cotula* L. Dog fennel, wasteground, frequent.

**Arctium minus* Bernh. Common burdock, wasteground, frequent.

Arnoglossum atriplicifolium (L.) H. Rob. Pale Indian-plantain, open woodlands, edges, rare.

A. muhlenbergii (Sch. Bip.) H. Rob. (*Cacalia muhlenbergii*), Great Indian plantain, open woods, infrequent.

**Artemisia annua* L. Sweet Annie, wasteground, infrequent.

**A. ludoviciana* Nutt. White sage, wasteground, infrequent.

Astranthium integrifolium (Michx.) Nutt. subsp. *Integrifolium*, daisy, wasteground, open areas.

Bidens aristosa (Michx.) Britton. Midwestern tickseed sunflower, open wet areas, frequent.

B. bipinnata L. Spanish needles, open woodlands, frequent.

B. discoidea (Torr. & A. Gray) Britton. Few-bracted beggar-ticks, Wet areas, frequent.

B. frondosa L. Devil's beggar-ticks, wet areas, often wasteground. Rare.

B. polylepis S. F. Blake. Ozark tickseed sunflower, open wet areas, infrequent.

**B. tripartita* L. European beggar ticks, open wet areas, frequent.

Brickellia eupatorioides (L.) Shinnars var. *eupatorioides*. (*Kuhnia eupatorioides*), False boneset, dry open areas, glades, barrens, infrequent.

**Carduus nutans* L. subsp. *nutans*. Musk thistle. wasteground, frequent.

**Centaurea maculosa* Lam. (*C. biebersteinii*). Spotted knapweed, wasteground, infrequent.

**Chrysanthemum leucanthemum* L. (*Leucanthemum vulgare*). Ox-eye daisy, wasteground, frequent.

**Chicorium intybus* L. Chicory, wasteground, frequent.

Cirsium altissimum (L.) Spreng. Tall thistle, wasteground, infrequent.

C. carolinianum (Walter) Fernald & B.G. Schub. Spring thistle, open woodlands, roadsides, rare.

C. discolor (Muhl. ex Willd.) Spreng. Field thistle, wasteground, frequent.

**C. vulgare* (Savi.) Ten. Bull thistle, wasteground, frequent.

Conoclinium coelestinum (L.) DC. (*Eupatorium coelestinum*), Mist-flower, open wet ground, frequent.

Conyza canadensis (L.) Cronquist var. *canadensis* Horseweed, wasteground, frequent.

Coreopsis auriculata L. Lobed tickseed, open woodlands, roadsides, infrequent.

**C. lanceolata* L. Longstalk tickseed, open woodlands, wasteground, infrequent.

C. major Walter. Forest tickseed, woodlands, frequent.

***C. pubescens* Elliott.** Hairy tickseed, open woodlands, rare.

C. tripteris L. Tall tickseed, open, often wet, woodlands, barrens, infrequent.

Doellingeria infirma (Michx.) Nees. Appalachian flat-topped white aster, woodlands, rare.

D. umbellata (Mill.) Nees. Tall flat-topped white aster, wet woodlands, rare.

Echinacea pallida (Nutt.) Nutt. var. *simulata* (McGregor) Binns, B. R. Baum & Arnason. Prairie coneflower, barrens, glade-like habitats, Rare.

E. purpurea (L.) Moench. Purple coneflower, open woodlands, barrens, glade-like habitats, rare.

Eclipta prostrata (L.) L. (*E. alba*). Yerba-de-tajo, open wet areas, infrequent.

Elephantopus carolinianus Raeusch. Carolina elephant's-foot, wasteground, open woods, infrequent.

Erechtites hieracifolia (L.) Raf. Fireweed, old fields, waste ground, infrequent.

Erigeron annuus (L.) Pers. Annual fleabane, wasteground, frequent.

E. philadelphicus L. Philadelphia daisy, wasteground, infrequent.

E. pulchellus Michx. Robin's plantain, open woodlands, wasteground, infrequent.

E. strigosus Muhl. Ex Willd. Rough fleabane, open woodlands, wasteground, infrequent.

Eupatorium album L. var. *album*. White-bracted eupatorium, open woodlands, barrens, fields, frequent.

E. fistulosum Barratt. Hollow-stemmed joe-pye weed, open wet woodlands, streamsides, infrequent.

E. hyssopifolium L. var. *laciniatum* A. Gray. Hyssopleaf eupatorium, old fields, barrens, infrequent.

E. perfoliatum L. Boneset, open wet areas, infrequent.

E. pilosum Walter. Ragged eupatorium, open wet areas, rare.

E. purpureum L. Purple-node Joe-Pye weed, open woodlands, wastegrounds, frequent.

E. rotundifolium L. Round-leaved eupatorium.

var. *ovatum* (Bigelow) Torr., old fields, barrens, open woods, infrequent.

var. *rotundifolium*, old fields, barrens, open woods, infrequent.

E. serotinum Michx. Late eupatorium, open woodlands, often wet, infrequent.

E. sessilifolium L. Sessile-leaved eupatorium, open woodlands, barrens, infrequent.

Eurybea divaricata (L.) G. L. Nesom (*Aster divaricatus*), Common white heart-leaved aster, woodlands, frequent.

E. macrophylla (L.) Cass. Big-leaved aster, woodlands, infrequent.

Euthamia graminifolia (L.) Nutt. ex Cass. Common flat-topped goldenrod, open wet areas, infrequent.

**Galinsoga quadriradiata* Ruiz. & Pav. Common quickweed, wasteground, rare.

Gamochaeta purpurea (L.) Cabrera. (*Gnaphalium purpureum*), Purple cudweed, wasteground, infrequent.

Hasteola suaveolens (L.) Pojark. (*Cacalia suaveolens*), Hastate Indian-plantain, wet areas, stream banks, rare.

Helenium autumnale L. Common sneezeweed, open wet areas, rare.

H. flexuosum Raf. Southern sneezeweed, open wet areas, infrequent.

Helianthus divaricatus L. Divaricate sunflower, open woodlands, frequent.

***H. eggertii* Small.** Eggert's sunflower, woodland edges, barrens, rare.

H. hirsutus Raf. Hairy sunflower, woodlands, frequent.

H. maximilianii Schrad. Maximilian's sunflower, roadsides, fields, barrens, rare.

H. microcephalus Torr. & A. Gray. Small-headed sunflower, open woodlands, woodland borders, infrequent.

H. mollis Lam. Ashy sunflower, barrens, infrequent.

H. occidentalis Riddell. Naked-stemmed sunflower, barrens, rare.

H. strumosus L. Rough-leaved sunflower, open woodlands, wasteground, infrequent.

H. tuberosus L. Jerusalem artichoke, open woodlands, fields, roadsides, infrequent.

Heliopsis helianthoides (L.) Sweet. Sunflower everlasting, dry woodlands, infrequent.

Heterotheca camporum (Greene) Shinnars. Prairie golden aster, wasteground, rare.

Hieracium gronovii L. Beaked hawkweed, Wasteground, frequent.

H. scabrum Michx. Sticky hawkweed, open woodlands, infrequent.

H. venosum L. Veiny hawkweed, Wasteground, frequent.

Ionactis linarifolius (L.) Greene. (*Aster linarifolius*), Stiff aster, open woodlands, barrens, rare.

Krigia biflora (Walter) S. F. Blake. Orange Dwarf-dandelion, open woodlands, wasteground, frequent.

K. dandelion (L.) Nutt. Colonial dwarf-dandelion, wet open areas, frequent.

K. virginica (L.) Willd. Virginia dwarf-dandelion, dry open woodlands and glades, frequent.

Lactuca canadensis L. Tall lettuce, open woodlands, wasteground, infrequent.

L. floridana (L.) Gaertn. Woodland lettuce, Open woodlands, wasteground, frequent.

**L. saligna* L. Willowleaf lettuce, open woodlands, wasteground, infrequent.

Liatris aspersa Michx. Lacerate blazing-star, Barren-like fields, roadsides, rare.

L. spicata (L.) Willd. Sessile blazing-star, barren-like fields, roadsides, rare.

L. squarrosa (L.) Michx. Plains blazing-star, barrens, open ground, infrequent.

L. squarrolosa Michx. Southern blazing-star, barrens, open ground, infrequent.

Oligoneuron rigidum (L.) Small. Stiff goldenrod.

var. *glabratum* (E.L. Braun) G.L. Nesom, barren-like fields, glades, rare.

var. *rigidum*., barren-like fields, glades, rare.

Packera anonyma (Alph. Wood) W.A. Weber & A. Love. Appalachian groundsel, open woodlands, rare.

P. aurea (L.) A. Love & D. Love. Heart-leaved groundsel, open woods, infrequent.

P. glabella (Poir.) C. Jeffery. Yellow top, wet areas, infrequent.

P. obovata (Muhl. ex Willd.) W. A. Weber & A. Love. Running groundsel, open woodlands.

P. paupercula (Michx.) W.A. Weber & A. Love. Norther meadow groundsel, streambanks, meadows, rare.

Parthenium integrifolium L. eastern parthenium, Barrens, open ground, infrequent.

Pluchea camphorata (L.) DC. Marsh fleabane, Wet to mesic areas, rare.

Polymnia canadensis L. Pale-flowered leaf-cup, woodlands, frequent.

Prenanthes altissima L. Tall white-lettuce, open woodlands, wasteground, infrequent.

P. serpentaria Pursh. Lion's foot, Sandy open woodlands, rare.

Pseudognaphalium obtusifolium (L.) Hilliard & B. L. Burt. Fragrant cudweed, wasteground, infrequent.

Pyrrhopappus carolinianus (Walter) DC. Carolina desert chicory, wasteground, frequent.

Ratibida pinnata (Vent.) Barnhart. Yellow coneflower, barrens, old fields, wasteground, infrequent.

Rudbeckia fulgida Aiton. Eastern coneflower.

var. *fulgida*., open areas, rare.

var. *umbrosia* (C.L. Boynt. & Beadle) Cronquist., open areas, rare.

R. hirta L. Black-eyed Susan, open areas, frequent.

R. laciniata L. var. *laciniata* Cut-leaf coneflower, wet to mesic areas, rare.

R. triloba L. var. *triloba* Three-lobed coneflower, Open woodlands, wasteground, infrequent.

Seriocarpus linifolius L. BSP. (*Aster solidagineus*), Narrow-leaved white-topped aster, barrens, open ground, rare.

Silphium integrifolium Michx. var. *integrifolium* Prairie rosinweed, Barrens, open areas, infrequent.

S. perfoliatum L. subsp. *perfoliatum* Cup-plant, open woodlands, barrens, rare.

***S. pinnatifidum* Elliott.** Cut-leaf rosinweed, barrens, open areas, rare.

S. terebinthinaceum Jacq. var. *terebinthaceum* Basal-leaved rosin-weed, barrens, rare.

S. trifoliatum L. var. *trifoliatum*. Whorled rosinweed, open woodlands, barrens, rare.

Smallanthus uvedalius (L.) Mack. Yellow-flowered leaf-cup, woodlands, frequent.

Solidago arguta Aiton var. *caroliniana* A. Gray. Forest goldenrod, woodlands, infrequent.

S. bicolor L. Silver-rod, Woodlands, rare.

S. caesia L. Axillary goldenrod, Woodlands, frequent.

S. canadensis L. Common goldenrod, old fields, frequent.

S. flexicaulis L. Zigzag goldenrod, Woodlands, infrequent.

S. gigantea Aiton. Smooth goldenrod, mesic to wet woodlands, meadows, rare.

- S. hispida* Muhl. Ex Willd. Hairy goldenrod, woodlands, infrequent.
- S. juncea* Aiton. Early goldenrod, open ground, often rocky, frequent.
- S. missouriensis* Nutt. var. *fasiculata* Holz. Missouri goldenrod, Barrens, rare.
- S. nemoralis* Aiton. Gray goldenrod, old fields, barrens, rare.
- S. odora* Aiton. Licorice goldenrod, Open woodlands, old fields, infrequent.
- S. patula* Muhl. Rough-leaved goldenrod, wet woodlands, rare.
- S. rugosa* Mill. Wrinkle-leaved goldenrod.
- subsp. *rugosa* Open woodlands, stream borders, rare.
- Subsp. *aspera* (Aiton) Fernald, open woodlands, rare.
- S. speciosa* Nutt. Showy goldenrod.
- var. *erecta* (Pursh) McMillan, dry open woodlands, barrens, rare.
- var. *rigidiuscula* Torr. & A. Gray, dry open woodlands, barrens, rare.
- S. sphacelata* Raf. Short-pappus goldenrod, Rocky woodlands, rare.
- S. ulmifolia* Muhl. Elm-leaved goldenrod, woodlands, infrequent.
- **Sonchus asper* (L.) Hill. Prickly sow-thistle, wasteground frequent.
- Symphotrichum cordifolium* (L.) G.L. Nesom. Common blue heart-leaved aster, open woodlands, infrequent.
- S. dumosum* (L.) G. L. Nesom Long-stalked aster, wasteground, frequent.
- S. laeve* (L.) Á. Love & D. Love var. *laeve*. Smooth aster, open woodlands, barrens, rare.
- S. lanceolatum* (Willd.) G. L. Nesom, (*Aster simplex*), mesic to generally wet open areas, frequent.
- S. lateriflorum* (L.) A. Love & D. Love. Goblet aster, wasteground, infrequent.
- S. lowrieianum* (Porter) G.L. Nesom. Lowrie's blue wood aster, woodlands, infrequent.

S. novae-angliae (L.) G.L. Nesom. New England aster, fields, roadsides, edges, frequent.

S. ontarione (Wiegand) G.L. Nesom. Bottomland aster, wet to mesic alluvial woodlands, infrequent.

S. patens (Aiton) G. L. Nesom var. *patens*, Claspig aster, Woodland borders, barrens, roadsides, infrequent.

S. pilosum (Willd.) G. L. Nesom, Old-field aster, old fields, roadsides, frequent.

***S. pratense* (Raf.) G. L. Nesom**, (*Aster sericeus*), Silky aster, barrens, glades, rare.

S. prenanthoides ((Muhl. ex Willd.) G.L. Nesom. Zigzag aster, wet areas, infrequent.

S. racemosum (Elliott) G. L. Nesom (*Aster vimineus*), Small-headed aster, wet to mesic open woodlands, wasteground, frequent.

S. shortii (Lindl.) G. L. Nesom. Midwestern blue heart-leaved aster, Woodlands, infrequent.

S. undulatum (L.) G. L. Nesom. (*Aster undulatus*), Claspig hear-leaved aster, woodlands, frequent.

S. urophyllum (DC.) G. L. Nesom (*Aster sagittifolius*) Arrow-leaved aster, Open woodlands, old fields, rare.

**Taraxacum officinale* (L.) Weber. Common dandelion, wasteground frequent.

Tragopogon dubius Scop. Fistulose goat's beard, open areas, wasteground, infrequent.

Verbesina alternifolia (L.) Britton. Wingstem, wet to alluvial woodlands, infrequent.

V. helianthoides Michx. Ozark flat-seed sunflower, dry open woodlands and open areas, rare.

V. occidentalis (L.) Walter. Southern flat-seed sunflower, mesic to wet fields, open woodlands.

V. virginica L. Frostweed, wet to mesic open areas and open woodlands.

Vernonia gigantea (Walter) Trel. (*V. altissima*). Ironweed, old fields, frequent.

Xanthium strumarium L. var. *canndense* (Mill.) Torr. & A. Gray. Common cocklebur

BALSAMINACEAE

Impatiens capensis Meerb. Orange touch-me-not, mesic to wet areas, infrequent.

I. pallida Nutt. Yellow touch-me-not, mesic to wet areas, infrequent.

BERBERIDACEAE

**Berberis thunbergii* DC. Japanese barberry, woodlands, rare.

Caulophyllum thalictroides (L.) Michx. Common blue cohosh, mesic woodlands, infrequent.

Jeffersonia diphylla (L.) Pers. Twin-leaf, mesic woodlands, rare.

Podophyllum peltatum L. May-apple, woodlands, frequent.

BETULACEAE

Alnus glutinosa (L.) Gaertn. Black alder, wet to mesic disturbed areas, rare.

Betula allegheniensis Britton. (*B. lutea*), Yellow birch, mesic woodlands, rare.

B. nigra L. River birch, alluvial woodlands, infrequent.

Carpinus caroliniana Walter. American hornbeam, mesic woodlands, infrequent.

Corylus americana Walter. American hazelnut, mesic woodlands, infrequent.

Ostrya virginiana (Mill.) K. Koch. Ironwood, woodlands, infrequent.

BIGNONIACEAE

Bignonia capreolata L. Cross-vine, woodlands, frequent.

Campsis radicans (L.) Seem. ex Bureau. Cross-vine, woodlands, wasteground, old fields, frequent.

**Paulownia tomentosa* (Thunb.) Steud. Princess-tree, wasteground, edges, infrequent.

BORAGINACEAE

**Buglossoides arvensis* (L.) I.M. Johnston. Corn-gromwell, wasteground, infrequent.

Cynoglossum virginianum L. Wild comfrey, woodlands, infrequent.

Hackelia virginiana (L.) I. M. Johnst. Stick-seed, woodlands, rare.

Heliotropium tenellum (Nutt.) Torr. Pasture heliotrope, barrens, glades, rare.

Lithospermum canescens (Michx.) Lehm. Hoary puccoon, open areas, roadsides, glades, barrens, infrequent.

L. latifolium Michx. Mesic woodlands, infrequent

Mertensia virginica (L.) Pers. ex Link. Virginia bluebells, alluvial woodlands, infrequent.

Myosotis macrosperma Engelm. Big-seed scorpion-grass, wasteground, infrequent.

M. verna Nutt. Early scorpion-grass, open woodlands, old fields, infrequent.

BRASSICACEAE

**Alliaria petiolata* (M. Bieb.) Cavara. & Gande. Garlic mustard, woodlands, frequent.

**Arabidopsis thaliana* (L.) Heynh. Mouse-ear cress, wasteground, infrequent.

Arabis canadensis L. Sickle-pod, woodlands, rare.

A. laevigata (Muhl.) Poir. var. *laevigata*. Smooth sickle-pod, woodlands, infrequent.

**Barbarea vulgaris* R. Br. Yellow rocket, wasteground, infrequent.

- **Brassica nigra* (L.) W. D. J. Koch. Black mustard, wasteground, frequent.
- **Capsella bursa-pastoris* (L.) Medik. Shepherd's purse, wasteground, frequent.
- Cardamine douglassii* (Torr.) Britton. Pink spring-cress, mesic woodlands, infrequent.
- **C. hirsuta* L. Hoary bitter-cress, wasteground, frequent.
- C. parviflora* L. var. *arenicola* (Britton) O.E. Schulz. Dry land bitter-cress, wasteground, infrequent.
- C. pensylvanica* Muhl. Pennsylvania bitter-cress, woodlands, rare.
- C. rhomboidea* (Pers.) DC. (*C. bulbosa*), Spring-cress, wet areas, infrequent.
- Dentaria diphylla* Michx. Broad-leaved toothwort, woodlands, infrequent.
- D. heterophylla* Nutt. Appalachian tooth wort, woodlands, infrequent.
- D. laciniata* Muhl ex Willd. Five-parted tooth wort, woodlands, frequent.
- D. multifida* Muhl. Dissected tooth wort, woodlands, rare.
- Draba brachycarpa* Nutt. ex Torr. & A. Gray. Short-fruited whitlow-grass, wasteground, rare.
- **D. verna* L. vernal whitlow-grass, wasteground, frequent.
- Iodanthus pinnatifidus* (Michx.) Steud. Purple rocket, woodlands, infrequent.
- **Lepidium campestre* (L.) R. Br. Field cress, wasteground, frequent.
- L. densiflorum* Schrad. Prairie peppergrass, wasteground, rare.
- L. virginicum* L. var. *virginicum*. Poor man's pepper, wasteground, frequent.
- Rorippa palustris* (L.) Besser. subsp. *feraldiana* (Butters & Abbe) Jonsell. Common yellow cress, open wet soil, infrequent.
- **R. sylvestris* (L.) Besser. Creeping yellow cress, wet areas, river banks, rare.
- Sibara virginica* (L.) Rollins. Sibara, wasteground, infrequent.
- **Sisymbrium officinale* L. Hedge mustard, wasteground, infrequent.

**Thlaspi arvense* L. Field penny-cress, wasteground, infrequent.

CABOMBACEAE

Brasenia schreberi J.F. Gmel. Water-shield, open water, rare.

CACTACEAE

Opuntia humifusa (Raf.) Raf. Eastern prickly-pear, glades, rare.

CAMPANULACEAE

Campanulastrum americana (L.) Small. (*Campanula americana*) Tall bellflower, woodlands, infrequent.

Lobelia cardinalis L. Cardinal flower, open wet areas, stream banks, rare.

L. inflata L. Indian tobacco, open woodlands, infrequent.

L. puberula Michx. Downy lobelia, glades, barrens, rare.

L. siphilitica L. Great blue lobelia, wet open woodlands, meadows, infrequent.

L. spicata Lam. Spiked lobelia, glades, barrens, infrequent.

Triodanis perfoliata (L.) Nieuwl. var. *perfoliata*. Venus-looking-glass, wasteground, frequent.

CAPPARACEAE

**Cleome hassleriana* Chodat. Pink queen, wasteground, rare.

CAPRIFOLIACEAE

**Lonicera japonica* Thunb. Japanese honeysuckle, wasteground, old fields, woodlands, frequent.

L. sempervirens L. Trumpet honeysuckle, open woodlands, rare.

Sambucus canadensis L. Common elderberry, old fields, wasteground, infrequent.

Symphoricarpos orbiculatus Moench. Coralberry, woodlands, frequent.

Triosteum angustifolium L. Yellowfruit horse-gentian, open woodlands, streamsides, rare.

T. aurantiacum E.P. Bicknell. Orangefruit horse-gentian, mesic woodlands, rare.

T. perfoliatum L. Feverwort, woodlands, rare.

Viburnum acerifolium L. Maple-leaf viburnum, woodlands, rare.

V. prunifolium L. Plumleaf viburnum, woodlands, infrequent.

V. rufidulum Raf. Rusty blackhaw, woodlands, infrequent.

CARYOPHYLLACEAE

**Cerastium glomeratum* Thuill. (*C. viscosum*), Clammy mouse-ear chickweed, wasteground, frequent.

C. nutans Raf. var. *nutans*. Nodding mouse-ear chickweed, mesic open woodlands, rare.

**C. vulgatum* L. (*C. fontanum* subsp. *vulgare*). Common mouse-ear chickweed, wasteground, disturbed areas, frequent.

**Dianthus armeria* L. Deptford pink, old fields, wasteground, frequent.

**Holosteum umbellatum* L. Jagged chickweed, wasteground, rare.

Minuartia patula (Michx.) Mattf. var. *patula*. Pitcher's stitchwort, limestone glades, infrequent.

Paronychia canadensis (L.) Alph. Wood. Forked chickweed, woodlands, infrequent.

P. fastigata (Raf.) Fernald. Hairy forked-chickweed, wasteground, rare.

**Saponaria officinalis* L. wasteground, old fields, infrequent.

Silene rotundifolia Nutt. Round-leaved catchfly, cliffs, rockhouses, rare.

S. stellata (L.) W. T. Aiton. Starry champion, woodlands, infrequent.

S. virginica L. Fire pink, woodlands, frequent.

**Stellaria media* (L.) Vill. Common chickweed, woodlands, wasteground, frequent.

Stellaria pubera Michx. Great chickweed, woodlands, infrequent.

CELASTRACEAE

Celastrus scandens L. American bittersweet, woodlands, wasteground, infrequent.

Euonymus americanus L. Strawberry-bush, woodlands, frequent.

E. atropurpureus Jacq. Wahoo, woodlands, infrequent.

CHENOPODIACEAE

**Chenopodium album* L. Lamb's quarters, wasteground, frequent.

**C. ambrosioides* L. Wormseed, wasteground, infrequent.

CISTACEAE

Lechea racemulosa Michx. Illinois pinweed, field, open woodlands, infrequent.

CLUSIACEAE

Hypericum canadense L. Canadian St. John's-wort, wet areas, rare.

H. denticulatum Walter. Coppery St. John's-wort, wet areas, rare.

H. dolabriforme Vent. Straggling St. John's-wort, glades, open rocky areas, rare.

H. drummondii (Grev. & Hook.) Torr. & A. Gray. Nits-and-lice, dry woodlands, rare.

H. frondosum Michx. Cedar glade St. John's-wort, glades, rare.

H. gentianoides (L.) BSP. Orange-grass, open wet areas, glades, rare.

H. hypericoides (L.) Crantz. subsp. *hypericoides*. St. Andrew's cross, Woodlands, infrequent.

H. mutilum L. Small-flowered St. John's-wort, wet areas, infrequent.

**H. perforatum* L. Common St. John's-wort, wasteground, old fields, infrequent.

H. prolificum L. Shrubby St. John's-wort, old fields, open areas, infrequent.

H. punctatum Lam. Spotted St. John's-wort, open areas, infrequent.

H. sphaerocarpum Michx. Round-fruited St. John's-wort, barrens, old fields, infrequent.

H. stragalum W.P. Adams & N. Robson., (*Ascyrum hypericoides* var. *multicaule*). St. Andrew's cross, woodlands, rare.

CONVOLVULACEAE

Calystegia sepium (L.) R. Br. var. *sepium*. Hedge bindweed, old fields, wasteground, frequent.

C. spithamea (L.) Pursh. Low bindweed, open areas, rare.

**Convolvulus arvensis* L. Field bindweed, wasteground, infrequent.

**Ipomoea coccinea* L. Red morning-glory, wasteground, rare.

**I. hederacea* Jacq. Ivy-leaved morning-glory, wasteground, infrequent.

I. lacunosa White morning-glory, wasteground, frequent.

I. pandurata (L.) G. Mey. Wild sweet potato vine, old fields, wasteground, frequent.

**I. purpurea* (L.) Roth. Common morning glory, wasteground, frequent.

CORNACEAE

Cornus alternifolia L. f. Alternate leaved dogwood, mesic woodlands, infrequent.

C. amomum Mill. subsp. *amomum*. Silky dogwood, open wet areas, infrequent.

C. drummondii C.A. Mey. Roughleaf dogwood, roadsides, thickets, infrequent.

C. florida L. Flowering dogwood, woodlands, frequent.

CRASSULACEAE

Sedum pulchellum Michx. Widow's cross, glades, infrequent

S. ternatum Michx. Three-leaved stonecrop, woodlands, infrequent.

CUCURBITACEAE

Sicyos angulatus L. Bur cucumber, wasteground, rare.

CUSCUTACEAE

Cuscuta gronovii Willd. Common dodder, old fields, infrequent.

DIPSACACEAE

**Dipsacus fullonum* L. Teasel, wasteground, frequent.

EBENACEAE

Diospyros virginiana L. Persimmon, woodlands, frequent.

ELAEAGNACEAE

**Elaeagnus umbellata* Thunb. Autumn olive, planted, escaped, fields, wasteground, infrequent.

ERICACEAE

Gaylussacia baccata (Wangenh.) K. Koch. Black huckleberry, woodlands, rare.

Gaultheria procumbens L. Wintergreen, woodlands, rare.

Kalmia latifolia L. Mountain laurel, sandy woodlands, rare.

Oxydendron arboreum (L.) DC. Sourwood, woodlands, infrequent.

Vaccinium pallidum Aiton. Low-bush blueberry, sandy woodlands, rare.

V. stamineum L. var. *stamineum*. Deerberry, woodlands, frequent.

EUPHORBIACEAE

Acalypha gracilens A. Gray. Shortstalk copperleaf, open areas, wasteground, infrequent.

A. rhomboidea Raf. Rhombic copperleaf, open areas, wasteground, infrequent.

A. virginica L. Virginia copperleaf, wasteground, infrequent.

Croton capitatus Michx. Woolly croton, open areas, wasteground, rare.

C. monanthogynus Michx. Prairie-tea, open areas, wasteground, frequent.

Crotonopsis elliptica Willd. (*Croton willdenowii*) Willdenow's rushfoil, open areas, wasteground, rare.

Euphorbia commutata Engelm. Tinted spurge, open, rocky woodlands, rare.

E. corollata L. Spurge, glade and barrens, infrequent.

**E. cyathophora* Murray. (*E. heterophylla*). Fire-on-the-mountain, rarely escaping, rare.

E. dentata Michx. Toothed spurge, wasteground, infrequent.

E. humistrata Engelm. ex A. Gray, (*Chamaeyce humistrata*). Small spreading sandmat, wasteground, rare.

E. maculata L. (*Chamaeyce maculate*), spotted sandmat, wasteground, frequent.

E. nutans Lag. (*Chamaeyce nutans*). Eyebane, wasteground, rare.

Tragia cordata Michx. Heart-leaved tragia, limestone woodlands, rare.

FABACEAE

**Albizia julibrissin* Durazz. Mimosa, planted, escaped, rare.

Amphicarpaea bracteata (L.) Fernald. American hogpeanut, open woodlands, old fields, infrequent.

Apios americana Medik. American groundnut, mesic to wet open woodlands, wetland edges, rare.

Chamaecrista fasciculata (Michx.) Greene Partridge-pea, old fields, barrens, infrequent.

C. nictitans (L.) Moench. Sensitive-pea, old fields, barrens, infrequent.

Circis canadensis L. redbud, woodlands, open areas, frequent.

Clitoria mariana L. Butterfly pea, open woodlands, roadsides, woodland edges, rare.

**Coronilla varia* L. Crown-vetch, wasteground, frequent.

Desmodium canescens (L.) DC. Hoary tick-trefoil, open woodlands, fields, infrequent.

D. ciliare (Muhl. ex Willd.) DC. (*D. marilandicum*, *D. obtusum*). Little-leaf tick-trefoil, dry woodlands, frequent.

D. cuspidatum (Muhl. ex Willd.) Loudon. Bug tick-trefoil, open woodlands, thickets, infrequent.

D. glutinosum (Muhl. ex Willd.) Alph. Wood. Cluster-leaf tick-trefoil, rocky woodlands, infrequent.

D. laevigatum (Nutt.) DC. Smooth tick-trefoil, dry woodlands, infrequent.

D. nudiflorum (L.) DC. Naked tick-trefoil, woodlands, frequent.

D. paniculatum (L.) DC. (*D. glabellum*, *D. perplexum*). Panicked tick-trefoil, dry woodlands, frequent.

D. pauciflorum (Nutt.) DC. Few-flowered tick-trefoil, mesic woodlands, infrequent.

D. rotundifolium DC. Round-leaved tick-trefoil, woodlands, frequent.

D. sessilifolium (Torr.) Torr. & A. Gray. Sessile-leaved tick-trefoil, open woodlands, barrens, infrequent.

D. viridiflorum (L.) DC. Velvety tick-trefoil, woodlands, infrequent.

Galatia volubilis (L.) Britton. Hairy milk-pea, dry woodlands, barrens, rare.

Gleditsia triacanthos L. Honey locust, woodlands, frequent.

Gymnocladus dioicus (L.) K. Koch. Kentucky coffee tree, woodlands, rare.

***Lespedeza capitata* Michx.** Bush-clover, barrens, rare.

**L. cuneata* (Dum. Cours.) G. Don. Chinese lespedeza, wasteground, frequent.

L. hirta (L.) Hornem. Hairy lespedeza, wasteground, infrequent.

L. intermedia (S. Watson) Britton. Wand lespedeza, dry woodlands, wasteground, frequent.

L. procumbens Michx. Downy trailing lespedeza, wasteground, frequent.

***L. steuvei* Nutt.** Velvety lespedeza, dry woodlands, rare.

**L. stipulacea* Maxim. (*Kummerowia stipulacea*), Korean-clover, wasteground, frequent.

**L. striata* (Thunb.) Hook. & Arn. (*Kummerowia striata*). Japanese clover, wasteground, frequent.

L. violacea (L.) Pers. Violet lespedeza, dry woodlands, rare.

L. virginica (L.) Britton. Virginia lespedeza, dry open woodlands, frequent.

**Medicago lupulina* L. Black medic, wasteground, rare.

**M. sativa* L. Alfalfa, wasteground, infrequent.

**Melilotus alba* L. White sweet clover, wasteground, frequent.

**M. officinalis* (L.) Pall. Yellow sweet clover, wasteground, frequent.

Orbexilum pedunculatum (Mill.) Rydb. (*Psoralea psoralioides*) Sampson's snakeroot, open woodlands, barrens, infrequent.

Phaseolus polystachios (L.) BSP. Wild bean, mesic woodlands, infrequent.

**Pueraria montana* (Lour.) Merr. var. *lobata* (Willd.) Maesen & S. M. Almeida. Kudzu, wasteground, frequent.

***Rhynchosia tomentosa* (L.) Hook. & A.J. Arn.** Snoutbean, dry shady woodlands, rare.

Robinia hispida L. Bristly locust, woodlands, rare.

R. pseudoacacia L. black locust, woodlands, thickets, frequent.

Senna hebecarpa (Fernald) H.S. Irwin & Barneby. Northern wild senna, open woodlands, thickets, rare.

S. marilandica (L.) Link. Southern wild senna, open woodlands, thickets, infrequent.

Strophostyles helvula (L.) Elliott. Annual woolly-bean, fields, barrens, rare.

S. umbellata (Muhl. Ex Willd.) Britton. Perennial woolly-bean, old fields, barrens, infrequent.

Stylosanthes biflora (L.) BSP. Pencil-flower, open rocky woodlands, glades, infrequent.

Tephrosia virginiana (L.) Pers. Virginia goat's rue, old fields, glades, infrequent.

**Trifolium arvense* L. Rabbit-foot clover, wasteground, rare.

**T. aureum* Pollich. (*T. agarium*), Palmate hop-clover, wasteground, infrequent.

**T. campestre* Schreb. (*T. procumbens*), Pinnate hop-clover, wasteground, frequent.

**T. hybridum* L. Alsike clover, old fields, wasteground, infrequent.

**T. pratense* L. Red clover, wasteground, frequent.

T. reflexum L. Annual buffalo clover, open woodlands, roadsides, rare.

**T. repens* L. White clover, wasteground, frequent.

Vicia caroliniana Walter. Pale vetch, woodlands, infrequent.

**V. sativa* L. Common vetch, old fields, wasteground, infrequent.

Wisteria frutescens (L.) Poir. (*W. macrostachya*), Wisteria, streambanks, alluvial woodlands, rare.

**W. sinensis* (Sims) Sweet. Chinese wisteria, thickets, roadsides, rare.

FAGACEAE

Castanea dentata (Marshall) Borkh. American chestnut, woodlands, rare.

Fagus grandifolia Ehrh. American beech, woodlands, frequent.

Quercus alba L. White oak, woodlands, frequent.

Q. bicolor Willd. Swamp white oak, wet woods, swamps, infrequent.

Q. coccinea Muenchh. Scarlet oak, dry woodlands, infrequent.

Q. falcata Michx. Southern red oak, dry woodlands, infrequent.

Q. imbricaria Michx. shingle oak, open woodlands, woodland edges, infrequent.

Q. macrocarpa Michx. bur oak, open woodlands, rare.

Q. marilandica Muenchh. Blackjack oak, dry, open woodlands, glades, infrequent.

Q. michauxii Nutt. Swamp chestnut oak, wet woodlands, rare.

Q. montana Willd. (*Q. prinus*), Chestnut oak, dry woodlands, infrequent.

Q. muhlenbergii Engelm. Chinquapin oak, calcareous woodlands, frequent.

Q. pagoda Raf. Cherrybark oak, wet woodlands, rare.

Q. palustris Meunchh. Pin oak, wet woods, frequent.

Q. phellos L. Willow oak, wet woodlands, rare.

Q. rubra L. Northern red oak, woodlands, frequent.

Q. shumardii Buckley. Shumard's oak, mesic limestone woodlands, infrequent.

Q. stellata Wangenh. Post oak, woodlands, often rocky, frequent.

Q. velutina Lam. Black oak, woodlands, frequent.

FUMARIACEAE

Corydalis flavula (Raf.) DC. Pale corydalis, mesic woodlands, frequent.

Dicentra canadensis (Goldie) Walp. Squirrel-corn, mesic woodlands, infrequent.

D. cucullaria (L.) Bernh. Mesic woodlands, frequent.

GENTIANACEAE

Bartonia paniculata (Michx.) Muhl. Twining screw-stem, wet areas, rare.

Frasera caroliniensis Walter. American columbo, woodlands, infrequent.

Gentiana andrewsii Griseb. Prairie closed gentian, barrens, open woodlands, rare.

***G. puberulenta* J. S. Pringle.** (*G. puberula*), Prairie gentian, barrens, rare.

G. saponaria L. Soapwort, wet meadows, open woodlands, rare.

G. villosa L. Striped gentian, open woodlands, rare.

Obolaria virginica L. Pennywort, woodlands, infrequent.

Sabatia angularis (L.) Pursh. Common marsh-pink, open wet areas, infrequent.

GERANIACEAE

Geranium carolinianum L. var. *carolinianum*. Carolina crane's- bill, wasteground, infrequent.

**G. dissectum* L. Cut-leaf crane's- bill, open woodlands, wasteground, infrequent.

G. maculatum L. Wild geranium, woodlands, frequent.

**G. molle* L. Dove's-foot crane's-bill, wasteground, frequent.

GROSSULARIACEAE

Ribes missouriense Nutt. ex Torr. & A. Gray. Missouri gooseberry, sloping woodlands, infrequent.

HALORAGINACEAE

Proserpinaca palustris L. var. *creba* Fernald & Griscom. Common mermaidweed, aquatic, infrequent.

HAMAMELIDACEAE

Hamamelis virginiana L. Witch-hazel, woodlands, infrequent.

Liquidambar styraciflua L. Sweetgum, woodlands, often wet, frequent.

HIPPOCASTANACEAE

Aesculus flava Ait. Yellow buckeye, woodlands, rare.

A. glabra Willd. Ohio buckeye, woodlands, infrequent.

HYDRANGEACEAE

Hydrangea arborescens L. American hydrangea, woodlands, frequent.

HYDROPHYLLACEAE

Hydrophyllum appendiculatum L. Biennial waterleaf, alluvial woodlands, frequent.

H. canadense L. Maple-leaved waterleaf, rich woodlands, infrequent.

H. macrophyllum Nutt. Hairy waterleaf, rich woodlands, infrequent.

Phacelia bipinnatifida Michx. Forest phacelia, woodlands, frequent.

P. purshii Buckley. Miami-mist, open woodlands, borders, infrequent.

JUGLANDACEAE

Carya cordiformis (Wangenh.) K. Koch. Bitternut hickory, woodlands, frequent.

C. glabra (Mill.) Sweet. Pignut hickory, woodlands, infrequent.

C. laciniosa (Michx.) Loud. Shellbark hickory, mesic, alluvial woodlands, infrequent.

C. ovalis (Wangenh.) Sarg. Red hickory, woodlands, infrequent.

C. ovata (Mill.) Sweet. Shagbark hickory, woodlands, frequent.

C. pallida (Ashe) Engl. & Graebn. Sand hickory, dry woodlands, rare.

C. tomentosa (Poir.) Nutt. (*C. alba*). Mockernut hickory, woodlands, frequent.

***Juglans cinerea* L.** White walnut, mesic woodlands, rare.

J. nigra L. Black walnut, woodlands, frequent.

LAMIACEAE

Agastache nepetoides (L.) Kuntze. Yellow giant hyssop, open woodlands, rare.

Blephilia ciliata (L.) Benth. Downy wood mint, open woodlands, open areas, infrequent.

B. hirsuta (Pursh) Benth. Hairy wood mint, woodlands, open areas, infrequent.

Clinopodium vulgare L. Wild basil, woodlands, rare.

Collinsonia canadensis L. Canada horse-balm, mesic woodlands, rare.

**Glechoma hederacea* L. Ground-ivy, open woodlands, wasteground, infrequent.

Hedeoma pulegioides (L.) Pers. American false-pennyroyal, woodlands, infrequent.

Isanthus bractiatus (L.) BSP. False pennyroyal, barrens, glades, infrequent.

**Lamium amplexicaule* L. Henbit, wasteground, frequent.

**L. purpureum* L. Red dead-nettle, wasteground, frequent.

Lycopus americanus Muhl. American water-horehound, wet areas, infrequent.

L. rubellus Moench. Stalked water-horehound, wetlands, infrequent.

L. uniflorus Michx. Northern water-horehound, wet areas, rare.

L. virginicus L. Virginia water-horehound, wetlands, infrequent.

**Melissa officinalis* L. Lemon balm, wasteground, rarely escapes, rare.

**Mentha X piperita* L. peppermint, wet, often disturbed areas, infrequent.

Monarda bradburiana Beck. Open woodlands, rare.

M. clinopodia L. Basal bee-balm, woodlands, infrequent.

M. fistulosa L. Wild bergamot, open woodlands, barrens, frequent.

M. russeliana Sims. Red-purple bee-balm, woodlands, rare.

**Mosla dianthera* (Buch.-Ham.) Maxim. Mosla, wasteground, rare.

**Perilla frutescens* (L.) Britton. Perilla mint, wasteground, infrequent.

Physostegia virginiana (L.) Benth. False dragonhead, glades, barrens, rare.

**Prunella vulgaris* L. var. *vulgaris*. Self-heal, wasteground, infrequent.

Pycnanthemum incanum (L.) Michx. Hoary mountainmint, open woodlands, frequent.

P. loomisii Nutt. Loomis' mountainmint, fields, thickets, rare.

P. pilosum Nutt. Pilose mountainmint, upland woodlands, thickets, rare.

P. pycnanthemoides (Leavenw.) Fernald. Southern mountainmint, open woodlands, fields, thickets, infrequent.

P. tenuifolium Schrad. Slender mountainmint, open woodlands, fields, thickets, infrequent.

Salvia lyrata L. Wild sage, wasteground, frequent.

Scutellaria elliptica Muhl. var. *elliptica*. Hairy skullcap, woodlands, infrequent.

S. incana Biehler. Downy skullcap, woodlands, infrequent.

S. lateriflora L. mad-dog skullcap, open wet areas, rare.

S. leonardii Epling. (*S. parvula* var. *missouriensis*) Shale skullcap, dry open woodlands, glades, rare.

S. nervosa Pursh. Veined skullcap, open woodlands, glades, infrequent.

S. ovata Hill. Heart-leaved skullcap, woodlands, frequent.

S. parvula Michx. Little skullcap, open woodlands, glades, infrequent.

Stachys tenuifolia Willd. Smooth Hedge-nettle, open woodlands, borders, infrequent.

Synandra hispidula (Michx.) Britton. Guyandotte beauty, mesic woodlands, rare.

Teuchrium canadense L. Canada germander, mesic woodlands, infrequent.

Trichostema dichotomum L. Forked blue-curls, dry, open areas, infrequent.

***T. setaceum* Houtt.** Narrow-leaf blue-curls, open areas, frequent.

LAURACEAE

Lindera benzoin (L.) Blume. Spicebush, mesic, often alluvial woodlands, frequent.

Sassafras albidum (Nutt.) Nees. Sassafras, woodlands, woodland edges, frequent.

LENTIBULARIACEAE

Utricularia gibba L. Creeping bladderwort, open water, ponds, rare.

LINACEAE

Linum medium (Planch.) Britton var. *texanum* (Olanck.) Fernald. Common yellow flax, dry, open woodlands, infrequent.

L. striatum Walter. Ridgestem yellow flax, wet areas, rare.

L. virginianum L. Virginia yellow flax, woodlands, infrequent.

LYTHRACEAE

Ammania coccinea Rottb. Valley redstem, open wet areas, rare.

Cuphea viscosissima Jacq. (*C. petiolata*), Blue wax-weed, old fields, barrens, rare.

Rotala ramosior (L.) Koehne. Toothcup, open wet areas, rare.

MAGNOLIACEAE

Liriodendron tulipifera L. Yellow poplar, woodlands, frequent.

Magnolia acuminata L. Cucumber magnolia, mesic woodlands, infrequent.

M. macrophylla Michx. Bigleaf magnolia, mesic woodlands, rare.

M. tripetala L. Umbrella magnolia, mesic woodlands, infrequent.

MALVACEAE

**Abutilon theophrasti* Medik. Velvet leaf, wasteground, infrequent.

Hibiscus laevis All. Smooth rose-mallow, open wet areas, rare.

H. moscheutos L. Rose-mallow, open wet areas, rare.

**Sida spinosa* L. Prickly sida, wastegrounds, old fields, infrequent.

MELASTOMACEAE

Rhexia mariana L. var. *mariana*. Pale meadow-beauty, mesic to wet open areas, rare.

R. virginica L. Wing-stem meadow beauty, mesic to wet open areas, rare.

MENISPERMACEAE

Menispermum canadense L. Moonseed, rich woodlands, rare.

MOLLUGINACEAE

**Mollugo verticillata* L. Carpetweed, wasteground, frequent.

MONOTROPACEAE

Monotropa hypopythys L. Pine-sap, woodlands, rare.

M. uniflora L. Indian-pipe, woodlands, infrequent.

MORACEAE

Maclura pomifera (Raf.) C. K. Schneid. Osage orange, open woodlands, wasteground, frequent.

Morus rubra L. Red mulberry, woodlands, infrequent.

NYSSACEAE

Nyssa sylvatica Marshall. Blackgum, woodlands, infrequent.

OLEACEAE

Chionathus virginicus L. Fringe tree, woodlands, rare.

Fraxinus americana L. White ash, woodlands, frequent.

F. pensylvanica Mashall. Green ash, alluvial and wet woodlands, frequent.

F. quadrangulata Michx. Blue ash, calcareous woodlands, infrequent.

**Ligustrum sinense* Lour. Chinese privet, open woodlands, wasteground, infrequent.

ONAGRACEAE

Circaea lutetiana (L.) Asch. & Magnus subsp. *canadensis* (L.) Asch. & Magnus. Common enchanter's nightshade, mesic woodlands, infrequent.

Gaura filipes Spach. Threadstalk gaura, open areas, rare.

Ludwigia alternifolia L. Square-pod water-primrose, open wet areas, rare.

L. decurrens Walter. Wingstem water-primrose, open wet areas, infrequent.

L. palustris (L.) Elliott. Common water primrose, ponds, infrequent.

Oenothera biennis L. Common evening primrose, wasteground, old fields, frequent.

O. fruticosa L. Common sundrops..

subsp. *Fruticosa*. open areas, rare.

subsp. *glauca* (Michx.) Straley. (*O. tetragona*), open areas, rare.

***O. perennis* (L.) Pennell.** Small sundrops, open wet areas, rare.

OROBANCHACEAE

Conopholis americana (L.) Wallr. Squawroot, woodlands, infrequent.

Epifagus virginiana (L.) Barton. Beechdrops, woodlands with American beech, frequent.

OXALIDACEAE

Oxalis grandis Small. Big yellow wood-sorrel woodlands, rare

O. stricta L. Common yellow wood sorrel, wasteground, frequent.

O. violacea L. Violet wood-sorrel, woodlands, infrequent.

PAPAVERACEAE

Sanguinaria canadensis L. Bloodroot, woodlands, infrequent.

Stylophorum diphyllum (Michx.) Nutt. Celandine poppy, woodlands, rare.

PASSIFLORACEAE

Passiflora incarnata L. May-pops passion-flower, open areas, infrequent.

P. lutea L. Yellow passion-flower, open areas, rare.

PHRYMACEAE

Phryma leptostachya L. Lopseed, woodlands, infrequent.

PHYTOLACCACEAE

Phytolacca americana L. Pokeweed, wasteground, open areas, frequent.

PLANTAGINACEAE

Plantago aristata Michx. Bracted plantain, wasteground, infrequent.

**P. lanceolata* L. English plantain, wasteground, frequent.

P. rugelii Decne. American plantain, wasteground, frequent.

P. virginica L. Hoary plantain, wasteground, rare.

PLATANACEAE

Platanus occidentalis L. Sycamore, alluvial woodlands, frequent.

POLEMONIACEAE

Phlox amoena Sims. Hairy phlox, open woodlands, rare.

***P. bifida* Beck subsp. *bifida*.** Sand phlox, Limestone glades and open areas, rare.

P. divaricata L. Woodland phlox, woodlands, frequent.

P. glaberrima L. (*P. carolina*) Smooth phlox, open areas, often wet, infrequent.

P. maculata L. Meadow phlox, wet, open areas, rare.

P. paniculata L. Summer phlox, alluvial woodlands, rare.

P. subulata L. var. *australis* (Wherry) Wherry. Moss pink, rocky woodlands, rare.

Polemonium reptans L. Jacob's-ladder, woodlands, infrequent.

POLYGALACEAE

Polygala ambigua Nutt. Loose milkwort, fields, open woodlands, rare.

P. incarnata L. Pink milkwort, barrens, open areas, rare.

P. sanguinea L. Blood milkwort, open areas, infrequent.

P. verticillata L. Whorled milkwort, barrens, glades, open areas, rare.

POLYGONACEAE

**Fallopia convolvulus* (L.) A. Love. (*Polygonum convolvulus*), Black bindweed, wasteground, frequent.

F. scandens (L.) Holub. (*Polygonum scandens*), False buckwheat, wasteground, infrequent.

Persicaria amphibia (L.) A. Gray. (*Polygonum amphibium*), Water smartweed, open wet areas, infrequent.

P. arifolia (L.) Haraldson. (*Polygonum arifolium*), Halberd-leaved tearthumb, open wet areas, rare.

P. hydropiperoides (Michx.) Small. (*Polygonum hydropiperoides*), False water-pepper, open wet areas, frequent.

**P. longiseta* (Bruijn) Kitagawa. (*Polygonum caespitosum*), Oriental lady's thumb, wasteground, often wet, frequent.

**P. maculosa* A, Gray (*Polygonum persicaria*), Spotted lady's thumb, open wet areas including wasteground, infrequent.

P. pensylvanica (L.) M. Gomez. (*Polygonum pensylvanicum*), Pennsylvania smartweed, open wet areas, frequent.

P. punctata (Elliott) Small. (*Polygonum punctatum*), Dotted smartweed, open wet areas, frequent.

P. sagittata (L.) H. Gross. (*Polygonum sagittatum*), Arrow-leaved tearthumb, open wet areas, infrequent.

P. virginiana (L.) Gaertner. (*Polygonum virginianum*) Jumpseed, woodlands, frequent.

**Rumex acetosella* L. Sheep Sorrel, wasteground, infrequent.

**R. crispus* L. Curly dock, wasteground, frequent.

**R. obtusifolius* L. Bitter dock, wet areas, infrequent.

**R. pulcher* L. Fiddle dock, wasteground, infrequent.

R. salicifolius Weinm. Mexican dock, wet areas, rare.

PORTULACACEAE

Claytonia virginica L. Spring beauty, woodlands, frequent.

**Portulaca oleracea* L. Common purslane, wasteground, infrequent.

PRIMULACEAE

**Anagallis arvensis* L. Pimpernel, wasteground, infrequent.

***Dodecatheon frenchii* (Vasey) Rydb.** French's shooting-star, sandstone rockhouses, rare.

D. media L. Eastern shooting-star, open woodlands, barrens, glades, infrequent.

Lysimachia ciliata L. Fringed loosestrife, wet areas, rare.

L. lanceolata Walter. Lance-leaved loosestrife, wet areas, infrequent.

**L. nummularia* L. Moneywort, wet areas, often wasteground. Infrequent.

L. quadrifolia L. Whorled loosestrife, woodlands, edges, infrequent.

Samolus floribundus HBK. Water pimpernel, wet areas, streambanks, infrequent.

PYROLACACEAE

Chimaphila maculata (L.) Pursh. Spotted-wintergreen, woodlands, infrequent.

RANUNCULACEAE

Actaea pachypoda Elliott. White baneberry, woodlands, infrequent.

Anemone quinquefolia L. var. *quinquefolia*. Wood anemone, woodlands, infrequent.

A. virginiana L. Tall anemone, woodlands, edges, frequent.

Anemonella thalictroides (L.) Spach. (*Thalictrum thalictroides*), Rue anemone, woodlands, frequent.

Aquilegia canadensis L. Red columbine, rocky woodlands, infrequent.

Cimicifuga racemosa (L.) Nutt. (*Actaea racemosa*), Black cohosh, woodlands, infrequent.

Clematis glaucophylla Small. White-leaved leather flower, woodlands, rare.

**C. terniflora* DC. Yam-leaved clematis, escaped, wasteground, rare.

C. versicolor Small ex Rydb. Pale leather flower, limestone woodlands, rare.

C. viorna L. Vasevine, open woodlands, rare.

C. virginiana L. Virgin's bower, open woodlands, borders, frequent.

Delphinium tricornis Michx. Dwarf larkspur, woodlands, frequent.

Enemion biternatum Raf. (*Isopyrum biternatum*) False rue anemone, woodlands, infrequent.

Hepatica acutiloba DC. (*H. nobilis* var. *acuta*), Sharp-lobed hepatica, mesic woodlands, infrequent.

H. americana (DC) Ker. Gawl. (*H. nobilis* var. *obtusa*) Round-lobed hepatica, mesic woodlands, infrequent.

Hydrastis canadensis L. Goldenseal, woodlands, rare.

Ranunculus abortivus L. Small flowered crowfoot, wasteground, frequent.

**R. bulbosus* L. Bulbous buttercup, wasteground, infrequent.

R. fascicularis Muhl. ex Bigelow. Thick-rooted buttercup, dry, open woodlands, barrens, infrequent.

R. hispidus Michx. Hispid buttercup.

var. *hispidus*. woodlands, infrequent.

var. *nitida* (Elliott) T. Duncan. (*R. septentrionalis*), Woodlands, infrequent.

R. micranthus (A. Gray) Nutt. ex Torr. & A. Gray. Hairy small flowered crowfoot, wasteground, frequent.

R. recurvatus Poir. Hooked buttercup, woodlands, infrequent.

**R. sardous* Crantz. Hairy buttercup, wasteground, infrequent.

Thalictrum clavatum DC. Mountain meadow-rue, mesic woodlands, cliffs, rare.

T. dioicum L. Early meadow-rue, mesic woodlands, infrequent.

T. pubescens Pursh. Tall meadow-rue, wet areas, infrequent.

T. revolutum DC. Skunk meadow-rue, dry woodlands, barrens, rare.

RHAMNACEAE

Ceanothus americanus L. var. *americanus*. Open woodlands, barrens, roadsides, rare.

Rhamnus carolinianus Walter. (*Frangula caroliniana*), Carolina buckthorn, woodlands, thickets, edges, frequent.

ROSACEAE

***Agrimonia gryposepala* Wallr.** Tall hairy agrimony, woodlands, rare.

A. parviflora Aiton. Harvestlice, wet areas, infrequent.

A. pubescens Wallr. Soft agrimony, open woodlands, wasteground, frequent.

- A. rostellata* Wallr. Beaked agrimony, woodlands, infrequent.
- Amelachier arborea* (F. Michx.) Fernald. Downy serviceberry, woodlands, frequent.
- Aronia arbutifolia* (L.) Pers. (*Photinia pyrifolia*), Red chokeberry, wet woodlands, rare.
- A. melanocarpa* (Michx.) Elliott. (*Photinia melanocarpa*), Black chokeberry, wet woodlands, rare.
- Aruncus dioicus* (Walter) Fernald. Goat's beard, mesic woodlands, rare.
- **Duchesnea indica* (Andr.) Focke. Indian strawberry, wasteground, frequent.
- Fragaria virginiana* Duchesne, Wild strawberry, open ground, frequent.
- Geum canadense* Jacq. White avens, woodlands, infrequent.
- G. vernum* (Raf.) Torr. & A. Gray. Spring avens, woodlands, rare.
- G. virginianum* L. Cream-colored avens, woodlands, infrequent.
- Physocarpus opulifolius* (L.) Maxim. Ninebark, streambanks, rare.
- Porteranthus stipulatus* (Muhl. Ex Willd.) Britton. Midwestern Indian-physic, woodlands, rare.
- **Potentilla recta* L. Sulfur five-finger, old fields, wasteground, frequent.
- P. simplex* Michx. Old field five-finger, open ground, frequent.
- Prunus americana* Marshall. American plum, old fields, wasteground, infrequent.
- P. angustifolia* Marshall. Chickasaw plum, open woodlands, edges, rare.
- **P. avium* (L.) L. Sweet cherry, occasionally escaped, rare.
- **P. persica* (L.) Batch. Peach, disturbed places, rare.
- P. serotina* Ehrh. Black cherry, woodlands, frequent.
- P. virginiana* L. Common chokecherry, mesic, often sloping woodlands, rare.
- Rosa carolina* L. Pasture rose, old fields, edges, frequent.

**R. multiflora* Thunb. Multiflora rose, woodlands, old fields, wasteground, frequent.

R. palustris Marshall. Swamp rose, wet areas, infrequent.

R. setigera Michx. Prairie rose, open woodlands, old fields, frequent.

Rubus allegheniensis Porter. Common blackberry, open areas, frequent.

R. argutus Link. Southern blackberry, open areas, frequent.

**R. bifrons* Vest ex Link. Himalaya berry, rarely escaped, wasteground, rare.

R. flagellaris Willd. Northern dewberry, open areas, frequent.

R. occidentalis L. Black raspberry, open areas, infrequent.

R. pensylvanicus Poir. (*P. frondosus*), Pennsylvania blackberry, open areas, frequent.

R. trivalis Michx. Coastal plain dewberry, open sandy areas, infrequent.

Spiraea tomentosa L. Hardtack, open wet to moist ground, rare.

Waldsteinia fragariodes (Michx.) Tratt. Woodlands, rare.

RUBIACEAE

Cephalanthus occidentalis L. buttonbush, Shrub swamps, pond edges, infrequent.

Diodia teres Walter. Rough buttonweed, open ground, frequent.

D. virginiana L. Virginia buttonweed, open wet ground, frequent.

Galium aparine L. Cleavers, woodlands, frequent.

G. circaeazans Michx. Forest bedstraw, woodlands and thickets, infrequent.

G. coccinum Torr. & A. Gray. Shiny bedstraw, woodlands, infrequent.

G. obtusum Bigelow. Bluntleaf bedstraw, wet, open woodlands and open ground, infrequent.

G. pilosum Aiton. Hairy bedstraw, woodlands, rare.

G. tinctorium L. Southern three-lobed bedstraw, wet areas, rare.

G. triflorum Michx. Fragrant bedstraw, woodlands, infrequent.

Houstonia caerulea L. Spring bluets, mesic woodlands, frequent.

H. canadensis Willd. Ex Roem. & Schult. Canadian bluets, rocky woodlands, rare.

H. longifolia Gaertn. var. *longifolia*. Long-leaved bluets, woodlands, infrequent.

H. purpurea (L.) Torr. & A. Gray. Broad-leaved bluets, woodlands, infrequent.

H. pusilla Schoepf. (*H. crassifolia*), Small bluets, woodlands, rare.

Mitchella repens L. Partridge-berry, rich woodlands, infrequent.

Sherardia arvensis L. Field madder, wasteground, rare.

RUTACEAE

Ptelea trifoliata L. Common hoptree, woodlands, rare.

SALICACEAE

**Populus alba* L. White poplar, wasteground, rare.

P. deltoides W. Bartram ex Marshall. Eastern cottonwood, wet areas, infrequent.

**Salix babylonica* L. (*S. x sepulcralis*). Weeping willow, rarely escaping, disturbed ground, rare.

S. eriocephala Michx. (*S. gracilis*), Diamond willow, stream banks, rare.

S. exigua Nutt. (*S. interior*), Sandbar willow, wet areas, stream banks, infrequent.

S. humilis Marshall var. *microphylla* (Andersson) Fernald. Upland willow, open dry areas, rare.

S. nigra Marshall. Black willow, wet areas, river borders, frequent.

S. sericea Marshall. Silky willow, wet areas, stream banks, infrequent.

SANTALACEAE

Comandra umbellata (L.) Nutt. var. *umbellata*. Bastard toad-flax, open ground, barnes, glades, rare.

SAPOTACEAE

Bumelia lycioides (L.) Pers. Smooth southern buckthorn, open woodlands, thickets.

SAURURACEAE

Saururus cernuus L. Lizard's-tail, wet areas, infrequent.

SAXIFRAGACEAE

Astilbe biternata (Vent.) Britton. Appalachian false goat's beard, mesic woodlands, rare.

Heuchera americana L. American alum root, woodlands, frequent.

H. parviflora Bartl. Small-flowered alum root.

var. *parviflora*. mesic cliffs, rockhouses, infrequent.

var. *puberula* (Mack. & Bush) E.F. Wells. mesic cliffs, rockhouses, rare.

H. villosa Michx. Maple-leaved alum root, mesic rocky woodlands, rare.

Mitella diphylla L. Bishop's cap, mesic woodlands, infrequent.

Penthorum sedoides L. Ditch stonecrop, open wet areas, infrequent.

Saxifraga virginiana Michx. Early saxifrage, woodlands, often rocky, frequent.

Tiarella cordifolia L. Foam flower, mesic woodlands, infrequent.

SCROPHULARIACEAE

Agalinis tenuifolia (Vahl.) Raf. Common false foxglove, open areas, infrequent.

Aureolaria flava (L.) Farw. var. *flava*. Smooth aureolaria, woodlands, rare.

A. patula (Chapm.) Pennell. Cumberland aureolaria, rocky woodlands, rare.

A. virginica (L.) Pennell. Downy aureolaria, woodlands, rare.

Baccopa rotundifolia (Michx.) Wettst. Water hyssop, wet to shallow water habitats, rare.

Buckneria americana L. Blue hearts, barrens, rare.

Chelone glabra L. White turtlehead, wet areas, rare.

C. obliqua L. var. obliqua. Purple turtlehead, wet areas, rare.

Diastoma macrophylla (Nutt.) Raf. Mullein foxglove, mesic woodlands, rare.

Gratiola neglecta Torr. Clammy hedge-hyssop, open wet areas, rare.

G. virginiana L. Roundfruit hedge-hyssop, open wet areas, rare.

Leucospora multifida (Michx.) Nutt. Narrowleaf paleseed, open wet areas, infrequent.

**Linaria vulgaris* Mill. Butter-and-eggs. Wasteground, rare.

Lindernia dubia (L.) Pennell. False pimpernel.

var. *anagallidea* (Michx.) Cooperr. (*L. anagallidea*). open wet areas, infrequent.

var. *dubia*. open wet areas, infrequent.

Mimulus alatus Aiton. Monkey-flower, wet, open ground, infrequent.

Pedicularis canadensis L. Forest lousewort, woodlands, infrequent.

Penstemon canescens (Britton) Britton. Ashy beardtongue, dry woodlands, rare.

P. digitalis Nutt. Ex Sims. Foxglove beardtongue, mesic to wet open woodlands and wet areas, rare.

P. hirsutus (L.) Willd. Hairy beardtongue, open woodlands, infrequent.

P. laevigatus (L.) Aiton. (*P. calycosus*). Smooth beardtongue. Open areas, infrequent.

P. pallidus Small. Eastern white beardtongue, old fields, glades, barrens, infrequent.

P. tenuiflorus Pennell. Kentucky beardtongue, dry, woodlands, open rocky areas, infrequent.

Scrophularia marilandica L. Eastern figwort, open woodlands, edges, rare.

**Verbascum blattaria* L. Moth mullein, wasteground, frequent.

**V. thapsus* L. Common mullein, wasteground, frequent.

**Veronica arvensis* L. Corn speedwell, wasteground, frequent.

V. peregrina L. subsp. *Peregrina*. Purslane speedwell, wasteground, infrequent.

**V. serpyllifolia* L. Thyme-leaved speedwell, wasteground, frequent.

Veronicastrum virginicum (L.) Farw. Culver's root, open areas, rare.

SIMAROUBACEAE

**Ailanthus altissima* (Mill.) Swingle. Tree-of-heaven, wasteground, edges, thickets, infrequent.

SOLANACEAE

**Datura stramonium* L. Jimsonweed, wasteground, infrequent.

Physalis heterophylla Nees. Clammy ground-cherry, wasteground, infrequent.

P. longifolia Nutt. Longleaf ground-cherry, wasteground, frequent.

P. pubescens L. Downy ground-cherry, open woodlands, fields, infrequent.

P. virginiana Mill. Virginia ground-cherry, open woodlands, barrens, rare.

Solanum carolinense L. Horse-nettle, wasteground, infrequent.

**S. ptycanthum* Dunal ex DC. Black nightshade, wasteground, infrequent.

STAPHYLEACEAE

Staphylea trifolia L. Bladdernut, woodlands, rare.

THYMELAEACEAE

Dirca palustris L. Leatherwood, mesic woodlands, rare.

TILIACEAE

Tilia americana L. var. *americana*. Basswood, woodlands, infrequent.

ULMACEAE

Celtis laevigata Willd. Sugarberry, wet woodlands, riverbanks, rare.

C. occidentalis L. Common hackberry, woodlands, frequent.

C. tenuifolia Nutt. Dwarf hackberry, dry open woodlands, barrens, frequent.

Ulmus alata Michx. Winged elm, glades, barrens, thickets, frequent.

U. americana L. American elm, mesic woodlands, frequent.

U. rubra Muhl. Slippery elm, mesic woodlands, often alluvial, infrequent.

***U. serotina* Sarg.** September elm, limestone woodlands, rare.

U. thomasi Sarg. Rock elm, rocky woodlands, rare.

URTICACEAE

Boehmeria cylindrica (L.) Sw. False nettle, woodlands, infrequent.

Laportea canadensis (L.) Wedd. Wood-nettle, mesic woodlands, infrequent.

Parietaria pensylvanica Muhl. Ex Willd. Pellitory, woodlands, rare.

Pilea pumila (L.) A. Gray. Clearweed, mesic woodlands, infrequent.

VALERIANACEAE

Valeriana pauciflora Michx. Valerian, mesic woodlands, often alluvial, infrequent.

VERBENACEAE

Phyla lanceolata (Michx.) Greene. Fogfruit, open wet areas, often disturbed areas, rare.

Verbena canadensis (L.) Britton. Rose vervain, open areas, rare.

V. hastata L. Common vervain, open wet areas, infrequent.

V. simplex Lehm. Narrow-leaved vervain, wasteground, frequent.

**V. stricta* Vent. Hoary vervain, wasteground, infrequent.

V. urticifolia L. White vervain, open woodlands, edges, fields, infrequent.

VIOLACEAE

Hybanthus concolor (T. F. Forst.) Greene. Green violet, mesic woodlands, infrequent.

Viola bicolor Pursh. Field pansy, wasteground, infrequent.

V. blanda Willd. Sweet white violet, mesic woodlands, rare.

V. canadensis Aiton. var. *canadensis*. Canada violet, mesic woodlands, rare.

V. cucullata Aiton. Marsh blue violet, spring seeps, stream banks, open wet areas, infrequent.

V. hirsutula Brainerd. Woodlands, infrequent.

V. labradorica Schrank. American dog violet, low woodlands, streamsides, rare.

V. lanceolata L. Lance-leaved violet, open wet areas, rare.

V. palmata L. var. *palmata*. Wood violet, woodlands, infrequent.

V. pedata L. var. *pedata*. Bird's foot violet, open ground, rare.

V. primulifolia L. var. *primulifolia*. (*Viola* x *primulifolia*). Primrose-leaved violet, open wet areas, rare.

V. pubescens Aiton.

var. *pubescens*. Downy yellow violet, mesic woodlands, rare.

var. *scabriuscula* Torr. & A. Gray. Smooth yellow violet, mesic woodlands, often alluvial, infrequent.

V. rostrata Pursh. Long-spurred violet, mesic woodlands, rare.

V. sagittata Aiton. var. *sagittata*. Arrow-leaved violet, open, sandy ground, rare.

V. sororia Willd.

var. *missouriensis* (Green) McKinney. Missouri violet, alluvial woodlands, frequent.

var. *sororia* Common blue violet, woodlands, wasteground, frequent.

V. striata Aiton. Cream white violet, alluvial woodlands, infrequent.

V. walteri House var. *walteri*. Walter's violet, woodlands, rare.

VISCACEAE

Phoradendron leucarpum (Raf.) Reveal. & M. C. Johnst. (*P. serotinum*), American Mistletoe, scattered host trees, infrequent.

VITACEAE

Parthenocissus quinquefolia (L.) Planch. Virginia creeper, woodlands, open ground, frequent.

Vitis aestivalis Michx. Summer grape, woodlands, thickets, frequent.

V. cinerea Engelm. var. *cinerea*. Downy grape, wet woodlands and thickets, infrequent.

***V. labrusca* L.** Fox grape, thickets, edges, rare.

V. palmata Vahl. Red grape, wet woodlands, rare.

V. rotundifolia Michx. Muscadine grape, woodlands, infrequent.

Vitis vulpina L. Frost grape, woods, wet to mesic woodlands and thickets, infrequent.

MONOCOTYLEDONAE

AGAVACEAE

Manfreda virginiana (L.) Rose. False aloe, barrens, open rocky areas, infrequent.

Yucca filamentosa L. Adam's needle, open areas, open woodlands (escaped), rare.

ALISMATACEAE

Sagittaria brevirostra Mack. & Bush. Midwestern arrowhead, open wet areas, infrequent.

***S. graminea* Michx.** Grass-leaved sagittaria, wet areas, rare.

***S. platyphylla* (Engelm.) J G. Sm.** Sessile-fruit arrowhead, open wet areas, rare.

***S. rigida* Pursh.** Sessile-fruited sagittaria, wet areas, rare.

ALLIACEAE

Allium canadense L. Wild onion, open areas, infrequent.

A. cernuum Roth. Nodding onion, rocky glades, rare.

**A. sativum* L. Garlic, may escape plantings, disturbed places, rare.

A. tricoccum Sol. Ramps, woodlands, rare.

**A. vineale* L. Field garlic, wasteground, frequent.

Nothoscordum bivalve (L.) Britton. False garlic, open, often rocky areas, infrequent.

AMARYLIDACEAE

Hymenocallis occidentalis (LeConte) Kunth. Spider-lily, wet woodlands, rare.

ARACEAE

Arisaema dracontium (L.) Schott. Green-dragon, mesic woodlands, rare.

A. triphyllum (L.) Schott. Jack-in-the-pulpit, woodlands, infrequent.

ASPARAGACEAE

**Asparagus officinalis* L. Asparagus, wasteground, escaped.

COMMELINACEAE

**Commelina communis* L. Common dayflower, open woodlands, edges, wasteground, infrequent.

C. virginica L. Virginia dayflower, wet woodlands, rare.

Tradescantia subaspersa Ker Gawl. Wide-leaved spiderwort, mesic woodlands, edges, infrequent.

T. virginiana L. Virginia spiderwort, open woodlands, infrequent.

CONVALLARIACEAE

Maianthemum racemosum (L.) Link. False Solomon's seal, mesic woodlands, frequent.

***M. stellatum* (L.) Link.** Starry false Solomon's-seal, woodlands, rare.

Polygonatum biflorum (Walter) Elliott. (*P. commutatum*) Solomon's seal, mesic woodlands, frequent.

P. pubescens (Willd.) Pursh. Hairy Solomon's-seal, mesic woodlands, rare.

CYPERACEAE

Carex albicans Willd. Ex Spreng.

var. *albicans*. Whitetinge sedge, dry woodlands, frequent.

var. *emmonsii* (Dewey ex Torr.) J. Rettig. Emmons' sedge, woodlands, rare.

C. albursina Sheldon. White bean sedge, mesic woodlands, frequent.

C. amphibola Steud. Narrow-leaved sedge, woodlands, frequent.

C. blanda Dewey. Woodland sedge, woodlands, frequent.

C. brevior (Dewey) Mack. Ex Lunell. Short-beak sedge, woodlands, rare.

C. careyana Torr. ex dewey. Carey's sedge, mesic woodlands, rare.

C. cephalophora Muhl. ex Willd. Oval-headed sedge, open areas, wasteground, frequent.

C. communis L. H. Bailey. Fibrous-rooted sedge, woodlands, rare.

C. complanata Torr. & Hook. Hirsute sedge, open ground, fields, thickets, infrequent

C. crinita Lam. var. *crinita*. Fringed sedge, open wetlands, frequent.

***C. decomposita* Muhl.** Cypress-knee sedge, Wet woodlands, rare.

C. digitalis Willd. var. *digitalis*. Slender wood sedge, woodlands, frequent.

C. eburnea Boott. Open, rocky ground, rare.

C. flaccosperma Dewey. Thin-fruited sedge, woodlands, infrequent.

C. frankii Kunth. Frank's sedge, open wet areas, ditches, frequent.

C. glaucoidea Tuck. Blue sedge, open woodlands, edges, infrequent.

C. gracilescens Steud. Slender sedge, woodlands, rare.

C. gynandra Schwein. Nodding sedge, open to semi-open wetlands, infrequent.

- C. grayi* J. Carey. Gray's sedge, riparian woodlands, infrequent.
- C. hirsutella* Mack. Hairy-leaved sedge, open woodlands, infrequent.
- C. hirtifolia* Mack. Pubescent sedge, woodlands, rare.
- C. jamesii* Schwein. James' sedge, mesic woodlands, frequent.
- C. laevivaginata* (Kuk.) Mack. Smooth-sheath sedge, wet areas, infrequent.
- C. laxiculmis* Schwein. var. *laxiculmis*. Spreading sedge, mesic woodlands, rare.
- C. laxiflora* Lam. var. *laxiflora*. Loose-flowered sedge, woodlands, frequent.
- C. lupulina* Muhl. ex Willd. Hop sedge, wet areas, frequent.
- C. lurida* Wahlenb. Sallow sedge, wet areas, frequent.
- C. meadii* Dewey. Mead's sedge, open rocky areas, rare.
- C. muhlenbergii* Schwein. var. *enervis* Boott. Muhlenberg's sedge, open woodlands, edges, rare.
- C. nigromarginata* Schwein. Black-edged sedge, woodlands, infrequent.
- C. oligocarpa* Schkuhr ex Willd. Rich woods sedge, woodlands, frequent.
- C. pennsylvanica* Lam. Pennsylvania sedge, woodlands, frequent.
- C. picta* Steud. Painted sedge, woodlands, rare.
- C. plantaginea* Lam. Plantain-leaved sedge, mesic woodlands, infrequent.
- C. platyphylla* J. Carey. Broad-leaved sedge, mesic woodlands, infrequent.
- C. retroflexa* Muhl. Reflexed sedge, woodlands, infrequent.
- C. rosea* Schkuhr ex Willd. Rosy sedge, mesic woodlands, frequent.
- C. squarrosa* L. Squarrose sedge, wet areas, infrequent.
- C. stratula* Michx. Lined sedge, woodlands, rare.
- C. swanii* (Fernald) Mack. Swan's sedge, woodlands, infrequent.

- C. texensis* (Torr.) L.H. Bailey. Texas sedge, woodlads, rare.
- C. tribuloides* Wahl. var. *tribuloides*. Blunt broom sedge, wet areas, frequent.
- C. typhina* Michx. Cattail sedge, wet areas, infrequent.
- C. virescens* Muhl. ex Willd. Ribbed sedge, woodlands, rare.
- C. vulpinoidea* Michx. Fox sedge, open wet areas, frequent.
- C. willenovii* Schkuhr ex. Willd. Willdenow's sedge, mesic woodlands, rare.
- Cyperus echinatus* (L.) Alph. Wood. Globe flatsedge, old fields, often wet, rare.
- C. flavescens* L. Yellow flatsedge, open wet areas, stream borders, frequent.
- C. odoratus* L. Fragrant flatsedge, wasteground, rare.
- C. pseudovegatus* Steud. Marsh flatsedge, open wetlands, rare.
- C. retrofractus* (L.) Torr. Rough flatsedge, roadsides, pastures, rare.
- C. retrorsus* Chapm. Pine barren flatsedge, disturbed ground, rare.
- C. squarrosus* L. Bearded flatsedge, open ground, rare.
- C. strigosus* L. Straw-colored flatsedge, open wetlands, ditches, frequent.
- Dulichium arundinaceum* (L.) Britton. Three-way sedge, wet areas, pond borders, rare.
- Eleocharis engelmannii* Steud. Engelmann's spikerush, open wet areas, including wasteground, frequent.
- E. erythropoda* Steud. Bald spike rush, open wet areas, infrequent.
- E. obtusa* (Willd.) Schult. Blunt spike rush, wet areas, frequent.
- E. ovata* (Roth.) Roem. & Schult. Ovate spike rush, open wet areas, frequent.
- E. palustris* (L.) Roem. & Schult. Common spikerush, open wet areas, infrequent.
- E. quadrangulata* (Michx.) Roem. & Schult. Squarestem spikerush, pond borders, rare.

E. tenuis (Willd.) Schult. var. *tenuis*. Slender spikerush, open wet areas, rare.

Fimbristylis autumnalis (L.) Roem. & Schult. Slender fimbry, open wet areas, rare.

Rhynchospora capitellata (Michx.) Vahl. Brownish beak-rush, wet meadows, rare.

R. corniculata (Lam.) A. Gray. Shortbristle horned beakrush, open wet areas, rare.

Schoenoplectus tabernaemontana (C.C. Gmel.) Palla. Softstem bulrush, open wetlands, pond borders, rare.

Scirpus atrovirens Willd. Black bulrush, open wet areas, frequent.

S. georgianus R.M. Harper. Georgia bulrush, open wet areas, rare.

S. pendulus Muhl. ex Elliott. Rufous bulrush, open wetlands, rare.

S. polyphyllus Vahl. Leafy bulrush, open, semi-open wetlands, infrequent.

S. cyperinus (L.) Kunth. Wool-grass, open wet areas, infrequent.

***Scleria ciliata* Michx.** Fringed nut-rush, barren-like fields, often wet, rare.

S. triglomerata Michx. Whip nut-rush, barren-like areas, rare.

DIOSCOREACEAE

**Dioscorea polystachya* Turcz. (*D. oppositifolia*), Chinese yam, escaped, open woodlands, wasteground, rare.

D. villosa L. (*D. quaternata*). Wild yam, woodlands, frequent.

HEMEROCALLIDACEAE

**Hemerocallis fulva* L. Day-lily, wasteground, infrequent.

HYACINTHACEAE

Camassia scilloides (Raf.) Cory. Wild hyacinth, usually limestone, often alluvial woodlands, rare.

**Ornithogalum umbellatum* L. Star-of-Bethlehem, wasteground, rare.

**Muscari botryoides* (L.) Mill. Common grape hyacinth. Wasteground, infrequent.

HYPOXIDACEAE

Hypoxis hirsuta (L.) Coville. Yellow star-grass, open rocky areas, infrequent.

IRIDACEAE

**Belamcanda chiensis* (L.) DC. Blackberry-lily, wasteground, edges, rare.

Iris cristata Soland. ex Aiton. Dwarf crested iris, mesic woodlands, infrequent.

Sisyrinchium albidum Raf. White blue-eyed-grass, barrens, open rocky areas, frequent.

S. angustifolium Mill. Narrowleaf blue-eyed-grass, open ground, often wet, rare.

JUNCACEAE

Juncus acuminatus Michx. Knotty-leaved rush, open wet areas, infrequent.

J. brachycarpus Engelm. Short-fruited rush, open wet areas, rare.

J. effusus L. Soft rush, open wet areas, frequent.

J. secundus P. Beauv. Lopsided rush, open wet areas, rare.

J. tenuis Willd. Path rush, wet areas, paths/trails, frequent.

Luzula echinata (Small) F. J. Herm. Prickly woodrush, woodlands, infrequent.

L. multiflora (Ehrh.) Lej. Common woodrush, woodlands, infrequent.

LEMNACEAE

Lemna minor L. Lesser duckweed, open water, infrequent.

Spirodela polyrhiza (L.) Schleid. Greater duckweed, ponds, infrequent.

LILIACEAE

Erythronium albidum Nutt. White fawn-lily, mesic woodlands, rare.

E. americanum Ker. Yellow fawn-lily, mesic woodlands, infrequent.

Lilium canadense L. Canada lily, open wet to mesic ground, rare.

L. michiganense Farw. Michigan lily, edges, meadows, rare.

***L. philadelphicum* L.** Wood lily, open woodlands, barrens, rare.

Medeola virginiana L. Indian-cucumber, mesic woodlands, rare.

MELANTHIACEAE

Chamaelirium luteum (L.) A. Gray. Fairy-wand, old fields, barrens, rare.

***Veratrum woodii* J. W. Robbins.** (*Melanthium woodii*) False hellebore, mesic woodlands, rare.

ORCHIDACEAE

Aplectrum hyemale (Muhl. ex Willd.) Torr. Putty-root, woodlands, frequent.

Corallorhiza odontorhiza (Willd.) Nutt. Autumn coral-root, woodlands, rare.

C. wisteriana Conrad. Spring coralroot, mesic woodlands, rare.

***Cypripedium parviflorum* Salisb. Yellow lady-slipper.**

var. *parviflorum*, mesic woodlands, rare.

var. *pubescens* (Willd.) O. W. Knight. (*C. calceolus*), mesic woodlands, rare.

Galearis spectabilis (L.) Raf. Showy orchis, mesic woodlands, rare.

Goodyera pubescens (Willd.) R. Br. Rattlesnake-plantain, woodlands, infrequent.

Hexalectris spicata (Walter) Barnhart. Crested coralroot, woodlands, rare.

Liparis lilifolia (L.) Rich. ex. Lindl. Large twayblade, mesic woodlands, rare.

Platanthera clavellata (Michx.) Leur. Clubspur orchid, wet woodlands, rare.

P. lacera (Michx.) G. Don. Ragged fringed orchid, wet areas especially wet meadows, rare.

Spiranthes cernua (L.) Rich. Nodding ladies'-tresses, open areas, infrequent.

S. lacera (Raf.) Raf. var. *gracilis* (Bigelow) Luer. (*S. gracilis*), Slender ladies'-tresses, open areas, rare.

S. ovalis Lindl. var. *erostella* Catling. Oval ladies'-tresses, open ground, rare.

S. tuberosa Raf. Little ladies'-tresses, open ground, rare.

S. vernalis Engelm. & A. Gray. Spring ladies'-tresses, open ground, rare.

Tipularia discolor (Pursh) Nutt. Crane-fly orchid, mesic woodlands, rare.

Triphora trianthophora (Sw.) Rydb. subsp. *trianthophora*. Three-birds orchid, mesic woodlands.

POACEAE

Agrostis elliottiana Schult. Awned bent grass, open woodlands, fields, roadsides, rare.

**A. gigantea* Roth. (*A. alba*). Redtop, open areas, often wet, infrequent.

A. hyemalis (Walter) BSP. Winter bent grass, open ground, infrequent.

A. perennans (Walter) Tuck. Autumn bent grass, open ground, infrequent.

Andropogon gerardii Vitman. Big bluestem, Barrens, open ground, infrequent.

A. gyrans Elliott. (*A. elliottii*), Elliott's broomsedge, open ground, infrequent.

A. ternarius Michx. Split beard bluestem, open ground, rare.

A. virginicus L. var. *virginicus*. Broomsedge, old fields, frequent.

**Anthoxanthum odoratum* L. Sweet vernal grass, open woodlands, wasteground, infrequent.

Aristida dichotoma Michx. Churchmouse three-awn, open ground, infrequent.

- A. oligantha* Michx. Prairie three-awn, open ground, infrequent.
- A. purpuracens* Poir. Arrowfeather three-awn, dry open areas, barrens, rare.
- Arundinaria gigantea* (Walter) Muhl. Giant cane, woodland and stream edges, rare.
- Brachyelytrum erectum* (Schreb.) P. Beauv. var. *erectum*. Bearded shorthusk, woodlands, infrequent.
- **Bromus commutatus* Schrad. Hairy chess, wasteground, frequent.
- **B. japonicus* Thunb. Japanese chess, wasteground, frequent.
- B. nottawayanus* Fernald. Virginia brome, woodlands, rare.
- B. pubescens* Muhl. (*B. purgans*). Canada brome, woodlands, infrequent.
- **B. racemosus* L. Bald brome, wasteground, infrequent.
- **B. sterilis* L. Barren brome, wasteground, infrequent.
- **B. tectorum* L. Downy chess, wasteground, frequent.
- Chasmanthium latiflorum* (Michx.) H.O. Yates. River wood oats, woodlands, often alluvial, frequent.
- C. laxa* (L.) H.O. Yates. Slender wood oats, wet woodlands, infrequent.
- Cinna arundinacea* L. Sweet wood reed, alluvial woodlands, rare.
- **Cynodon dactylon* (L.) Pers. Bermuda grass, wasteground, frequent.
- **Dactylis glomerata* L. Orchard grass, wasteground, frequent.
- Danthonia spicata* (L.) P. Beauv. Oat grass, open woodlands, infrequent.
- Diarrhena americana* P. Beauv. American beakgrain, mesic woodlands, frequent.
- Dichantherium aciculare* (Desv. ex Poir.) Gould & C.A. Clark subsp. *angustifolium* (Elliott) Freckmann & Lelong. Narrow-leaved panic grass, sandy, open woodlands, rare.

D. acuminatum (Sw.) Gould & C.A. Clark. Hairy panic grass.

subsp. *acuminatum*, open woodlands, roadsides, infrequent.

subsp. *fasiculatum* (Torr.) Freckmann & Lelong, open woodlands, roadsides, infrequent.

D. boscii (Poir.) Gould & C.A. Clark. Bosc's panic grass, open woodlands, frequent.

D. clandestinum (L.) Gould. Deer-tongue grass, open woodlands, streambanks, frequent.

D. commutatum (Schult.) Gould. var. *commutatum*. Variable panic grass, open ground, infrequent.

D. depauperatum (Muhl.) Gould. Starved panic grass, open woodlands, open ground, frequent.

D. dichotomum (L.) Gould subsp. *dichotomum*. Forking panic grass, open woodlands, open ground, often wet, infrequent.

D. latifolium (L.) Gould & C.A. Clark. Broad-leaved panic grass, open woodlands, frequent.

D. laxiflorum (Lam.) Gould. Loose-flowered panic grass, wet to mesic woodlands, infrequent.

D. oligosanthos (Schult.) Gould. Few-flowered panic grass.

subsp. *oligosanthos*. Few flowered panic grass, open woodlands, open ground, frequent.

subsp. *Scribnerianum* (Nash) Freckmann & Lelong. open woodlands, infrequent.

D. ravenelii (Scribn. & Merr.) Gould. Ravenel's panic grass, woodlands, rare.

D. sphaerocarpon (Elliott) Gould. Round-fruited panic grass, open woodlands, wasteground, frequent.

D. villosissimum (Nash) Freckmann, var. *villosissimum*. Long-haired panic grass, open woodlands, rare.

Digitaria filiformis (L.) Koeler. Slender crab grass, barrens, open woodlands, infrequent.

**D. ischaemum* (Schreb.) Schreb. Ex Muhl. Smooth crabgrass, wasteground, frequent.

**D. sanguinalis* (L.) Scop. Hairy crabgrass, wasteground, frequent.

**Echinochloa crus-galli* (L.) P. Beauv. Common barnyard grass, open wet ground, frequent.

E. muricata (P. Beauv.) Fernald. Rough barnyard grass.

var. *microstachya* Wiegand, wasteground, often wet, infrequent.

var. *muricata*, open wet ground, infrequent.

**Eleusine indica* (L.) Gaertn. Goose grass, wasteground, frequent.

Elymus hystrix L. (*Hystrix patula*), Bottlebrush grass, woodlands, edges, frequent.

E. villosus Muhl. Downy wild rye, woodlands, infrequent.

E. virginicus L. Virginia wild rye, woods, often alluvial, frequent.

**Eragrostis cilianensis* (All.) Vignolo ex Janch. Strong-scented love grass, open ground, frequent.

E. frankii C.A. Mey. ex Steud. Frank's love grass, open wet areas, rare.

E. hypnoides (Lam.) BSP. Teal love grass, shorelines, open sandy ground, infrequent.

E. pectinacea (Michx.) Nees. Tufted love grass, wasteground, infrequent.

E. spectabilis (Pursh) Steud. Purple love grass, old fields, open wasteground, frequent.

**Festuca arundinacea* Schreb. (*F. elaitor*), Tall fescue, wasteground, frequent.

**F. rubra* L. Red fescue, wasteground, infrequent.

F. subverticillata (Pers.) E.B. Alexeev. Nodding fescue, wasteground, frequent.

***Glyceria acutiflora* Torr.** Sharp-scaled manna grass, wet areas, rare.

G. striata (Lam.) Hitchc. Fowl manna grass, wet woodlands, stream borders, frequent.

***Gymnopogon ambiguous* (Michx.) BSP.** Bearded Skeleton grass, dry woodlands, barrens, rare.

**Holcus lanatus* L. Velvet grass, wasteground, infrequent.

Hordeum pusillum Nutt. Little barley), old fields, wasteground, frequent.

Leersia oryzoides (L.) Sw. Rice cut grass, open wet areas, frequent.

L. virginica Willd. Virginia cut grass, wet woodlands, rare.

Leptochloa panicea (Retz.) Ohwi. subsp. *brachiata* (Steud.) N. Snow. (*L. filiformis*), Red spangle top, old fields, stream borders, rare.

**Lolium perenne* L. var. *perenne*. Perennial rye grass, wasteground, infrequent.

Melica mutica Walter. Two-flowered melic grass, open woodlands, frequent.

**Microstegium viminium* (Trin.) A. Camus. Nepalese eulalia, disturbed mesic woodlands, frequent.

Muhlenbergia capillaris (Lam.) Trin. Hair grass, dry woodlands, infrequent.

M. frondosa (Poir.) Fernald. Nimblewill, open woodlands, wasteground, infrequent.

M. mexicana (L.) Trin. Wirestem muhly, open ground, rare.

M. schreberi J.F. Gmel. Nimblewill, wasteground, infrequent.

M. sobolifera (Muhl.) Trin. Rock Muhly, woodlands, rare.

M. tenuifolia (Willd.) BSP. var. *tenuifolia*. Slender muhly, woodlands, infrequent.

Panicum anceps Michx. subsp. *anceps*. Beaked panic grass, wet to mesic open ground, frequent.

P. capillare L. subsp. *capillare*. Witch grass, wasteground, frequent.

P. dichotomiflorum Michx. subsp. *dichotomiflorum*. Fall panicum, wasteground, old fields, frequent.

P. flexile (Gatt.) Scribn. Wiry witch grass, limestone glades and other rocky, open areas, infrequent.

P. philadelphicum Bernh. ex Trin. subsp. *gattingeri* (Nash) Freckmann. (*P. gattingeri*), Philadelphia witch grass, wasteground, infrequent.

P. rigidulum Bosc. ex Nees. Redtop panicum, wet, open ground.

subsp. *elongatum* (Scribn.) Lelong, (*P. stipitatum*), infrequent.

subsp. *Rigidulum*, infrequent.

P. verrucosum Muhl. Warty panic grass, wet, open ground, rare.

P. virgatum L. Switch grass, open ground, often wet, frequent.

**Paspalum dilatatum* Poir. Dallas grass, wasteground, borders, infrequent.

P. fluitans (Elliott) Kunth. Hoersetail paspalum, shorelines, rare.

P. laeve Michx. Beadgrass, wasteground, frequent.

P. pubiflorum Rupr. Hairy seed paspalum, wasteground, infrequent.

P. setaceum Michx. var. *setaceum*. Sand paspalum, dry, open areas, rare.

**Pennisetum glaucum* (L.) R. Br. Pearl millet, occasionally escaped, rare.

**Phleum pratense* L. Timothy, wasteground, frequent.

**Poa annua* L. Annual blue grass, wasteground, frequent.

P. autumnalis Muhl. ex Elliott. Autumn blue grass, woodlands, infrequent.

P. chapmanniana Scribn. Chapman blue grass, fields, wasteground, rare.

**P. compressa* L. Canada blue grass, wasteground, infrequent.

P. cuspidata Nutt. Early blue grass, woodlands, infrequent.

**P. pratensis* L. Kentucky blue grass, wasteground, frequent.

P. sylvestris A. Gray. Woodland blue grass, woodlands, frequent.

Saccharum alopecuroides (L.) Nutt. (*Erianthus alopecuroides*), Silver plume grass, open ground, infrequent.

Schizachyrium scoparium (Michx.) Nash. Little bluestem, old fields, barrens, infrequent.

**Secale cereale* L. Rye, occasionally escaped, wasteground, rare.

**Setaria faberi* R.A.W. Herrm. Nodding foxtail, old fields, wasteground, frequent.

**S. parviflora* (Poir.) Kerguelen. (*S. geniculata*), Knotroot foxtail, wasteground, frequent.

**S. pumila* (Poir.) Roem. & Schult. (*S. glauca*), Yellow foxtail, wasteground, frequent.

**Sorgham halepense* (L.) Pers. Johnson grass, wasteground, frequent.

Sorghastrum nutans (L.) Nash. Indian grass, barrens, open ground, infrequent.

Sphenopholis nitida (Biehler) Scribn. Shiny wedge grass, woodlands, infrequent.

S. obtusata (Michx.) Scribn. var. *obtusata*, (*S. intermedia*), Prairie wedge grass, open ground, barrens, infrequent.

***Sporobolus clandestinus* (Biehler) Hitchc.** Rough dropseed, sandy, open areas, rare.

S. compositus (Poir.) Merr. var. *drummondii* (Trin.) Kartesz & Gandhi. (*S. asper*), Tall dropseed, wasteground, infrequent.

S. neglectus Nash. Poverty grass, wasteground, infrequent.

S. vaginiflorus (Torr. ex A. Gray) Alph. Wood. Poverty dropseed, wasteground, infrequent.

Tridens flavus (L.) Hitchc. Purpletop, old fields, barrens, frequent.

Vulpia octoflora (Walter) Rydb. var. *octoflora*. Common six-weeks grass, open sandy areas, rare.

POTAMOGETONACEAE

Potamogeton diversifolius Snailseed pondweed, open waters, infrequent.

***P. pulcher* Tuck.** Heartleaf potamogeton, ponds, pools, slow-moving streams, infrequent.

SMILACACEAE

Smilax bona-nox L. Greenbrier, woodlands, thickets, frequent.

S. ecirrhata (Engelm. ex Kunth) S. Watson. Carrion-flower.

var. *ecirrhata*, mesic woodlands, rare.

var. *hugeri* (Small) H.E. Ahles, mesic woodlands, rare.

S. glauca Walter. Glaucous greenbrier, woodlands, thickets, frequent.

S. herbacea L. var. *herbacea*. Carrion-flower, woodlands, thickets, rare.

S. hispida Raf. Bristly greenbrier, woodlands, rare.

S. rotundifolia L. Greenbrier, woodlands and thickets, infrequent.

TRILLIACEAE

Trillium flexipes Raf. Bent trillium, mesic woodlands, rare.

T. recurvatum L. C. Beck. Recurved trillium, mesic woodlands, infrequent.

T. sessile L. Toadshade, woodlands, frequent.

TYPHACEAE

Sparganium androcladum (Engelm.) Morong. Branched bur-weed, open wet areas, rare.

Typha angustifolia L. Narrow-leaved cat-tail, wet areas, frequent.

T. latifolia Common cat-tail, wet areas, ponds, frequent.

UVULARIACEAE

Uvularia grandiflora Sm. Large-flowered bellwort, woodlands, infrequent.

U. perfoliata L. Perfoliate bellwort, mesic woodlands, infrequent.

U. sessilifolia L. Sessile-leaved bellwort, mesic woodlands, infrequent.

SPECIES REPORTED IN ERROR

The following list represents those species that are not, or should not be in the park based on Jones' manual and/or this author's professional opinion. Undoubtedly, some may have been verified and vouchered but such verification is currently unknown to me. Otherwise, verification and vouchering should be required before being added to the official list.

These species may be found in one of several floristic lists for the park. Based on Jones' flora, most of these have not been officially reported to Kentucky or have only been reported from the Appalachian Plateau (AP) or the Mississippi Embayment (ME). The list will be in alphabetical order by genus with a brief reasoning for not including on the park's official list.

Amelanchier Canadensis - AP only
Bartonia virginica – ME/AP only
Betula lenta - AP only
Calycanthus floridus var. *glaucus* – AP only
Campanula divaricata – AP only
Cardamine rotundifolia – Chiefly AP
Carex albicans var. *australis* (*C. physorhynca*) - Not in KY flora
C. comosa – Not in flora
Carya illinoensis - Unlikely, perhaps planted
Centaurium pulchellum – Not in KY
Cirsium virginianaum - not in KY
Cornus foemina – ME only
Crataegus marshallii – ME if at all
Cystopteris fragilis - Not in KY
Danthonia compressa – AP only
Desmodium canadense - not in flora
Dichantherium sphaerocarpon var. *isophyllum* - Not in KY
Diploaxis tenuifolia (*Sisymbrium tenuifolium*) – Not in KY
Eupatorium album var. *glomuosum* – Not in KY
Eupatorium dubium - Not in KY
Fragaria virginiana subsp. *grayana* – Not in KY
Fraxinus nigra - No verified reports in KY
Gallium asprellum - Not in KY
Hedyotis purpurea var. *calycosa* - Not recognized & not in KY
Heterotheca marianum – Not in KY
Hieracium auranticum - Not in KY
Hieracium pilosella - To be expected but not in KY
Hieracium greeneii - Not in KY

Iris verna – AP only
Krigia caespitosa - Western KY and western IP
K. occidentalis – Not in KY
Lepidium ruderae - Not in flora
Lesquerella globosa - Unable to locate voucher at ISU, must verify
Leucothoe recurva – AP only
Liatris scabra - Not in KY
Liatris scariosa - Not in flora, likely N. KY if at all
Ligustrum canadense – Not in KY
Lithospermum officinale – Not in KY
Lolium pretense – Not in KY
Meehanian cordata – Chiefly AP
Myosotis arvensis – May be part of the flora as a variety of *M. scorpioides*
Narcissus poeticus – Old home sites, unlikely escaping
N. pseudonarcissus – Old home sites, unlikely escaping
Oenothera rhombipetala - Not in KY
Oxalis dillenii - Assumed *O. stricta* until verification
Packera. smallii - Not in KY
P. viscosus - Not in KY
Phlox glaberrima subsp. *triflora* – Not in KY
Planera aquatica - Unlikely, ME only
Polygonum douglassii Not in flora, probably *P. tenue*
Prenanthes racemosa Not in KY
P. trifoliata - Not in KY but in TN border county
Pycnanthemum flexuosum - Not in flora
Quercus nigra - Maybe planted, if at all
Rosa virginiana – AP only
Rudbeckia fulgida var. *spathulata* – Not in KY
Sanicula marilandica – AP only
Scleria ciliata – Unlikely based on known KY distribution
Smilax taminioides – Not in KY
Solidago gattingeri - Not in KY
S. puberula - Chiefly AP
Symphiotrichum patens var. *patentissimum* – Not in KY
Taraxacum laevigatum – Not in KY but to be expected
Thaspium pinnatifidum - AP only
Trachelospermum difforme – AP/ME only
Vaccinium arboreum - AP/ME only
V. corymbosum – AP/ME only
V. uliginosum - Not in KY flora
Viola pedatifida – Not in KY
V. rotundifolia – AP only
Waldstenia parviflora (*W. fragarioides* var. *parviflora*) - Not in flora