ABSTRACT

Manassas National Battlefield Park (MNBP) is a 1,179 ha National Park Service Unit located 42 km west of Washington, DC. A total of 706 plant species and subspecific taxa are reported from the park for the 1993-2000 period. These include 53 new Prince William County, Virginia, records and six state-rare taxa. Ten habitat types are described for MNBP, and the habitats where each taxon was observed are listed.

Key words: flora, Manassas National Battlefield Park, Prince William County.

INTRODUCTION

Manassas National Battlefield Park (MNBP) is a National Historical Park of 1,779 ha located on the site of two important Civil War conflicts. It has a long history of agricultural use that is reflected in the current vegetation cover. Presently, 839 ha are covered by forests that vary in character from early successional Pinus virginiana (Virginia pine) stands to relatively mature oak-hickory and bottomland hardwood forests. The remaining 940 ha, excluding roadways and buildings, are occupied by fields and disturbed areas covered by herbaceous and shrubland vegetation.

This flora is a product of work done by the Virginia Department of Conservation and Recreation’s Division of Natural Heritage (DCR-DNH) at MNBP from 1993 to 2000. In 1993, the National Park Service (NPS) contracted DCR-DNH to conduct a rare species survey of two recently acquired properties (Stuarts Hill and Brawner Farm) at the western end of the Park (Fleming, 1993). In 1997, DCR-DNH conducted a similar inventory for rare species and significant natural communities within MNBP lands along a 0.4 km corridor adjacent to Bull Run and at all habitats underlain by diabase and metasiltstone within the Park (Belden et al., 1998). In 2000, the NPS contracted DCR-DNH to produce a vascular plant species list for the entire Park (Belden 

Concurrently, DCR-DNH ecologist Gary Fleming collected plot data from various vegetation types in the Park as part of an ongoing effort to classify natural communities throughout Virginia. During the period 2001-2003, DCR-DNH was contracted to map the Park’s forested ecological communities (Fleming & Weber, 2003). These projects afforded the authors the opportunity to collect and/or record taxa observed within MNBP over an extended period.

STUDY AREA

MNBP is located in the Piedmont physiographic province (Fennemann, 1938), approximately 4 km northwest of Manassas City, Virginia, and 42 km west of Washington, DC. Most of the Park is in eastern Prince William County, Virginia, with a very small portion extending into Fairfax County. The study area is situated in the Culpeper Basin, a large Mesozoic trough that stretches across the central Piedmont from Culpeper County north through Fauquier, Prince William, and Loudoun counties into Maryland (Lee, 1979). The Culpeper Basin is a distinctive regional landscape with relatively low relief and gently rolling to nearly level topography. The study area is very representative of the region, with broad, low ridges, extensive upland “flats,” and shallow, sluggish drainageways.
Streams within MNBP are part of the Occoquan River watershed. Bull Run, one of the largest secondary streams of the region, borders much of the eastern edge of the Park. The watershed of Youngs Branch, a major Bull Run tributary, drains most of the study area. Well-developed floodplain landforms, including depositional bars, levees, and backswamps, occur only along Bull Run. Floodplains along Youngs Branch and several of its larger tributaries are much smaller and lack the microtopographic diversity of large-stream and river floodplains. Headwater drainages throughout the study area are characterized by very small, sometimes braided channels with little alluvial deposition, and are flanked by flats with ephemeral or seasonal flooding controlled by fluctuating groundwater. Similar but isolated, groundwater-influenced depressions are also scattered through the Park.

MNBP is underlain by sedimentary, meta-sedimentary, and igneous rocks of Triassic and Jurassic age. Siltstone of the Ball’s Bluff Formation is the most extensive bedrock type in the area. This material is a red to purplish-brown, iron-rich, micaceous siltstone with thin to medium bedding that tends to produce platy to slab-like fragments when weathered. Calcium is abundant in concretions, veins, and cement. Minor interbeds of red silty shale and arkosic sandstone are also present. This formation constitutes the parent material of almost all soils in the eastern half of the study area (Lee, 1977; Leavy et al., 1983).

The western half of the Park contains substantial areas underlain by intrusive diabase, which occurs in irregular dikes, stocks, and sills. This diabase is a dense, medium-grained, dark-gray to black, mafic igneous rock composed primarily of feldspar and pyroxene (Lee, 1979). This bedrock is well expressed in a narrow dike that originates near Wellington to the south of MNBP and extends northward through the Park, passing west of Groveton and ending just southeast of Sudley. Other diabase intrusions are located in the vicinity of Stuarts Hill, south of Battery Heights, and on the ridge east of Brawner Farm (Leavy et al., 1983). Elder (1989) indicates that soils derived from diabase are also located in the vicinity of Bald Hill. Thick, residual soils cover most diabase intrusions but often contain spheroidally weathered boulders at the surface.

Thermally metamorphosed sedimentary rocks surround the diabase intrusive bodies (Lee, 1979). Bands of these rocks are generally less than 0.5 km wide within the Park and often much narrower. They are composed of red-brown siltstone and shale hornfels that have been altered under intense heat and pressure. Metamorphic minerals such as epidote, cordierite, pyroxene, and garnet are common along joints or fractures (Leavy et al., 1983).

The two major geologic units of MNBP (siltstone and diabase) greatly influence soil development, texture, and chemistry. In general, soils weathered from diabase are loamy, rich in clay minerals, and tend to have well developed subsoil hardpans that limit permeability. They also have significantly higher pH, calcium, magnesium, and manganese concentrations, along with significantly lower iron concentrations, than soils weathered from siltstone. Although a few of the latter have moderately clayey subsoils, most have silty upper horizons and loamy subsoils with good drainage. Most (but not all) residual upland soils weathered from siltstone are strongly to extremely acidic, with relatively low base cation concentrations (except of iron). However, below the limit of surface leaching, calcareous soil material may be abundant and is frequently exposed on steep slopes and bluffs undercut by streams.

Elder (1989) indicates that approximately 79% of the soils in the Park are derived from siltstone or metasiltstone, with the remainder weathered from diabase (19%) or alluvium (2%). The most common soil types in the study area, covering more than 40% of the Park, belong to the Arcola and Nestoria series. Often occurring in mosaics that are too difficult to map as individual units, these soils are moderately deep to shallow, well-drained silt loams with gravelly silt loam subsoils.

The natural vegetation of the study area was broadly described by Braun (1950) as belonging to the Piedmont Section of the Oak-Chestnut Forest Region. Centered in the Appalachian Mountains, this vegetation unit was formerly characterized by various mixtures of *Quercus* spp. (oaks) and *Castanea dentata* (American chestnut), with small inclusions of *Pinus* spp. (pines) on xeric ridges and mixed mesophytic forest in coves, ravines, and stream bottoms. Following the removal of American chestnut as an overstory tree by an introduced fungal blight (*Cryphonectria parasitica*) during the early decades of the 20th century, this region is now broadly characterized as mixed oak forest (Stephenson et al., 1993) or oak-hickory-pine forest (Küchler, 1985).

It is worth noting that because of its low relief and distinctive soils, the original vegetation of the Culpeper Basin was probably dissimilar to most other parts of the Oak-Chestnut Forest Region. There is little evidence that chestnut was important in the Basin, and the general vegetation of the area may have been closer to Braun’s (1950) more western Oak-Hickory Forest Region. In addition, the relatively flat, poorly drained soils of the Basin have always supported unique communities with an abundance of *Quercus palustris*.
and other species that are decidedly less common in other physiographic subregions of the Piedmont. Braun (1950), in fact, notes that moist flats on the “Piedmont Lowland” of Virginia are “quite different, with pin oak, red maple, willow oak, swamp white oak, and sweet gum.”

Many of the rare plant species found at MNBP have affinities with prairie vegetation west of the Appalachians. Accounts of early explorers and settlers indicate that the Culpeper Basin originally had extensive natural savannas and grasslands, which might explain the presence of these disjunct or peripheral species (Allard & Leonard, 1962; Brown, 2000). These prairie-like habitats probably remained open over the long term because of frequent fires, both natural and deliberately set by Native Americans, that traveled unobstructed across the gentle terrain of the Basin (Maxwell, 1910; Van Lear & Waldrop, 1989). Plastic hardpan soils, weathered from diabase and locally known as “Jackland” because of the abundance of Quercus marilandica (blackjack oak) on them, were probably the most favorable for development of these grassland openings.

The study area and most other parts of the Culpeper Basin have been settled for almost three centuries. In the post-settlement era, the original grasslands were destroyed by extensive clearing and agriculture, widespread fire suppression, and repeated cutting, which has resulted in dense secondary forests. Old fields undergoing secondary succession in this area are generally characterized by stands of Pinus virginiana (Virginia Pine), Juniperus virginiana (eastern red cedar), Cornus florida (flowering dogwood), and fast-growing hardwoods such as Fraxinus americana (white ash) and Liriodendron tulipifera (tulip-poplar).

The mosaic of agricultural fields and secondary forests at MNBP has shifted considerably since the Civil War. A number of sites that were cleared at the time of the Civil War battles are now reforested, and other historically forested sites have since been cleared (National Park Service, unpublished data). Other areas, including parts of Stuarts Hill, Bald Hill, the ridges east of Brawner Farm and south of Battery Heights, and the ridge north of Groveton, have been continuously forested (although cut) since the time of the Civil War. In recent years, large portions of the Culpeper Basin in Fairfax, Loudoun, Prince William, and Fauquier counties have been subjected to intense development pressure as growth of the Washington, DC, area has expanded westward. As a result, many of the region’s finest natural areas have been destroyed or threatened. Increasingly, MNBP is becoming a natural area oasis as development spreads from nearby Manassas.

METHODS

This flora was developed through informal plant collecting at MNBP in 1993 and 1997 and from systematic collecting and observations during the 2000 field season. In 1993 and 1997, plants were collected on an informal basis in conjunction with rare species surveys at the Park. The focus of these collections was on rare and unusual taxa and on taxa not previously documented for Prince William County as determined by Harvill et al. (1992).

In 2000, DCR-DNH was contracted to develop a flora for the Park. To initiate this project, field notes and specimen records were reviewed from DCR-DNH fieldwork at MNBP prior to 2000. From these records, a preliminary species list was developed. Fieldwork for this project was conducted by the authors between 17 April and 7 September 2000. Monthly visits were made to MNBP to ensure that species visible at different times during the growing season would be recorded. Areas visited were chosen to represent a wide variety of habitat types and geographic locations.

The flora was inventoried using two methods: (1) walking across environmental gradients and thoroughly exploring discrete, productive habitats; and (2) intensive sampling of 28 vegetation plots. In addition to aiding in the characterization of habitats, plot sampling requires a full inventory of flora within the plot area and therefore often captures taxa that may be overlooked during walking surveys. Plots were sampled using the relevé method (Peet et al., 1998), with 400 m² plots established in forest vegetation and 100 m² plots in grasslands. Within each plot, all vascular plants were recorded, and the total cover of each taxon was estimated as a vertical projection onto the plot area. In addition, the cover of woody species was estimated in six vertical height strata, and the diameters of all woody stems ≥2.5 cm in diameter at breast height were measured. A standard set of environmental data, including slope, slope shape, aspect, surface substrate cover, topographic position, drainage class, and soil moisture regime, were measured or estimated. In addition, a small soil sample was collected from the A horizon of each plot and analyzed for pH, phosphorus, exchangeable cations, and extractable micronutrients by Brookside Laboratories, New Knoxville, Ohio. A preliminary cluster analysis of the compositional data provided a basis for identifying the principal habitat types used in this study.

Species that could not be readily identified in the field were collected and identified later using standard floras for the area, including Fernald (1950), Radford et al. (1968), and Gleason & Cronquist (1991). A draft flora in progress (Weakley, 2000) was consulted for
more recent treatments. Plant specimens that represented new county records and other noteworthy specimens were pressed, labeled and deposited in the DCR-DNH plant reference collection or at one of the following herbaria: Virginia Polytechnic Institute and State University (VPI), George Mason University (GMUF), and The College of William and Mary (WILLI). T. F. Wieboldt (VPI) assisted in identifying several specimens.

Habitat data were collected in the field and compiled for each taxon collected or observed. Ten habitat types were designated for MNBP and the habitats where each taxon was observed were recorded. Habitat types are defined as follows:

1. **Upland Acidic Forest.** This habitat type includes relatively mature forests on very strongly to extremely acidic, infertile soils weathered from siltstone. It covers about 6% of the Park, mostly on low ridges and rolling to flat uplands. The dry forest vegetation is typically dominated by *Quercus alba* (white oak), with other *Quercus* spp. (oaks) and *Carya* spp. (hickories) as frequent overstory associates. *Acer rubrum* (red maple), *Nyssa sylvatica* (black gum), *Cornus florida* (flowering dogwood), and *Sassafras albidum* (sassafras) are common understory species, while the low ericaceous shrubs *Vaccinium pallidum* (early lowbush blueberry), *V. stamineum* (deerberry), and *Gaylussacia baccata* (black huckleberry) are patch-dominants of the shrub layer. A small area of the habitat type is dominated by a mixed forest of *Quercus* spp., *Pinus strobus* (eastern white pine), *Tsuga canadensis* (eastern hemlock), and ericaceous shrubs. Herbaceous diversity is relatively low in this habitat.

2. **Upland Basic Forest.** This habitat type includes relatively mature forests on more fertile soils weathered from diabase or calcareous phases of siltstone. It covers about 13% of the Park on low ridges, rolling or flat uplands, and steep bluffs along Bull Run. Vegetation is primarily a dry-mesic oak-hickory forest dominated by *Quercus alba*, *Q. rubra* (red oak), *Carya glabra* (pignut hickory), *C. ovalis* (red hickory), and *Fraxinus americana* (white ash). *Carya alba* (mackernut hickory), *Juglans nigra* (black walnut), and *Quercus velutina* (black oak) are frequent overstory associates. Dominant or characteristic understory species include *Cercis canadensis* (eastern redbud), *Ulmus rubra* (slippery elm), *Chionanthus virginicus* (fringetree), *Ostrya virginiana* (eastern hop-hornbeam), and *Juniperus virginiana* (eastern redcedar). The herb layer is open but very diverse and characterized by patch-dominance of the forest grasses *Dichanthelium boscii* (Bosc’s panic grass), *Elymus hystrix* var. *hystrix* (bottlebrush grass), and *Muhlenbergia sobolifera* (cliff muhly). A small area of this habitat type occupies a steep, east-facing bluff along Bull Run and contains more mesophytic vegetation dominated by *Carya cordiformis* (bitternut hickory), *Quercus muehlenbergii* (chinkapin oak), *Fraxinus americana*, *Asimina triloba* (pawpaw), and *Staphylea trifolia* (bladdernut).

3. **Swamp Forest.** This unit covers < 1% of the Park and is restricted to seasonally flooded backswamps along Bull Run. Vegetation is a hydrophytic forest dominated by *Quercus palustris* (pin oak), *Quercus bicolor* (swamp white oak), and *Fraxinus pennsylvanica* (green ash). The habitat has a pronounced hummock-and-hollow microtopography, with water-tolerant herbs such as *Saururus cernuus* (lizard’s tail) and *Boehmeria cylindrica* (false nettle) dominant in the seasonally flooded sloughs and hollows. A large variety of *Carex* spp. (sedges) occupies the slightly better drained hummocks.

4. **Alluvial Forest.** Forested alluvial floodplains cover about 5% of the Park, primarily along Bull Run, Youngs Branch, and a few of their largest tributaries. These forests are well developed on the high, fertile, sandy levees along Bull Run. *Acer negundo* (boxelder), *Platanus occidentalis* (sycamore), *Carya cordiformis*, *Celtis occidentalis* (sugarberry), and *Ulmus americana* (American elm) are typical trees of stands that have not been disturbed recently. The understory is dominated by *Asimina triloba* and *Lindera benzoin* (spicebush). The herb layer is lush with nutrient-demanding species such as *Mertensia virginica* (Virginia bluebells), *Asarum canadense* (wild ginger), *Floerkea proserpinacoides* (false mermaid-weed), and *Laportea canadensis* (wood nettle). Along Youngs Branch and other smaller streams, floodplains are smaller and more disturbed, supporting less diverse vegetation.

5. **Upland Depression Swamp.** This habitat type occupies <1% of the Park in isolated upland depressions and elongate areas along sluggish headwater drainages. Sites are shallowly flooded by perched groundwater during winter and spring months. Woody vegetation is similar to that of the Swamp Forest habitat type, with *Quercus palustris* and *Q. bicolor* prevalent. The lower woody layers are dominated by *Viburnum prunifolium* (smooth black-haw) and climbing or scrambling vines of *Toxicodendron radicans* (poison ivy), *Parthenocissus quinquefolia* (Virginia creeper), and *Smilax rotundifolia* (common greenbrier). The herbaceous flora is typically rather sparse and characterized by species tolerant of seasonal inundation and extended draw-down periods.
during which soils may become quite dry.

6. Successional Scrub and Forest. Extensive areas of the Park are covered with early-successional forests. The most common of these, covering more than 19% of the Park, is a vegetation type dominated by Pinus virginiana (Virginia pine) and/or Juniperus virginiana that colonized fields abandoned during the past 70 years. Additional areas of this habitat type support young, weedy, basic forests dominated by Fraxinus americana and Pinus virginiana. A number of floodplains were once cleared and now support nearly monospecific stands of Acer negundo or Platanus occidentalis. The herbaceous flora of early-successional scrub and forest habitats varies widely with site conditions and land-use history, but generally contains large populations of invasive exotic weeds.

7. Upland Grassland. Periodically mowed fields occupy substantial areas of the Park. An irregular, long-term mowing regime has resulted in herbaceous vegetation dominated by the warm-season perennial grasses Sorghastrum nutans (Indian grass) and Schizachyrium scoparium (little bluestem). Characteristic forb associates in these prairie-like habitats include Pycnanthemum tenuifolium (narrow-leaved mountainmint), Solidago juncea (early goldenrod), S. nemoralis (gray goldenrod), Liatris squarrosa (scaly blazing-star), Lespedeza capitata (round-head bushclover), L. virginica (slender bushclover), and Desmodium spp. (tick-trefoils).

8. Open Wetlands. This category includes an eclectic group of small-patch habitats, including several “marshes” resulting from drainages impounded by roads, artificial ponds and pond shores, stream-bottom swales in fields and powerlines, and irregularly exposed bars and shores along Bull Run. Although very limited in extent, these habitats contain a number of hydrophytic species that were not recorded elsewhere in the Park.

9. Open Ruderal Habitats. This unit includes weedy fields dominated by cool-season grasses, roadsides, lawns, parking lot cracks, and recently bulldozed areas. Vegetation of these areas is generally dominated by exotics and weedy natives.

10. Rock Outcrops. Outcrops are represented in the study area by siltstone cliffs and ledges along Bull Run and by a few small, metasiltstone “flatrocks” in fields. Siltstone outcrops are generally shaded and calcareous, with crevices and ledges supporting base-loving lithophytes such as Hydrangea arborescens (wild hydrangea), Asplenium trichomanes (maidenhair spleenwort), Asplenium rhizophyllum (walking fern), Aquilegia canadensis (wild columbine), and Arabis lyrata (lyre-leaf rockcress). Flatrocks generally support a sparse vegetation of xerophytic annuals such as Diodia teres (buttonweed), Krigia virginica (dwarf dandelion), and Isanthus brachiatus (false pennyroyal).

RESULTS

A total of 706 plant species and subspecific taxa was recorded for MNBP. These are listed in Table 1 and include 16 pteridophytes, 4 gymnosperms, 501 dicot angiosperms, and 185 monocot angiosperms. The taxa are contained within 111 plant families and 362 genera. Three families, the Asteraeae (90 taxa), the Poaceae (81 taxa), and the Cyperaceae (60 taxa) comprise 32.7 percent of the flora. Carex is by far the largest genus with 47 taxa. The 128 non-native taxa represent 18.1 percent of the flora. Fifty-three new Prince William County records were collected.

Six taxa documented for MNBP are considered rare in Virginia by DCR-DNH (Townsend, 2002). These are Asclepias purpurascens (purple milkweed), Buchnera americana (blue-hearts), Isoetes appalachiana (Appalachian quillwort), Penstemon hirsutus (hairy beardtongue), Stachys pilosa var. arenicola (marsh hedgenettle), and Trifolium reflexum (buffalo clover). None of these taxa is considered rare on a global basis. In addition, seven taxa considered by DCR-DNH to be uncommon in Virginia were recorded: Carex bushii (Bush’s sedge), Carex meadii (Mead’s sedge), Erigenia bulbosa (harbinger-of-spring), Floerkea proserpinacoides (false mermaid-weed), Iris versicolor (blueflag), Juglans cinerea (butternut), and Zanthoxylum americanum (northern prickly-ash).

ACKNOWLEDGMENTS

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LITERATURE CITED


**Table I. Flora of Manassas National Battlefield Park.** The list is arranged by major plant groups: Pteridophyta (ferns and fern allies), Gymnospermae (non-flowering seed plants), and Angiospermae (flowering plants). The Angiospermae are further divided into the Dicotyledoneae and the Monocotyledoneae. Within each major group, families, genera, species, and subtaxa are arranged alphabetically. Scientific nomenclature follows Kartesz (1999) with the exception of *Setaria pumila* (Poir.) Roemer & J.A. Schultes ssp. *pumila*, where it appears that the Kartesz name, *Pennisetum glaucum* (L.) R. Br., is in error (A. Weakley, pers. comm.). Synonyms, shown following an equal sign (=), are provided for some taxa where Kartesz (1999) departs sharply from other familiar sources. Non-native taxa, as determined from a consensus of the standard regional floras, are preceded by an asterisk (*). Common names follow Kartesz (1999) or other standard floras. The habitat(s) where each taxon was observed are shown in a coded format as follows: 1 = Upland Acidic Forest, 2 = Upland Basic Forest, 3 = Swamp Forest, 4 = Alluvial Forest, 5 = Upland Depression Swamp, 6 = Successional Scrub and Forest, 7 = Upland Grassland, 8 = Open Wetlands, 9 = Open Ruderal Habitats, 10 = Rock Outcrops. The last column indicates those species for which a voucher specimen was collected (V) and which of those vouchers were Prince William County records (C).

<table>
<thead>
<tr>
<th>GROUP/FAMILY</th>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>HABITATS</th>
<th>COUNTY RECORD</th>
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<td>PTERIDOPHYTA</td>
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<td>ASPENIACEAE</td>
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<td>bracken fern</td>
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<td><em>Isoetes appalachiana</em> D.F. Brunton &amp; D.M. Britton = <em>Isoetes engelmannii</em> A. Braun var. <em>georgiana</em> Engelm.</td>
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<td>V,C</td>
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<td>Pinus virginiana P. Mill.</td>
<td>Virginia pine</td>
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<td>Tsuga canadensis (L.) Carr.</td>
<td>eastern hemlock</td>
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<td>ANGIOSPERMAE: DICOTYLEDONEAE</td>
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<td>ACANTHACEAE</td>
<td>Justicia americana (L.) Vahl</td>
<td>common water-willow</td>
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<td>Ruellia caroliniensis (J.F. Gmel.) Steud.</td>
<td>Carolina wild-petunia</td>
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<td>ACERACEAE</td>
<td>Acer negundo L.</td>
<td>boxelder</td>
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<td>*Acer platanoides L.</td>
<td>Norway maple</td>
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<td>Acer rubrum L.</td>
<td>red maple</td>
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<td>Acer saccharinum L.</td>
<td>silver maple</td>
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<td>ANACARDIACEAE</td>
<td>Rhus aromatica Ait.</td>
<td>fragrant sumac</td>
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<td>Rhus copallinum L.</td>
<td>winged sumac</td>
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<td>Rhus glabra L.</td>
<td>smooth sumac</td>
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<td>Rhus typhina L.</td>
<td>staghorn sumac</td>
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<td>Toxicodendron radicans (L.) Kuntze</td>
<td>poison ivy</td>
<td>1,2,3,4,5,6,8,10</td>
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<td>ANNONACEAE</td>
<td>Asimina triloba (L.) Dunal</td>
<td>pawpaw</td>
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<td>APIACEAE</td>
<td>Angelica venenosa (Greenway) Fern.</td>
<td>hairy angelica</td>
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<td>Chaerophyllum procumbens (L.) Crantz</td>
<td>spreading chervil</td>
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<td>Cicuta maculata L.</td>
<td>water-hemlock</td>
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<td>Cryptotaenia canadensis (L.) DC.</td>
<td>honewort</td>
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<td>*Daucus carota L.</td>
<td>Queen Anne’s lace</td>
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<td>Eriogena bulbosa (Michx.) Nutt.</td>
<td>harbinger-of-spring</td>
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<td>Osmonhiza longistylis (Torr.) DC.</td>
<td>aniseroot</td>
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<td>Sanicula canadensis L.</td>
<td>black snakeroot</td>
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<td>Sanicula odorata (Raf.) K.M. Pryer &amp; L.R. Phillippe = Sanicula gregaria Bickn.</td>
<td>clustered snakeroot</td>
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<td>Taenidia integerrima (L.) Drude</td>
<td>yellow pimpernel</td>
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<td>Thaspium barbinode (Michx.) Nutt.</td>
<td>hairy-jointed meadow-parsnip</td>
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<td>Zizia aptera (Gray) Fern.</td>
<td>heartleaf golden alexanders</td>
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<td>Zizia aurea (L.) W.D.J. Koch</td>
<td>golden alexanders</td>
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<td>APOCYNACEAE</td>
<td>Apocynum androsaemifolium L.</td>
<td>spreading dogbane</td>
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<td>Apocynum cannabinum L.</td>
<td>Indian hemp</td>
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<td>*Vinca major L.</td>
<td>greater periwinkle</td>
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<td>*Vinca minor L.</td>
<td>periwinkle</td>
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<td>Ilex opaca Ait.</td>
<td>American holly</td>
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<td>Ilex verticillata (L.) Gray</td>
<td>winterberry</td>
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<td>ARISTOLOCHIACEAE</td>
<td>Aristolochia serpentaria L.</td>
<td>Virginia snakeroot</td>
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<td>Asarum canadense L.</td>
<td>wild ginger</td>
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<td>ASCLEPIADACEAE</td>
<td>Asclepias incarnata L.</td>
<td>swamp milkweed</td>
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<td>Asclepias purpurascens L.</td>
<td>purple milkweed</td>
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<td>Asclepias quadrifolia Jacq.</td>
<td>four-leaf milkweed</td>
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<td>Asclepias syriaca L.</td>
<td>common milkweed</td>
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<td>Asclepias verticillata L.</td>
<td>whorled milkweed</td>
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<td>Asclepias viridiflora Raf.</td>
<td>green milkweed</td>
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<td>ASTERACEAE</td>
<td>Achillea millefolium L. var. millefolium</td>
<td>common yarrow</td>
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<td>Ageratina altissima (L.) King &amp; H.E. Robins.</td>
<td>white snakeroot</td>
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<td>= Eupatorium rugosum Houtt.</td>
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<td>Ambrosia artemisiifolia L.</td>
<td>common ragweed</td>
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<td>Ambrosia triflora L.</td>
<td>great milkweed</td>
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<td>Antennaria neglecta Greene</td>
<td>field pussytoes</td>
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<td>Antennaria parlinii Fern. ssp. fallax (Greene) Bayer &amp; Stebbins</td>
<td>Parlin’s pussytoes</td>
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<td>Antennaria parlinii Fern. ssp. parlinii</td>
<td>Parlin’s pussytoes</td>
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<td>Antennaria plantaginifolia (L.) Richards.</td>
<td>plantain-leaf pussytoes</td>
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<td>*Anthemis arvensis L.</td>
<td>corn camomile</td>
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<td>*Arctium minus Bernh.</td>
<td>lesser burdock</td>
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<td>*Artemisia annua L.</td>
<td>annual wormwood</td>
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<td>*Artemisia vulgaris L.</td>
<td>common wormwood</td>
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<td>Bidens aristosa (Michx.) Britt.</td>
<td>tickseed beggar-ticks</td>
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<td>= Bidens polylepis Blake</td>
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<td>Bidens frondosa L.</td>
<td>devil’s beggar-ticks</td>
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<td>Bidens tripartita L.</td>
<td>three-lobe beggar-ticks</td>
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<td>*Carduus nutans L.</td>
<td>musk thistle</td>
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<td>*Centauraea biebersteinii DC.</td>
<td>spotted knapweed</td>
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<td>= Centaurea maculosa auct. non Lam.</td>
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<td>*Chichorium intybus L.</td>
<td>chichory</td>
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<td>Cirsium discolor (Muhl. ex Willd.) Spreng.</td>
<td>field thistle</td>
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<td>Cirsium muticum Michx.</td>
<td>swamp thistle</td>
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<td>Cirsium pumilum (Nutt.) Spreng.</td>
<td>pasture thistle</td>
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<td>*Cirsium vulgare (Savi) Ten.</td>
<td>bull thistle</td>
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<td>Conoclinium coelestinum (L.) DC.</td>
<td>mistflower</td>
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<td>= Eupatorium coelestinum L.</td>
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<td>Conyza canadensis (L.) Cronq.</td>
<td>horseweed</td>
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<td>= Erigeron canadensis L.</td>
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<td>Coreopsis tripteris L.</td>
<td>tall tickseed</td>
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<td>Coreopsis verticillata L.</td>
<td>whorled coreopsis</td>
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<td>Doellingeria infirma (Michx.) Greene</td>
<td>cornel-leaf aster</td>
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<td>= Aster infirma Michx.</td>
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<td>= Eclipta prostrata (L.) L.</td>
<td>yerba-de-tajo</td>
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<td>= Eclipta alba (L.) Hassk.</td>
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<td>Elephantopus carolinianus Raeusch.</td>
<td>Carolina elephant’s-foot</td>
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<td>Erechites hieracifolium (L.) Raf. ex DC.</td>
<td>fireweed</td>
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<td>Erigeron annuus (L.) Pers.</td>
<td>annual fleabane</td>
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<td>Erigeron strigosus Muhl. ex Willd.</td>
<td>daisy fleabane</td>
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<td>Eupatorium fistulosum Barratt</td>
<td>hollow Joe-Pye-weed</td>
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<td>Eupatorium hyssopifolium L.</td>
<td>hyssop-leaved thoroughwort</td>
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<td>Eupatorium perfoliatum L.</td>
<td>common boneset</td>
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<td>Eupatorium serotinum Michx.</td>
<td>late thoroughwort</td>
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<td>Eurybia divaricata (L.) Nesom</td>
<td>white wood aster</td>
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<td>= Aster divaricatus L.</td>
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<td>Eurybia schreberi (Nees) Nees</td>
<td>Schreber’s aster</td>
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<td>= Aster schreberi Nees</td>
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<td>Euthamia graminifolia (L.) Greene</td>
<td>grass-leaved goldenrod</td>
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<td>= Solidago graminifolia (L.) Salisb.</td>
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<td>Gamochaeta purpurea (L.) Cabrera</td>
<td>purple cudweed</td>
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<td>= Gnaphalium purpureum L.</td>
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<td>Helianthus annuus L.</td>
<td>common sneezeweed</td>
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<td>Helianthus flexuosus Raf.</td>
<td>Southern sneezeweed</td>
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<td>Helianthus decapetalus L.</td>
<td>thin-leaved sunflower</td>
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<td>Helianthus divaricatus L.</td>
<td>woodland sunflower</td>
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<td>Heliopsis helianthoides (L.) Sweet</td>
<td>oxeye</td>
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<td>= Chrysanthemum leucanthemum L.</td>
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<td>Hieracium caespitosum Dumort.</td>
<td>meadow hawkweed</td>
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<td>Hilarium gonovi L.</td>
<td>hairy hawkweed</td>
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<td>Hieracium scabrum Michx.</td>
<td>rough hawkweed</td>
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<td>*Iva annua L.</td>
<td>annual sumpweed</td>
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<td>Krigia dandelion (L.) Nutt.</td>
<td>false dandelion</td>
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<td>Krigia virginica (L.) Willd.</td>
<td>dwarf dandelion</td>
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<td>Lactuca canadensis L.</td>
<td>wild lettuce</td>
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<td>Lactuca floridana (L.) Gaertn.</td>
<td>Florida blue lettuce</td>
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<td>*Leucanthemum vulgare Lam.</td>
<td>oxeye daisy</td>
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<td>= Chrysanthemum leucanthemum L.</td>
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<td>Liatris squarrosa (L.) Michx.</td>
<td>scaly blazing-star</td>
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<td>Micranthes scandens (L.) Willd.</td>
<td>climbing hempweed</td>
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<td>= Senecio anonymus Wood</td>
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<td></td>
<td>Packera anomyna (Wood) W.A. Weber &amp; A. Löve</td>
<td>Small’s ragwort</td>
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<td>= Senecio aureus Ls.</td>
<td>golden ragwort</td>
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<td>Packsara paupercula (Michx.) A.D. Löve</td>
<td>balsam ragwort</td>
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<td>= Senecio paupercula Michx.</td>
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<td>Prenanthes serpentaria Pursh</td>
<td>lion’s-foot</td>
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<td>= Gnaphalium obtusifolium L.</td>
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<td>Rudbeckia fulgida Ait.</td>
<td>orange coneflower</td>
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<td>Rudbeckia hirta L.</td>
<td>black-eyed Susan</td>
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<td>Rudbeckia laciniata L.</td>
<td>cutleaved coneflower</td>
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<td>Sericocarpus asteroides (L.) B.S.P.</td>
<td>toothed white-top aster</td>
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<td>= Aster paternus Cronq.</td>
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<td>Silphium trifoliatum L.</td>
<td>white goldenrod</td>
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<td>Solidago bicolor L.</td>
<td>bluestem goldenrod</td>
<td>1,2</td>
<td></td>
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<td></td>
<td>Solidago caesia L.</td>
<td>Canadian goldenrod</td>
<td>7,9</td>
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<tr>
<td></td>
<td>Solidago canadensis L.</td>
<td>early goldenrod</td>
<td>3,5,7</td>
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<td></td>
<td>Solidago juncal Ait.</td>
<td>gray goldenrod</td>
<td>7</td>
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<tr>
<td></td>
<td>Solidago nemoralis Ait.</td>
<td>elm-leaf goldenrod</td>
<td>2</td>
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<tr>
<td></td>
<td>Solidago ulmifolia (Muhl. ex Willd.</td>
<td>spiny-leaf sowthistle</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= Sonchus asper (L.) Hill</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>= Sonchus oleraceous Willd.</td>
<td>common sowthistle</td>
<td>9</td>
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<tr>
<td></td>
<td>Symphyotrichum cordifolium (L.) Nesom</td>
<td>heart-leaved aster</td>
<td>2</td>
<td>V,C</td>
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<tr>
<td></td>
<td>= Aster cordifolius L.</td>
<td></td>
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<td>Symphyotrichum damosus (L.) Nesom</td>
<td>bushy aster</td>
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<tr>
<td></td>
<td>= Aster damosus L.</td>
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<td></td>
<td>Symphyotrichum lanceolatum (Willd.) Nesom</td>
<td>panicked aster</td>
<td>4,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= Aster lanceolatus Willd.</td>
<td></td>
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<td></td>
<td>= Aster simplex Willd.</td>
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<tr>
<td></td>
<td>Symphyotrichum lateriflorum (L.) A.D. Löve</td>
<td>goblet aster</td>
<td>1,2,3,4,5,6</td>
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<tr>
<td></td>
<td>= Aster lateriflorus (L.) Britt.</td>
<td></td>
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<td></td>
<td>Symphyotrichum pilosum (Willd.) Nesom</td>
<td>white heath aster</td>
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<td></td>
<td>= Aster pilosus Willd.</td>
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<td></td>
<td>Symphyotrichum prenanthoides (Muhl. ex Willd. Nesom</td>
<td>crooked-stem aster</td>
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<tr>
<td></td>
<td>= Aster prenanthoides Muhl. ex Willd.</td>
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<td>Symphyotrichum undulatum (L.) Nesom</td>
<td>wavy-leaved aster</td>
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<td></td>
<td>= Aster undulatus L.</td>
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<td></td>
<td>*Taraxacum officinale G.H. Weber ex Wiggers</td>
<td>common dandelion</td>
<td>6,7,9</td>
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<tr>
<td></td>
<td>*Tragopogon dubius Scop.</td>
<td>meadow goat’s-beard</td>
<td>9</td>
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<td>GROUP/FAMILY</td>
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<td>COMMON NAME</td>
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<tr>
<td>ASTERACEAE (continued)</td>
<td>Verbesina alternifolia (L.) Britt. ex Kearney</td>
<td>wingstem</td>
<td>2,3,4</td>
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<tr>
<td></td>
<td>Verbesina occidentalis (L.) Walt.</td>
<td>yellow crownbeard</td>
<td>2,4</td>
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<td></td>
<td>Vernonia glauca (L.) Willd.</td>
<td>broad-leaf ironweed</td>
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<tr>
<td></td>
<td>Vernonia noveboracensis (L.) Michx.</td>
<td>New York ironweed</td>
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<td></td>
<td>Xanthium strumarium L.</td>
<td>cocklebur</td>
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<tr>
<td>BALSAMINACEAE</td>
<td>Impatiens capensis Meerb.</td>
<td>spotted jewelweed</td>
<td>2,3,4,5,8</td>
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<tr>
<td></td>
<td>Impatiens pallida Nutt.</td>
<td>pale jewelweed</td>
<td>4</td>
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<tr>
<td>BERBERIDACEAE</td>
<td>*Berberis thunbergii DC.</td>
<td>Japanese barberry</td>
<td>1,2,4,6</td>
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<tr>
<td></td>
<td>Cauniophyllum thalictroides (L.) Michx.</td>
<td>blue cohosh</td>
<td>2</td>
<td>V,C</td>
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<td></td>
<td>Podophyllum peltatum L.</td>
<td>may-apple</td>
<td>1,2,4</td>
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<td>BETULACEAE</td>
<td>Betula lenta L.</td>
<td>sweet birch</td>
<td>1</td>
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<tr>
<td></td>
<td>Betula nigra L.</td>
<td>river birch</td>
<td>4</td>
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<tr>
<td></td>
<td>Carpinus caroliniana Walt.</td>
<td>American hornbeam</td>
<td>1,2,3,4,5,6</td>
<td></td>
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<tr>
<td></td>
<td>Corylus americana Walt.</td>
<td>American hazelnut</td>
<td>1,2</td>
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<tr>
<td></td>
<td>Ostrya virginiana (P. Mill.) K. Koch</td>
<td>eastern hop-hornbeam</td>
<td>1,2,10</td>
<td></td>
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<tr>
<td>BORAGINACEAE</td>
<td>*Buglossoides arvensis (L.) I.M. Johnston</td>
<td>common borage</td>
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<tr>
<td></td>
<td>= Lithospermum arvense L.</td>
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<td></td>
<td>Cynoglossum virginianum L.</td>
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<td></td>
<td>*Echium vulgare L.</td>
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<td></td>
<td>Hackelia virginiana (L.) I.M. Johnston</td>
<td>Virginia stickseed</td>
<td>2</td>
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<tr>
<td></td>
<td>Lithospermum canescens (Michx.) Leh.</td>
<td>hoary puceoon</td>
<td>7</td>
<td>V,C</td>
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<tr>
<td></td>
<td>Mertensia virginica (L.) Pers. ex Link</td>
<td>Virginia bluebells</td>
<td>4</td>
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<tr>
<td></td>
<td>*Myosotis discolor Pers.</td>
<td>yellow-and-blue forget-me-not</td>
<td>8</td>
<td>V,C</td>
</tr>
<tr>
<td></td>
<td>Myosotis macrosperma Engelm.</td>
<td>large-seeded forget-me-not</td>
<td>2</td>
<td>V</td>
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<tr>
<td></td>
<td>Myosotis verna Nutt.</td>
<td>spring forget-me-not</td>
<td>7</td>
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<tr>
<td>BRASSICACEAE</td>
<td>*Allaria petiolata (Bieb.) Cavara &amp; Grande</td>
<td>garlic mustard</td>
<td>1,2,3,4</td>
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<tr>
<td></td>
<td>Arabis lyrata L.</td>
<td>lyre-leaf rockcress</td>
<td>10</td>
<td>V</td>
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<tr>
<td></td>
<td>*Barbarea verna (P. Mill.) Aschers.</td>
<td>early winter-cress</td>
<td>9</td>
<td></td>
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<tr>
<td></td>
<td>*Barbarea vulgaris Ait. f.</td>
<td>common winter-cress</td>
<td>7,9</td>
<td></td>
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<tr>
<td></td>
<td>*Capsella bursa-pastoris (L.) Medik.</td>
<td>common shepherd’s-purse</td>
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<tr>
<td></td>
<td>Cardamine concatenata (Michx.) Sw.</td>
<td>cutleaf toothwort</td>
<td>2,4</td>
<td></td>
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<tr>
<td></td>
<td>= Dentaria laciniata Mulh. ex Willd.</td>
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<td></td>
<td>*Cardamine hirsuta L.</td>
<td>hairy bittercress</td>
<td>4,9,10</td>
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<tr>
<td></td>
<td>Cardamine pensylvanica Muhl. ex Willd.</td>
<td>Pennsylvania bittercress</td>
<td>3,5</td>
<td></td>
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<tr>
<td></td>
<td>*Lepidium campestre (L.) Ait. f.</td>
<td>field pepper-grass</td>
<td>9</td>
<td></td>
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<tr>
<td></td>
<td>Lepidium virginicum L.</td>
<td>poor man’s pepper-grass</td>
<td>9</td>
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<tr>
<td></td>
<td>*Microthlaspi perfoliatum (L.) F.K. Mey.</td>
<td>perfoliate penncress</td>
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<tr>
<td></td>
<td>= Thlaspi perfoliatum L.</td>
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<tr>
<td></td>
<td>*Rorippa sylvestris (L.) Bess.</td>
<td>creeping yellow-cress</td>
<td>4,8</td>
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<tr>
<td>CALLITRICHACEAE</td>
<td>Callitriche heterophylly Pursh</td>
<td>northern water-starwort</td>
<td>4,8</td>
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<tr>
<td>CAMPANULACEAE</td>
<td>Lobelia cardinalis L.</td>
<td>cardinal flower</td>
<td>4,8</td>
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<tr>
<td></td>
<td>Lobelia inflata L.</td>
<td>Indian-tobacco</td>
<td>5,6</td>
<td></td>
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<tr>
<td></td>
<td>Lobelia puberula Michx.</td>
<td>downy lobelia</td>
<td>2</td>
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<tr>
<td></td>
<td>Lobelia siphilitica L.</td>
<td>great lobelia</td>
<td>4</td>
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<tr>
<td></td>
<td>Lobelia spicata Lam.</td>
<td>spiked lobelia</td>
<td>2</td>
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<tr>
<td></td>
<td>Triodanis perfoliata (L.) Nieuwl.</td>
<td>Venus’-looking-glass</td>
<td>6</td>
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<tr>
<td></td>
<td>= Specularia perfoliata (L.) A. DC.</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
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<tr>
<td>CAPRIFOLIACEAE</td>
<td><em>Lonicera japonica</em> Thunb.</td>
<td>Japanese honeysuckle</td>
<td>1,2,3,4,5,6</td>
<td></td>
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<tr>
<td></td>
<td><em>Lonicera maackii</em> (Rupr.) Herder</td>
<td>Amur honeysuckle</td>
<td>9</td>
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<td></td>
<td><em>Lonicera morrowii</em> Gray</td>
<td>Morrow honeysuckle</td>
<td>2</td>
<td></td>
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<td></td>
<td><em>Sambucus nigra</em> L. ssp. <em>canadensis</em> (L.) R. Bolli = <em>Sambucus canadensis</em> L.</td>
<td>common elderberry</td>
<td>3,4,5</td>
<td></td>
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<tr>
<td></td>
<td>Symphoricarpos orbiculatus Moench</td>
<td>coral-bery</td>
<td>1,2,4,5,6</td>
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<tr>
<td></td>
<td><em>Viburnum acerifolium</em> L.</td>
<td>perfoliate tinker’s-wood</td>
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<tr>
<td></td>
<td><em>Viburnum prunifolium</em> L.</td>
<td>maple-leaf viburnum</td>
<td>1,2,6</td>
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<tr>
<td></td>
<td><em>Viburnum recognitum</em> Fern.</td>
<td>smooth black-haw</td>
<td>1,2,3,4,5,6</td>
<td></td>
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<tr>
<td></td>
<td><em>Viburnum</em></td>
<td>northern arrow-wood</td>
<td>1,2,3,5</td>
<td></td>
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<tr>
<td>CARYOPHYLLACEAE</td>
<td><em>Dianthus armeria</em> L.</td>
<td>Deptford-pink</td>
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<td></td>
<td>Paronychia canadensis (L.) Wood</td>
<td>forked nailwort</td>
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<tr>
<td></td>
<td>Paronychia fastigata (Raf.) Fern.</td>
<td>cluster-stemmed nailwort</td>
<td>1</td>
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<td></td>
<td><em>Silene caroliniana</em> Walt. ssp. <em>pensylvanica</em> (Michx.) Clausen</td>
<td>wild pink</td>
<td>2,6</td>
<td></td>
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<tr>
<td></td>
<td><em>Silene latifolia</em> Poir. ssp. <em>alba</em> (P. Mill.) Greuter Burdet</td>
<td>wild campion</td>
<td>9</td>
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<tr>
<td></td>
<td><em>Stellaria media</em> (L.) Vill.</td>
<td>common chickweed</td>
<td>4,7,9</td>
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<td></td>
<td><em>Stellaria pubera</em> Michx.</td>
<td>giant chickweed</td>
<td>1,2,4</td>
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<tr>
<td>CELASTRACEAE</td>
<td><em>Celastrus orbiculata</em> Thunb.</td>
<td>Oriental bittersweet</td>
<td>2</td>
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<td></td>
<td><em>Euonymus americana</em> L.</td>
<td>American strawberry-bush</td>
<td>1,6</td>
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<tr>
<td></td>
<td><em>Euonymus atropurpurea</em> Jacq.</td>
<td>wahoo</td>
<td>4</td>
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<tr>
<td>CHENOPODIACEAE</td>
<td><em>Chenopodium album</em> L.</td>
<td>white goosefoot</td>
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<td>CISTACEAE</td>
<td><em>Lechea racemulosa</em> Michx.</td>
<td>Illinois pinweed</td>
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<td>CLUSIACEAE</td>
<td><em>Hypericum canadense</em> L.</td>
<td>Canadian St. John’s-wort</td>
<td>8</td>
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<tr>
<td></td>
<td><em>Hypericum gentianoides</em> (L.) B.S.P.</td>
<td>orange-grass</td>
<td>9</td>
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<tr>
<td></td>
<td><em>Hypericum gymnanthum</em> Engelm. &amp; Gray</td>
<td>clasping-leaved St. John’s-wort</td>
<td>8</td>
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<td></td>
<td><em>Hypericum hypericoides</em> (L.) Crantz ssp. <em>multicaule</em> (Michx. ex Willd.) Robson = <em>Hypericum stragulum</em> P. Adams &amp; Robson</td>
<td>St. Andrew’s cross</td>
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<td></td>
<td><em>Hypericum prolificum</em> L.</td>
<td>slender St. John’s-wort</td>
<td>4,8</td>
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<tr>
<td>CONVOLVULACEAE</td>
<td><em>Ipomoea hederacea</em> Jacq.</td>
<td>common St. John’s-wort</td>
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<tr>
<td></td>
<td><em>Ipomoea pandurata</em> (L.) G.F.W. Mey.</td>
<td>shrubby St. John’s-wort</td>
<td>1,2,7</td>
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<td></td>
<td><em>Ipomoea purpurea</em> (L.) Roth</td>
<td>spotted St. John’s-wort</td>
<td>4,9</td>
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<tr>
<td>CORNACEAE</td>
<td><em>Cornus amomum</em> P. Mill.</td>
<td>silky dogwood</td>
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<td></td>
<td><em>Cornus florida</em> L.</td>
<td>flowering dogwood</td>
<td>1,2,3,6</td>
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<td><em>Nyssa sylvatica</em> Marsh.</td>
<td>black gum</td>
<td>1,2,5</td>
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<td>CRASSULACEAE</td>
<td><em>Sedum ternatum</em> Michx.</td>
<td>wild stonecrop</td>
<td>1,2,10</td>
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<td></td>
<td><em>Penthorum sedoides</em> L.</td>
<td>ditch-stonecrop</td>
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<td>DIPSACACEAE</td>
<td><em>Dipsacus fullonum</em> L.</td>
<td>common teasel</td>
<td>9</td>
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<td>EBENACEAE</td>
<td>Diospyros virginiana L.</td>
<td>persimmon</td>
<td>1,2,3,5,6,7</td>
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<tr>
<td>ELAEAGNACEAE</td>
<td>*Elaeagnus umbellata Thumb. var. parvifolia (Royle) Schneid.</td>
<td>autumn-olive</td>
<td>2,6</td>
<td>V,C</td>
</tr>
<tr>
<td>ERICACEAE</td>
<td>Gaylussacia baccata (Wangenh.) K. Koch</td>
<td>black huckleberry</td>
<td>1</td>
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<td>Kalmia latifolia L.</td>
<td>mountain-laurel</td>
<td>1</td>
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<td>Rhododendron periclymenoides (Michx.) Shinners</td>
<td>wild azalea</td>
<td>1</td>
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<td></td>
<td>Vaccinium pallidum Ait.</td>
<td>early lowbush blueberry</td>
<td>1,2,6</td>
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<td>Vaccinium stamineum L.</td>
<td>deerberry</td>
<td>1,2,6</td>
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<tr>
<td>EUPHORBIACEAE</td>
<td>Acalypha virginica L.</td>
<td>Virginia copperleaf</td>
<td>2,6</td>
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<td></td>
<td>Chamaesyce maculata (L.) Small</td>
<td>spotted spurge</td>
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<td></td>
<td><em>Euphorbia maculata L.</em></td>
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<td></td>
<td>Chamaesyce nutans (Lag.) Small</td>
<td>eyebane</td>
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<td></td>
<td><em>Euphorbia nutans Lag.</em></td>
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<td>Euphorbia corollata L.</td>
<td>flowering spurge</td>
<td>1,2,7</td>
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<td>FABACEAE</td>
<td>*Albizia julibrissin Durazz.</td>
<td>silk tree</td>
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<td></td>
<td>Amphicarpaea bracteata (L.) Fern.</td>
<td>American hog-peanut</td>
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<td>Baptisia tinctoria (L.) R. Br. ex Ait. f.</td>
<td>yellow wild-indigo</td>
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<td>Cercis canadensis L.</td>
<td>eastern redbud</td>
<td>1,2,6,7</td>
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<td></td>
<td>Chamaecrista fasciculata (Michx.) Greene</td>
<td>partridge-pea</td>
<td>6,7</td>
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<td></td>
<td><em>Cassia fasciculata Michx.</em></td>
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<td></td>
<td>Chamaecrista nictitans (L.) Moench</td>
<td>wild sensitive senna</td>
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<td><em>Cassia nictitans L.</em></td>
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<td>Clitoria mariana L.</td>
<td>Maryland butterfly-pea</td>
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<td><em>Coronilla varia L.</em></td>
<td>common crown-vetch</td>
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<td></td>
<td>Desmodium canescens (L.) DC.</td>
<td>hoary tick-trefoil</td>
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<tr>
<td></td>
<td>Desmodium ciliare (Muhl. ex Wild.) DC.</td>
<td>hairy small-leaved tick-trefoil</td>
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<td>Desmodium glabellum (Michx.) DC.</td>
<td>Dillen tick-trefoil</td>
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<td>Desmodium laevigatum (Nutt.) DC.</td>
<td>smooth tick-trefoil</td>
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<td>Desmodium marilandicum (L.) DC.</td>
<td>Maryland tick-trefoil</td>
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<td>Desmodium nudiflorum (L.) DC.</td>
<td>naked-flowered tick-trefoil</td>
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<td>Desmodium paniculatum (L.) DC.</td>
<td>narrow-leaf tick-trefoil</td>
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<td>Desmodium perplexum Schub.</td>
<td>perplexing tick-trefoil</td>
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<td>Desmodium rotundifolium DC.</td>
<td>prostrate tick-trefoil</td>
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<td>Desmodium viridiflorum (L.) DC.</td>
<td>velvet tick-trefoil</td>
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<td>Gleditsia triacanthos L.</td>
<td>honey-locust</td>
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<td>*Kummerowia stipulacea (Maxim.) Makino</td>
<td>Korean bushclover</td>
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<td>*Kummerowia striata (Thunb.) Schindl.</td>
<td>Japanese bushclover</td>
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<td></td>
<td><em>Lespedeza capitata Michx.</em></td>
<td>round-head bushclover</td>
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<td>V,C</td>
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<td></td>
<td>*Lespedeza cuneata (Dum.-Cours.) G. Don</td>
<td>sericea bushclover</td>
<td>7,9</td>
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<td>*Lespedeza hirta (L.) Hornem.</td>
<td>hairy bushclover</td>
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<td></td>
<td>*Lespedeza procumbens Michx.</td>
<td>trailing bushclover</td>
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<td>*Lespedeza repens (L.) W. Bart.</td>
<td>creeping bushclover</td>
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<td>*Lespedeza violacea (L.) Pers.</td>
<td>wand bushclover</td>
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<tr>
<td></td>
<td>*Lespedeza intermedia sensu Clewell, 1966</td>
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<td></td>
<td>Lespedeza virginica (L.) Brit.</td>
<td>slender bushclover</td>
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<td><em>Lotus corniculatus L.</em></td>
<td>bird’s foot trefoil</td>
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<td>V,C</td>
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<td></td>
<td>*Melilotus officinalis (L.) Lam.</td>
<td>sweet clover</td>
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<td>Robinia pseudoacacia L.</td>
<td>black locust</td>
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<td>Senna hebecarpa (Fern.) Irwin &amp; Barneby</td>
<td>northern wild senna</td>
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<td></td>
<td><em>Cassia hebecarpa Fern.</em></td>
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<td>Strophostyles umbellata (Muhl. ex Wild.) Brit.</td>
<td>pink wild-bean</td>
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<td>Stylosanthes biflora (L.) B.S.P.</td>
<td>pencilflower</td>
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<td>Tephrosia virginiana (L.) Pers.</td>
<td>goat’s-rue</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
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<td>FABACEAE (continued)</td>
<td><em>Trifolium arvense</em> L.</td>
<td>rabbit-foot clover</td>
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<td></td>
<td><em>Trifolium campestre</em> Schreb.</td>
<td>low hop clover</td>
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<td><em>Trifolium hybridum</em> L.</td>
<td>alsike clover</td>
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<td><em>Trifolium pratense</em> L.</td>
<td>red clover</td>
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<td><em>Trifolium reflexum</em> L.</td>
<td>buffalo clover</td>
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<td><em>Trifolium repens</em> L.</td>
<td>white clover</td>
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<td><em>Vicia caroliniana</em> Walt.</td>
<td>Carolina wood vetch</td>
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<td><em>Vicia cracca</em> L.</td>
<td>tufted vetch</td>
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<td></td>
<td><em>Vicia sativa</em> L.</td>
<td>spring vetch</td>
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<td></td>
<td><em>Vicia tetrasperma</em> (L.) Schreb.</td>
<td>lentil vetch</td>
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<td>FAGACEAE</td>
<td><em>Castanea mollissima</em> Blume</td>
<td>Chinese chestnut</td>
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<td>Fagus grandifolia Ehrh.</td>
<td>American beech</td>
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<td></td>
<td>Quercus alba L.</td>
<td>white oak</td>
<td>1,2,5,6</td>
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<tr>
<td></td>
<td>Quercus bicolor Willd.</td>
<td>swamp white oak</td>
<td>3,5</td>
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<td></td>
<td>Quercus cocinea Muenchh.</td>
<td>scarlet oak</td>
<td>1,2,6</td>
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<td></td>
<td>Quercus falcata Michx.</td>
<td>Southern red oak</td>
<td>1,2,6</td>
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<tr>
<td></td>
<td>Quercus muehlenbergii Engelm.</td>
<td>chinkapin oak</td>
<td>2</td>
<td>V,C</td>
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<td></td>
<td>Quercus palustris Muenchh.</td>
<td>pin oak</td>
<td>2,3,4,5</td>
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<tr>
<td></td>
<td>Quercus prinus L.</td>
<td>chestnut oak</td>
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<td>= Quercus montana Willd.</td>
<td>red oak</td>
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<td></td>
<td>Quercus rubra L.</td>
<td>Shumard’s oak</td>
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<td></td>
<td>Quercus shumardii Buckl.</td>
<td>post oak</td>
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<td>Quercus stellata Wangenh.</td>
<td>black oak</td>
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<td></td>
<td>Quercus velutina Lam.</td>
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<td>FUMARIACEAE</td>
<td>Corydalis flavula (Raf.) DC.</td>
<td>yellow corydalis</td>
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<td>Dicentra cucullaria (L.) Bernh.</td>
<td>Dutchman’s breeches</td>
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<tr>
<td>GENTIANACEAE</td>
<td>Gentiana clausa Raf.</td>
<td>closed gentian</td>
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<tr>
<td></td>
<td>Sabatia angularis (L.) Pursh</td>
<td>square-stemmed rose-pink</td>
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<td>GERANIACEAE</td>
<td>Geranium maculatum L.</td>
<td>wild geranium</td>
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<td>HALORAGACEAE</td>
<td>Myriophyllum sibiricum Komarov</td>
<td>common water-milfoil</td>
<td>8</td>
<td>V,C</td>
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<td></td>
<td>= Myriophyllum exalbescens Fern.</td>
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<td>Proserpinaca palustris L.</td>
<td>common mermaid-weed</td>
<td>8</td>
<td>V,C</td>
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<td>HAMAMELIDACEAE</td>
<td>Hamamelis virginiana L.</td>
<td>witch-hazel</td>
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<td>HYDRANGEACEAE</td>
<td>Hydrangea arborescens L.</td>
<td>wild hydrangea</td>
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<td>HYDROPHYLLACEAE</td>
<td>Hydrophyllum virginianum L.</td>
<td>Virginia waterleaf</td>
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<td>JUGLANDACEAE</td>
<td>Carya alba (L.) Nutt. ex Ell.</td>
<td>mockernut hickory</td>
<td>1,2,3,5,6</td>
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<tr>
<td></td>
<td>= Carya tomentosa (Lam. ex Poir.) Nutt.</td>
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<td></td>
<td>Carya cordiformis (Wangenh.) K. Koch</td>
<td>bitternut hickory</td>
<td>1,2,3,4,5,6</td>
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<td></td>
<td>Carya glabra (P. Mill.) Sweet</td>
<td>pignut hickory</td>
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<td></td>
<td>Carya ovalis (Wangenh.) Sarg.</td>
<td>red hickory</td>
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<td>Juglans cinerea L.</td>
<td>butternut</td>
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<td>Juglans nigra L.</td>
<td>black walnut</td>
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<td>LAMIACEAE</td>
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<tr>
<td>*Chaiturus marrubiastrum (L.) Reichenb.</td>
<td>lion’s-tail</td>
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<td>= Leonurus marrubiastrum L.</td>
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<td>*Clinopodium vulgare L.</td>
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<td>= Satureja vulgaris (L.) Fritsch</td>
<td>wild basil</td>
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<td>*Clinopodium vulgare L.</td>
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<tr>
<td>= Satureja vulgaris (L.) Fritsch</td>
<td>common dittany</td>
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<tr>
<td>Glycyrrhiza</td>
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<td>*Glycyrrhiza</td>
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<tr>
<td>= Glycyrrhiza</td>
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<tr>
<td>Hedeoma pulegioides (L.) Pers.</td>
<td>American pennyroyal</td>
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<td>*Isanthes brachiatas (L.) B.S.P.</td>
<td>false pennyroyal</td>
<td>10</td>
<td>V,C</td>
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<td>*Lamium purpureum L.</td>
<td>purple deadnettle</td>
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<td>Lycopus americanus Muhl. ex W. Bart.</td>
<td>American bugleweed</td>
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<td>Lycopus uniflorus Michx.</td>
<td>northern bugleweed</td>
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<td>Lycopus virginicus L.</td>
<td>Virginia bugleweed</td>
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<td>Mentha arvensis L.</td>
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<tr>
<td>*Mentha × piperita L. (pro sp.) [aquatica × spicata]</td>
<td>peppermint</td>
<td>4</td>
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<td>*Nepeta cataria L.</td>
<td>catnip</td>
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<td>*Potentilla frutescens (L.) Britt.</td>
<td>beef-steam plant</td>
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<tr>
<td>Prunella vulgaris L. ssp. lanceolata (W. Bart.) Hultén</td>
<td>American self-heal</td>
<td>3,7</td>
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<td>Pycnanthemum inanum (L.) Michx.</td>
<td>hoary mountain-mint</td>
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<td>Pycnanthemum tenax (L.) Schrad.</td>
<td>narrow-leaved mountain-mint</td>
<td>2,3,5,7</td>
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<td>Salvia lyrata L.</td>
<td>lyre-sage</td>
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<td>Scutellaria elliptica Muhl. ex Spreng.</td>
<td>hairy skullcap</td>
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<td>Scutellaria integrifolia L.</td>
<td>helmet-flower</td>
<td>1,2,5,7</td>
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<td>Scutellaria lateriflora L.</td>
<td>mad dog skullcap</td>
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<td>Scutellaria nervosa Pursh</td>
<td>veined skullcap</td>
<td>1,3,4</td>
<td>V,C</td>
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<tr>
<td>Scutellaria parvula Michx. var. missouriensis (Torr.) Goodman &amp; Lawson</td>
<td>shale-barren skullcap</td>
<td>2,9</td>
<td>V</td>
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<td>= Scutellaria leonardii Epling</td>
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<td>Stachys pilosa Nutt. var. arenicola (Britt.) G. Mulligan &amp; D. Munro</td>
<td>marsh hedgenettle</td>
<td>5,7</td>
<td>V,C</td>
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<tr>
<td>Stachys tenuifolia Willd.</td>
<td>smooth hedgenettle</td>
<td>8</td>
<td>V</td>
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<td>Teucrium canadense L.</td>
<td>American germander</td>
<td>4,8,9</td>
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<td>Trichostema dichotomum L.</td>
<td>blue-curls</td>
<td>7,9</td>
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<td>LAURACEAE</td>
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<td>Lindera benzoin (L.) Blume</td>
<td>spicebush</td>
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<td>Sassafras albidum (Nutt.) Nees</td>
<td>sassafras</td>
<td>1,2,6</td>
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<td>LIMNANTHACEAE</td>
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<td>Floerkea proserpinacoides Willd.</td>
<td>false mermaid-weed</td>
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<td>LINACEAE</td>
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<td>Linum medium (Planch.) Britt. var. texanum (Planch.) Fern.</td>
<td>wild flax</td>
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<td>LYTHRACEAE</td>
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<td>Cuphea viscosissima Jacq.</td>
<td>blue waxweed</td>
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<td>MAGNOLIACEAE</td>
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<td>Liriodendron tulipifera L.</td>
<td>tulip-tree</td>
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<td>MALVACEAE</td>
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<td>*Malva neglecta Wallr.</td>
<td>dwarf cheeseweed</td>
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<td>*Sida spinosa L.</td>
<td>prickly mallow</td>
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<td>MENISPERMACEAE</td>
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<td>Menispernum canadense L.</td>
<td>Canada moonseed</td>
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<td>MOLLUGINACEAE</td>
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<td>*Mollugo verticillata L.</td>
<td>green carpetweed</td>
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<td>MONOTROPACEAE</td>
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<td>Monotropa uniflora L.</td>
<td>Indian-pipe</td>
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<td>MORACEAE</td>
<td>*Morus alba L.</td>
<td>white mulberry</td>
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<td>Morus rubra L.</td>
<td>red mulberry</td>
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<td>OLEACEAE</td>
<td>Chionanthus virginicus L.</td>
<td>fringetree</td>
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<td>Fraxinus americana L.</td>
<td>white ash</td>
<td>1,2,6,7</td>
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<td></td>
<td>Fraxinus pennsylvanica Marsh.</td>
<td>green ash</td>
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<td>ONAGRACEAE</td>
<td>Circaea lutetiana L.</td>
<td>enchanters nightshade</td>
<td>2,3,4,5</td>
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<td>Gaura biennis L.</td>
<td>biennial gaura</td>
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<td>Ludvigia alternifolia L.</td>
<td>alternate-leaved seedbox</td>
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<td>Ludvigia palustris (L.) Ell.</td>
<td>marsh seedbox</td>
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<td>Oenothera fruticosa L.</td>
<td>narrow-leaved sundrops</td>
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<td>Oenothera perennis L.</td>
<td>small sundrops</td>
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<td>OROGRANACEAE</td>
<td>Conopholis americana (L.) Wallr. f.</td>
<td>squawroot</td>
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<td>Orobanche uniflora L.</td>
<td>one-flowered cancer-root</td>
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<td>OXALIDACEAE</td>
<td>Oxalis dillenii Jacq.</td>
<td>slender yellow woodsorrel</td>
<td>1,2,5,6</td>
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<td>Oxalis stricta L.</td>
<td>upright yellow woodsorrel</td>
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<td>Oxalis violacea L.</td>
<td>violet woodsorrel</td>
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<td>PAPAVERACEAE</td>
<td>Sanguinaria canadensis L.</td>
<td>bloodroot</td>
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<td>PLANTAGINACEAE</td>
<td>*Plantago aristata Michx.</td>
<td>large-bracted plantain</td>
<td>7,9</td>
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<tr>
<td></td>
<td>*Plantago lanceolata L.</td>
<td>English plantain</td>
<td>7,9</td>
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<td>*Plantago rugelii Dene.</td>
<td>pale plantain</td>
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<td>Plantago virginica L.</td>
<td>Virginia plantain</td>
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<td>PLATANACEAE</td>
<td>Platanus occidentalis L.</td>
<td>sycamore</td>
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<td>POLYGALACEAE</td>
<td>Polygala sanguinea L.</td>
<td>field milkwort</td>
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<td>Polygala verticillata L.</td>
<td>whorled milkwort</td>
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<td>POLYGONACEAE</td>
<td>*Polygonum arenastrum Jord. ex Boreau</td>
<td>oval-leaf knotweed</td>
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<tr>
<td></td>
<td>= Polygonum aviculare var. arenastrum (Jord. ex Boreau) Rouy</td>
<td>long-bristled smartweed</td>
<td>2,3,4</td>
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<tr>
<td></td>
<td>*Polygonum caespitosum Blume var. longisetum (de Bruyn) A.N. Steward</td>
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<td></td>
<td>Polygonum hydropiperoides Michx.</td>
<td>mild water-pepper</td>
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<td>V,C</td>
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<td></td>
<td>Polygonum pensylvanicum L.</td>
<td>Pennsylvania smartweed</td>
<td>5</td>
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<td></td>
<td>*Polygonum persicaria L.</td>
<td>lady’s thumb</td>
<td>5</td>
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<td>Polygonum punctatum Ell.</td>
<td>dotted smartweed</td>
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<td>Polygonum sagittatum L.</td>
<td>arrow-leaved tearthumb</td>
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<td>Polygonum scandens var. cristatum (Engelm. &amp; Gray) Gleason</td>
<td>crested false-buckwheat</td>
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<td>Polygonum tenue Michx.</td>
<td>slender knotweed</td>
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<td>Polygonum virginianum L.</td>
<td>Virginia knotweed</td>
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<td>*Rumex acetosella L.</td>
<td>sheep sorrel</td>
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<td>*Rumex crispus L.</td>
<td>curly dock</td>
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<td>*Rumex obtusifolius L.</td>
<td>bitter dock</td>
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<td>Rumex verticillatus L.</td>
<td>swamp dock</td>
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<td>PORTULACACEAE</td>
<td>Claytonia virginica L.</td>
<td>spring beauty</td>
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<td></td>
<td>*Portulaca oleracea L.</td>
<td>common purslane</td>
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<td>GROUP/FAMILY</td>
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<td>PRIMULACEAE</td>
<td>Lysimachia ciliata L.</td>
<td>fringed loosestrife</td>
<td>3,4,5,6</td>
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<td>Lysimachia quadriflora Sims</td>
<td>whorled loosestrife</td>
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<td></td>
<td>Samolus valerandi L. ssp. parviflorus (Raf.) Hultén</td>
<td>water pimpernel</td>
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<td></td>
<td>= Samolus parviflorus Raf.</td>
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<td>PYROLACEAE</td>
<td>Chimaphila maculata (L.) Pursh</td>
<td>spotted wintergreen</td>
<td>1,6</td>
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<td>Chimaphila umbellata (L.) W. Bart.</td>
<td>pipsissewa</td>
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<tr>
<td>RANUNCULACEAE</td>
<td>Actaea racemosa L.</td>
<td>black bugbane</td>
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<td>= Cimicifuga racemosa (L.) Nutt.</td>
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<td>Anemone quinquefolia L.</td>
<td>wood anemone</td>
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<td>Anemone virginiana L.</td>
<td>thimbleweed</td>
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<td>Aquilegia canadensis L.</td>
<td>wild columbine</td>
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<td>Clematis ochroleuca Ait.</td>
<td>curly-heads</td>
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<td></td>
<td>*Clematis terniflora DC.</td>
<td>Japanese virgin’s-bower</td>
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<td>V,C</td>
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<td>= Clematis dioecifolia Lev. &amp; Vaniot</td>
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<td></td>
<td>Hepatica nobilis Schreber var. obsesa (Pursh) Steyermark</td>
<td>round-lobed hepatica</td>
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<td>= Hepatica americana (DC.) Ker-Gawl.</td>
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<td>Ranunculus abortivus L.</td>
<td>kidneyleaf crowfoot</td>
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<td>*Ranunculus bulbosus L.</td>
<td>bulbous buttercup</td>
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<td>= Ranunculus septentrionalis Poiret</td>
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<td>Ranunculus hispidus Michx. var. caricetorum (Greene) T. Duncan</td>
<td>swamp buttercup</td>
<td>3,5</td>
<td>V,C</td>
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<td>= Ranunculus septentrionalis Poiret</td>
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<td>Ranunculus hispidus Michx. var. hispidus</td>
<td>bristly buttercup</td>
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<td>Ranunculus micranthus Nutt.</td>
<td>rock buttercup</td>
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<td>Ranunculus recurvatus Poir.</td>
<td>hooked crowfoot</td>
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<td>Thalictrum dioicum L.</td>
<td>early meadowrue</td>
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<td>Thalictrum revolutum DC.</td>
<td>skunk meadowrue</td>
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<td>Thalictrum thalictroides (L.) Eames &amp; Boivin</td>
<td>rue-anemone</td>
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<td>= Anemonella thalictroides (L.) Spach</td>
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<td>RHAMNACEAE</td>
<td>Ceanothus americanus L.</td>
<td>New Jersey tea</td>
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<td>ROSACEAE</td>
<td>Agrimonia parviflora Ait.</td>
<td>small-flowered agrimony</td>
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<td>Agrimonia pubescens Wallr.</td>
<td>downy agrimony</td>
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<td>Agrimonia rostellata Wallr.</td>
<td>woodland agrimony</td>
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<td>Amelanchier arborea (Michx. f.) Fern.</td>
<td>downy serviceberry</td>
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<td>Amelanchier laevis Wieg.</td>
<td>smooth serviceberry</td>
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<td>Amelanchier stolonifera Wieg.</td>
<td>low serviceberry</td>
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<td>Crataegus flabellata (Spach) Kirchn.</td>
<td>fan-leaf hawthorn</td>
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<td>Crataegus intricata Lange</td>
<td>Copenhagen hawthorn</td>
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<td>Crataegus punctata Jacq.</td>
<td>dotted hawthorn</td>
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<td>*Duchesnea indica (Andr.) Focke</td>
<td>Indian strawberry</td>
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<td>Fragaria virginiana Duchesne</td>
<td>wild strawberry</td>
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<td>Geum canadense Jacq.</td>
<td>white avens</td>
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<td>Geum virginianum L.</td>
<td>cream avens</td>
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<td>V,C</td>
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<td>Malus angustifolia (Ait.) Michx.</td>
<td>southern crabapple</td>
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<td>= Malus pumila P. Mill.</td>
<td>common apple</td>
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<td>Physocarpus opulifolius (L.) Maxim.</td>
<td>ninebark</td>
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<td>Potentilla canadensis L.</td>
<td>Canada cinquefoil</td>
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<td>*Potentilla recta L.</td>
<td>upright cinquefoil</td>
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<td>Potentilla simplex Michx.</td>
<td>common cinquefoil</td>
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<td>Prunus americana Marsh.</td>
<td>American wild plum</td>
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<td>Prunus angustifolia Marsh.</td>
<td>Chickasaw plum</td>
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<td>*Prunus avium (L.) L.</td>
<td>sweet cherry</td>
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<td>*Prunus domestica L.</td>
<td>European plum</td>
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<td>Prunus serotina Ehrh.</td>
<td>wild black cherry</td>
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<td>*Pyrus communis L.</td>
<td>common pear</td>
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<td>Rosa carolina L.</td>
<td>pasture rose</td>
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<td>*Rosa multiflora Thub. ex Murr.</td>
<td>multiflora rose</td>
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<td>ROSACEAE (continued)</td>
<td><strong>Rubus allegheniensis</strong> Porter</td>
<td>Allegheny blackberry</td>
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<td><strong>Rubus argutus</strong> Link</td>
<td>prickly blackberry</td>
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<td><strong>Rubus canescens Pursh</strong></td>
<td>sand blackberry</td>
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<td><strong>Rubus flagellaris</strong> Wild.</td>
<td>Northern dewberry</td>
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<td><strong>Rubus occidentalis</strong> L.</td>
<td>black raspberry</td>
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<tr>
<td></td>
<td><em>Spiraea alba</em>* Du Roi var. <em>latifolia</em> (Ait.) Dippel</td>
<td>broad-leaved meadowsweet</td>
<td>8</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td><em>Spiraea latifolia</em> (Ait.) Borkh.</td>
<td>a cultivated hybrid spiraea</td>
<td>8</td>
<td>V</td>
</tr>
<tr>
<td>RUBIACEAE</td>
<td><strong>Cephalanthus occidentalis</strong> L.</td>
<td>common buttonbush</td>
<td>3,8</td>
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<tr>
<td></td>
<td><em>Cruciata pedemontana</em> (Bellardi) Ehrend.</td>
<td>Piedmont bedstraw</td>
<td>7</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td>= <em>Galium pedemontanum</em> (Bellardi) All.</td>
<td>buttonweed</td>
<td>3,4,5</td>
<td></td>
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<tr>
<td></td>
<td><strong>Diodia teres</strong> Walt.</td>
<td>cleavers</td>
<td>1,2,3,4,5</td>
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<tr>
<td></td>
<td><strong>Galium aparine</strong> L.</td>
<td>forest bedstraw</td>
<td>1,2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Galium circaeans</strong> Michx.</td>
<td>shining bedstraw</td>
<td>2,3</td>
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<tr>
<td></td>
<td><strong>Galium concinnum</strong> Torr. &amp; Gray</td>
<td>Carolina bedstraw</td>
<td>3</td>
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</tr>
<tr>
<td></td>
<td><strong>Galium obtusum</strong> Bigelow ssp. filifolium (Wieg.) Puff</td>
<td>bluntleaf bedstraw</td>
<td>3,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Galium pilosum</strong> Ait.</td>
<td>hairy bedstraw</td>
<td>1,2,6,7</td>
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<tr>
<td></td>
<td><strong>Galium tinctorium</strong> (L.) Scop.</td>
<td>stiff marsh bedstraw</td>
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<td></td>
<td><strong>Galium triflorum</strong> Michx.</td>
<td>sweet-scented bedstraw</td>
<td>1,2,4,5,6</td>
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<tr>
<td></td>
<td><strong>Houstonia caerulea</strong> L.</td>
<td>bluets</td>
<td>1,2,4,5,6</td>
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<tr>
<td></td>
<td>= <em>Hedyotis caerulea</em> (L.) Hook.</td>
<td>buttonweed</td>
<td>1,2,4,5,6</td>
<td></td>
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<tr>
<td></td>
<td><strong>Houstonia purpurea</strong> L.</td>
<td>large summer bluets</td>
<td>1,2,6</td>
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<tr>
<td></td>
<td><em>Mitchella repens</em> L.</td>
<td>partridge-berry</td>
<td>1,2,6</td>
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<tr>
<td>RUTACEAE</td>
<td><strong>Zanthoxylum americanum</strong> P. Mill.</td>
<td>northern prickly-ash</td>
<td>2,3</td>
<td>V</td>
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<tr>
<td>SALICACEAE</td>
<td><strong>Salix nigra</strong> Marsh.</td>
<td>black willow</td>
<td>8</td>
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<tr>
<td>SANTALACEAE</td>
<td><strong>Comandra umbellata</strong> (L.) Nutt.</td>
<td>bastard toadflax</td>
<td>1</td>
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<td>SAURURACEAE</td>
<td><strong>Saururus cernus</strong> L.</td>
<td>lizard’s tail</td>
<td>3</td>
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<tr>
<td>SAXIFRAGACEAE</td>
<td><strong>Heuchera americana</strong> L.</td>
<td>American alumroot</td>
<td>1,2,10</td>
<td></td>
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<tr>
<td></td>
<td><strong>Saxifraga virginiana</strong> Michx.</td>
<td>early saxifrage</td>
<td>1,10</td>
<td></td>
</tr>
<tr>
<td>SCROPHULARIACEAE</td>
<td><strong>Agalinis purpurea</strong> (L.) Pennell</td>
<td>large purple false-foxtglove</td>
<td>7</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td><strong>Agalinis tenuifolia</strong> (Vahl) Raf.</td>
<td>slender false-foxtglove</td>
<td>7</td>
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<tr>
<td></td>
<td><strong>Aureolaria pediculata</strong> (L.) Raf. var. intercedens Pennell</td>
<td>fern-leaved yellow foxtglove</td>
<td>1</td>
<td>V</td>
</tr>
<tr>
<td></td>
<td><strong>Aureolaria virginica</strong> (L.) Pennell</td>
<td>downy yellow foxtglove</td>
<td>2</td>
<td></td>
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<tr>
<td></td>
<td><strong>Buchnera americana</strong> L.</td>
<td>blue-hearts</td>
<td>7</td>
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<td></td>
<td><strong>Chelone glabra</strong> L.</td>
<td>white turtlehead</td>
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<tr>
<td></td>
<td><strong>Graziola neglecta</strong> Torr.</td>
<td>clammy hedge-hysop</td>
<td>5,6</td>
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<tr>
<td></td>
<td><strong>Lindernia dubia</strong> (L.) Pennell var. anagallidea** (Michx.) Cooperrider</td>
<td>false-pimpernel</td>
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<tr>
<td></td>
<td><strong>Lindernia dubia</strong> (L.) Pennell var. dubia</td>
<td>long-stalked false-pimpernel</td>
<td>4,8</td>
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<tr>
<td></td>
<td><strong>Mimulus alatus</strong> Ait.</td>
<td>winged monkey-flower</td>
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<tr>
<td></td>
<td><strong>Mimulus ringens</strong> L.</td>
<td>monkey-flower</td>
<td>8</td>
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<tr>
<td></td>
<td><strong>Penstemon digitalis</strong> Nutt. ex Sims</td>
<td>foxglove beardtongue</td>
<td>9</td>
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<tr>
<td></td>
<td><strong>Penstemon hirsutus</strong> (L.) Wild.</td>
<td>hairy beardtongue</td>
<td>7</td>
<td>V</td>
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<tr>
<td></td>
<td><strong>Penstemon laevigatus</strong> Ait.</td>
<td>smooth beardtongue</td>
<td>2,3</td>
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<tr>
<td></td>
<td><em>Verbascum blattaria</em>* L.</td>
<td>moth mullein</td>
<td>9</td>
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<tr>
<td></td>
<td><em>Verbascum thapsus</em>* L.</td>
<td>great mullein</td>
<td>9</td>
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</tr>
<tr>
<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
<td>HABITATS</td>
<td>COUNTY RECORD</td>
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<tr>
<td>SCROPHULARIACEAE</td>
<td>*Veronica arvensis L.</td>
<td>corn speedwell</td>
<td>9</td>
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</tr>
<tr>
<td></td>
<td>*Veronica hederifolia L.</td>
<td>ivy-leaf speedwell</td>
<td>4</td>
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<tr>
<td></td>
<td>Veronica officinalis L.</td>
<td>common speedwell</td>
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<tr>
<td></td>
<td>Veronica peregrina L.</td>
<td>purslane speedwell</td>
<td>9</td>
<td></td>
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<tr>
<td></td>
<td>*Veronica persica Poir.</td>
<td>bird's-eye speedwell</td>
<td>9</td>
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<tr>
<td></td>
<td>*Veronica serpyllifolia L. ssp. serpyllifolia</td>
<td>thyme-leaved speedwell</td>
<td>9</td>
<td></td>
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<tr>
<td>SIMAROUBACEAE</td>
<td>*Ailanthus altissima (P. Mill.) Swingle</td>
<td>tree-of-heaven</td>
<td>6</td>
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<tr>
<td>SOLANACEAE</td>
<td>*Datura stramonium L.</td>
<td>Jimson-weed</td>
<td>9</td>
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<tr>
<td></td>
<td>Physalis longifolia Nutt. var. subglabrata</td>
<td>smooth ground-cherry</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Mackenzie &amp; Bush) Cronq.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Physalis virginiana P. Mill.</td>
<td>Virginia ground-cherry</td>
<td>2</td>
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<td></td>
<td>Solanum carolinense L.</td>
<td>Carolina horse-nettle</td>
<td>7,9</td>
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</tr>
<tr>
<td></td>
<td>*Solanum dulcamara L.</td>
<td>climbing nightshade</td>
<td>8</td>
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<tr>
<td>STAPHYLEACEAE</td>
<td>Staphylea trifolia L.</td>
<td>bladdernut</td>
<td>2,4</td>
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<tr>
<td>ULMACEAE</td>
<td>Celtis laevigata Willd.</td>
<td>common hackberry</td>
<td>6</td>
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<tr>
<td></td>
<td>Celtis occidentalis L.</td>
<td>sugarberry</td>
<td>1,2,3,4,5</td>
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<tr>
<td></td>
<td>Celtis tenuifolia Nutt.</td>
<td>Georgia hackberry</td>
<td>3</td>
<td>V,C</td>
</tr>
<tr>
<td></td>
<td>Ulmus americana L.</td>
<td>American elm</td>
<td>1,2,3,4,5</td>
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<tr>
<td></td>
<td>Ulmus rubra Muhl.</td>
<td>slippery elm</td>
<td>2,4,6</td>
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<tr>
<td>URTICACEAE</td>
<td>Boehmeria cylindrica (L.) Sw.</td>
<td>false nettle</td>
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<td>Laportea canadensis (L.) Weddell</td>
<td>wood nettle</td>
<td>4</td>
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<td></td>
<td>Parietaria pensylvanica Muhl. ex Willd.</td>
<td>Pennsylvania pellitory</td>
<td>2,10</td>
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<td></td>
<td>Pilea pumila (L.) Gray</td>
<td>greenfruit clearweed</td>
<td>2,3</td>
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<tr>
<td>VALERIANACEAE</td>
<td>Valerianella radiata (L.) Dufr.</td>
<td>beaked cornsalad</td>
<td>7</td>
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<tr>
<td>VERBENACEAE</td>
<td>Phryma leptostachya L.</td>
<td>lopseed</td>
<td>1,2</td>
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<tr>
<td></td>
<td>Verbena hastata L.</td>
<td>blue vervain</td>
<td>8</td>
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<tr>
<td></td>
<td>Verbena simplex Lehmn.</td>
<td>narrow-leaved vervain</td>
<td>7</td>
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<tr>
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<td>Verbena urticifolia L.</td>
<td>white vervain</td>
<td>4</td>
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<tr>
<td>VIOLACEAE</td>
<td>Hybanthus concolor (T.F. Forst.) Spreng.</td>
<td>green violet</td>
<td>2</td>
<td>V,C</td>
</tr>
<tr>
<td></td>
<td>Viola cullata Ait.</td>
<td>marsh blue violet</td>
<td>3</td>
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<tr>
<td></td>
<td>Viola pubescens Ait. var. pubescens</td>
<td>downy yellow violet</td>
<td>4</td>
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</tr>
<tr>
<td></td>
<td>Viola pubescens Ait. var. scabriascula Schwein. ex Torr. &amp; Gray</td>
<td>smooth yellow violet</td>
<td>4</td>
<td></td>
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<tr>
<td></td>
<td>= Viola eriocarpum (Nutt.) Schwein. var. leiocarpum Fern. &amp; Wieg.</td>
<td></td>
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<tr>
<td></td>
<td>= Viola pensylvanica Michx.</td>
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<tr>
<td></td>
<td>Viola sagittata Ait.</td>
<td>arrow-leaved violet</td>
<td>1,7</td>
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<td></td>
<td>Viola sororia Wild.</td>
<td>common blue violet</td>
<td>1,2,4,6</td>
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<td></td>
<td>Viola striata Ait.</td>
<td>striped violet</td>
<td>2,4</td>
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<td></td>
<td>Viola triloba Schwein. var. triloba</td>
<td>cleft violet</td>
<td>1,2</td>
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<tr>
<td>VITACEAE</td>
<td>Parthenocissus quinquefolia (L.) Planch.</td>
<td>Virginia creeper</td>
<td>1,2,3,4,5,6,10</td>
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<tr>
<td></td>
<td>Vitis aestivalis Michx. var. aestivalis</td>
<td>summer grape</td>
<td>1,2,5</td>
<td></td>
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<tr>
<td></td>
<td>Vitis aestivalis Michx. var. bicolor Deam</td>
<td>silverleaf grape</td>
<td>1</td>
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<td></td>
<td>Vitis vulpina L.</td>
<td>winter grape</td>
<td>1,2,3,4,5,6</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
<td>HABITATS</td>
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<tr>
<td>ANGIOSPERMAE: MONOCOTYLEDONEAE</td>
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<tr>
<td>AGAVACEAE</td>
<td>Yucca filamentosa L.</td>
<td>common yucca</td>
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<tr>
<td></td>
<td>Alisma subcordatum Raf.</td>
<td>broad-leaved water-plantain</td>
<td></td>
<td>3,5</td>
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<tr>
<td>ARACEAE</td>
<td>Arisaema draconium (L.) Schott</td>
<td>green dragon</td>
<td></td>
<td>2,3</td>
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<td></td>
<td>Arisaema triphyllum (L.) Schott</td>
<td>Jack-in-the-pulpit</td>
<td></td>
<td>1,2,3,4,5</td>
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<tr>
<td>COMMELINACEAE</td>
<td><em>Commelina communis</em> L.</td>
<td>Asiatic dayflower</td>
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<td>9</td>
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<tr>
<td></td>
<td>Commelina virginica L.</td>
<td>Virginia dayflower</td>
<td></td>
<td>3,4</td>
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<tr>
<td></td>
<td><em>Murdannia keisak</em> (Hassk.) Hand.-Maz.</td>
<td>marsh dewflower</td>
<td></td>
<td>4,8 V,C</td>
</tr>
<tr>
<td>CYPERACEAE</td>
<td>Carex albiacaena Willd. ex Spreng. var. australis (Bailey) J. Rettig</td>
<td>bellow-beaked sedge</td>
<td></td>
<td>1,2,4,6</td>
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<tr>
<td></td>
<td>= Carex phyoxyrhyncha Liebm.</td>
<td></td>
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<tr>
<td></td>
<td>Carex amphihola Steud.</td>
<td>narrow-leaved sedge</td>
<td></td>
<td>1,2 V</td>
</tr>
<tr>
<td></td>
<td>Carex annectens (Bickn.) Bickn.</td>
<td>yellow-fruited sedge</td>
<td></td>
<td>5</td>
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<td></td>
<td>Carex blanda Dewey</td>
<td>woodland sedge</td>
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<td>2,3,4,6</td>
</tr>
<tr>
<td></td>
<td>Carex brevior (Dewey) Mackenzie</td>
<td>short-beak sedge</td>
<td></td>
<td>3 V,C</td>
</tr>
<tr>
<td></td>
<td>Carex bushii Mackenzie</td>
<td>Bush’s sedge</td>
<td></td>
<td>7,8 V</td>
</tr>
<tr>
<td></td>
<td>Carex Caroliniana Schwein.</td>
<td>Carolina sedge</td>
<td></td>
<td>3,4</td>
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<td>Carex cephalophora Muhl. ex Willd.</td>
<td>oval-leaved sedge</td>
<td></td>
<td>1,2,3,6</td>
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<tr>
<td></td>
<td>Carex communis Bailey</td>
<td>fibrous-root sedge</td>
<td></td>
<td>1,10</td>
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<td></td>
<td>Carex digitals Willd.</td>
<td>slender wood sedge</td>
<td></td>
<td>1,2</td>
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<tr>
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<td>Carex festucaea Schkuhr ex Willd.</td>
<td>fescue sedge</td>
<td></td>
<td>3,5,8 V,C</td>
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<tr>
<td></td>
<td>Carex frankii Kunth</td>
<td>Frank sedge</td>
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<td>3,5,6</td>
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<tr>
<td></td>
<td>Carex glaucodea Tuckerman ex Olney</td>
<td>flaccid sedge</td>
<td></td>
<td>2,5,6</td>
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<td></td>
<td>Carex gracilis Steud.</td>
<td>slender sedge</td>
<td></td>
<td>3,5</td>
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<tr>
<td></td>
<td>Carex granularis Muhl. ex Willd.</td>
<td>meadow sedge</td>
<td></td>
<td>3,5</td>
</tr>
<tr>
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<td>Carex grati Carey</td>
<td>Asi Gray sedge</td>
<td></td>
<td>3,4 V</td>
</tr>
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<td></td>
<td>Carex grisea Wahlenb.</td>
<td>ambiguous sedge</td>
<td></td>
<td>3,4,5</td>
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<td></td>
<td>Carex hispataella Mackenzie</td>
<td>hirsute sedge</td>
<td></td>
<td>1,2,5,6</td>
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<tr>
<td></td>
<td>= Carex complanata Torr. &amp; Hook. var. hirsuta(Willd.) Gleason</td>
<td></td>
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<tr>
<td></td>
<td>Carex intumescenter Rudge</td>
<td>bladder sedge</td>
<td></td>
<td>3 V</td>
</tr>
<tr>
<td></td>
<td>Carex jasmisii Schwein.</td>
<td>Nebraska sedge</td>
<td></td>
<td>2,4 V</td>
</tr>
<tr>
<td></td>
<td>Carex laevigata (Kukenth.) Mackenzie</td>
<td>smooth-sheath sedge</td>
<td></td>
<td>5,8</td>
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<tr>
<td></td>
<td>Carex laxiflora Lam.</td>
<td>loose-flowered sedge</td>
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</tr>
<tr>
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<td>Carex louisianica Bailey</td>
<td>Louisiana sedge</td>
<td></td>
<td>3 V,C</td>
</tr>
<tr>
<td></td>
<td>Carex lupulina Muhl. ex Willd.</td>
<td>hop sedge</td>
<td></td>
<td>3,8 V,C</td>
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<td>Carex lurida Wahlenb.</td>
<td>sallow sedge</td>
<td></td>
<td>3,8</td>
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<td></td>
<td>Carex meadii Mackenzie</td>
<td>Mead’s sedge</td>
<td></td>
<td>7 V</td>
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<td></td>
<td>Carex muehlenbergii Schkuhr ex Willd.</td>
<td>Muehlenberg’s sedge</td>
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<td></td>
<td>Carex nigromarginata Schwein.</td>
<td>black-edge sedge</td>
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<td>1,2</td>
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<td>Carex normalis Mackenzie</td>
<td>greater straw sedge</td>
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<td>4,8 V</td>
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<td></td>
<td>Carex oligosperma Schkuhr ex Willd.</td>
<td>eastern few-fruit sedge</td>
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<td>2 V,C</td>
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<td>Carex pellitata Muhl ex Willd.</td>
<td>woolly sedge</td>
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<td>5 V,C</td>
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<td></td>
<td>= Carex lanuginosa auct. non Michx.</td>
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<td>Carex pensylvanica Lam.</td>
<td>Pennsylvania sedge</td>
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<td>Carex platyphylla Carey</td>
<td>broad-leaved sedge</td>
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<td>1 V</td>
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<td>Carex radiata (Wahlenb.) Small</td>
<td>stellate sedge</td>
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<td>3,4,5</td>
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<td>Carex rosea Schkuhr ex Willd.</td>
<td>rosy sedge</td>
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<td>Carex scoparia Schkuhr ex Willd.</td>
<td>pointed broom sedge</td>
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<td>Carex squarrosa L.</td>
<td>squarrose sedge</td>
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<td>Carex stipata Muhl. ex Willd. var. maxima Chapman</td>
<td>large stalk-grain sedge</td>
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<td>3 V</td>
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<td>= Carex unior (C. Mohr) Mackenzie</td>
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<td>Carex stipata Muhl. ex Willd. var. stipata</td>
<td>stalk-grain sedge</td>
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<td>3,8</td>
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<td>Carex stricta Lam.</td>
<td>tussock sedge</td>
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<td>Carex styloflexa Buckl.</td>
<td>bend sedge</td>
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<td>Carex swamii (Fern.) Mackenzie</td>
<td>Swan sedge</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
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<td>CYPERACEAE</td>
<td>Carex tonsa (Fern.) Bickn.</td>
<td>shaved sedge</td>
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<td>= Carex umbellata var. tonsa Fern.</td>
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<td>Carex tribuloides Wahlenb.</td>
<td>blunt broom sedge</td>
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<td>Carex typhina Michx.</td>
<td>cat-tail sedge</td>
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<td>Carex vulpinoides Michx.</td>
<td>fox sedge</td>
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<td>Carex willdenowii Schkuhr ex Willd.</td>
<td>Willdenow’s sedge</td>
<td>1,2,6</td>
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<td></td>
<td>Cyperus echinatus (L.) Wood</td>
<td>globe flattened</td>
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<td></td>
<td>Cyperus lancastriensis Porter ex Gray</td>
<td>many-flowered flattened</td>
<td>8</td>
<td>V,C</td>
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<td>Cyperus odoratus L.</td>
<td>rusty flattened</td>
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<td>V,C</td>
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<td>Cyperus strigosus L.</td>
<td>straw-colored flattened</td>
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<td>Eleocharis obtusa (Willd.) J.A. Schultes</td>
<td>blunt spikerush</td>
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<td></td>
<td>Eleocharis tenuis (Willd.) J.A. Schultes</td>
<td>slender spikerush</td>
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<td></td>
<td>Kyllinga pumila Michx.</td>
<td>thinleaf flattened</td>
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<td>= Cyperus tenuifolius (Steud.) Dandy</td>
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<td></td>
<td>Schoenoplectus tabernaemontani (K.C. Gmel.) Palla</td>
<td>soft-stem bulrush</td>
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<tr>
<td></td>
<td>= Scirpus validus Vahl</td>
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<td></td>
<td>Scirpus atroviridis Willd.</td>
<td>dark-green bulrush</td>
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<td>Scirpus cyperinus (L.) Kunth</td>
<td>woolgrass bulrush</td>
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<td>Scirpus georgianus Harper</td>
<td>Georgia bulrush</td>
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<td>Scirpus pendulus Mulh.</td>
<td>reddish bulrush</td>
<td>3,8</td>
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<td>Scirpus pauciflorus Mulh. ex Willd.</td>
<td>fewflower nutrush</td>
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<td>DIOSCORACEAE</td>
<td>Dioscorea quaternata J.F. Gmel.</td>
<td>whorled wild yam</td>
<td>1,2,3,5</td>
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<td>HYDROCHARITACEAE</td>
<td>Elodea nuttallii (Planch.) St. John</td>
<td>Nuttall waterweed</td>
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<td>IRIDACEAE</td>
<td>Iris versicolor L.</td>
<td>blueflag</td>
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<td>Sisyrinchium micranatum Michx.</td>
<td>Michaux blue-eyed grass</td>
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<td>JUNCACEAE</td>
<td>Juncus acuminatus Michx.</td>
<td>sharp-fruited rush</td>
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<td></td>
<td>Juncus biflorus Ell.</td>
<td>grass-leaved rush</td>
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<td>Juncus brachycarpus Engelm.</td>
<td>short-fruited rush</td>
<td>8</td>
<td>V,C</td>
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<td>Juncus dichotomus Ell.</td>
<td>forked rush</td>
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<td>Juncus dudleyi Sieg.</td>
<td>Dudley’s rush</td>
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<td>V,C</td>
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<td>Juncus effusus L.</td>
<td>soft rush</td>
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<td>Juncus tenus Willd.</td>
<td>slender rush</td>
<td>1,2,3,5</td>
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<td>Luzula bulbosa (Wood) Smyth &amp; Smyth</td>
<td>southern woodrush</td>
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<td></td>
<td>Luzula echinata (Small) F.J. Herm.</td>
<td>spreading woodrush</td>
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<td>LEMNACEAE</td>
<td>Lemna minor L.</td>
<td>lesser duckweed</td>
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<td>LILIACEAE</td>
<td>Allium canadense L.</td>
<td>meadow onion</td>
<td>3,4</td>
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<td></td>
<td>*Allium vineale L.</td>
<td>field garlic</td>
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<td>*Asparagus officinalis L.</td>
<td>asparagus</td>
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<td></td>
<td>Erythronium americanum Ker-Gawl.</td>
<td>yellow trout-lily</td>
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<td>Hypoxis hirsuta (L.) Coville</td>
<td>eastern yellow stargrass</td>
<td>1,2</td>
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<td>Polygonatum biflorum (Walt.) Ell.</td>
<td>Solomon’s-seal</td>
<td>1,2,4,10</td>
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<td></td>
<td>Maianthemum racemosum (L.) Link</td>
<td>false Solomon’s-seal</td>
<td>1,2,6</td>
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<td></td>
<td>= Smilacina racemosa (L.) Desf.</td>
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<td>Uvularia perfoliata L.</td>
<td>perfoliate bellwort</td>
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<td>ORCHIDACEAE</td>
<td>Corallorhiza odontorhiza (Willd.) Poir.</td>
<td>autumn coralroot</td>
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<td></td>
<td>Goodyera pubescens (Willd.) R. Br. ex Ait. f.</td>
<td>downy rattlesnake-plantain</td>
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<td>Liparis lilifolia (L.) L.C. Rich. ex Ker-Gawl.</td>
<td>large twayblade</td>
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<td></td>
<td>Platanthera lacera (Michx.) G. Don</td>
<td>ragged fringed orchid</td>
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<td></td>
<td>= Habenaria lacera (Michx.) R. Br.</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
<td>HABITATS</td>
<td>COUNTY RECORD</td>
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<tr>
<td>ORCHIDACEAE (continued)</td>
<td><strong>Spiranthes lacera</strong> (Raf.) Raf. var. gracilis (Bigelow) Luer</td>
<td>southern slender ladies’-tresses</td>
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<td></td>
<td>= <strong>Spiranthes gracilis</strong> (Bigelow) Beck</td>
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<tr>
<td></td>
<td><strong>Spiranthes tuberosa</strong> Raf.</td>
<td>little ladies’-tresses</td>
<td>1</td>
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<td></td>
<td>= <strong>Spiranthes grayi</strong> Ames</td>
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<td></td>
<td><strong>Tipularia discolor</strong> (Pursh) Nutt.</td>
<td>cranely orchid</td>
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<td>POACEAE</td>
<td><strong>Agrostis elliottiana</strong> J.A. Schultes</td>
<td>Elliott bentgrass</td>
<td>6,9 V</td>
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<td><strong>Agrostis hyemalis</strong> (Walt.) B.S.P.</td>
<td>winter bentgrass</td>
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<td><strong>Agrostis perennans</strong> (Walt.) Tuckerman</td>
<td>autumn bentgrass</td>
<td>1,2,5,6</td>
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<td><strong>Andropogon virginicus</strong> L.</td>
<td>broom-sedge</td>
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<td></td>
<td><em>Anthosanthis odoratum</em>* L.</td>
<td>sweet vernal grass</td>
<td>7,9 V</td>
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<td><strong>Aristida longespica</strong> Poir.</td>
<td>slip-spice three-awn grass</td>
<td>7,9 V</td>
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<td><strong>Aristida oligantha</strong> Michx.</td>
<td>prairie three-awn grass</td>
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<td><em>Arthusaxax hispidas</em>* (Thunb.) Makino</td>
<td>joint-head arthusaxax</td>
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<td><strong>Bromus commutatus</strong> Schrad.</td>
<td>hairy brome grass</td>
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<tr>
<td></td>
<td><em>Bromus japonicus</em>* Thunb. ex Murr.</td>
<td>Japanese brome grass</td>
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<td></td>
<td><strong>Bromus pubescens</strong> Muhl. ex Wild.</td>
<td>common Eastern brome grass</td>
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<td><strong>Bromus racemosus</strong> L.</td>
<td>spiked brome grass</td>
<td>7,9 V</td>
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<td><em>Bromus sterilis</em>* L.</td>
<td>poverty brome</td>
<td>9 V</td>
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<td><strong>Cinnar arundinacea</strong> L.</td>
<td>wood reed grass</td>
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<td><em>Cynodon dactylon</em>* (L.) Pers.</td>
<td>Bermuda grass</td>
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<td><strong>Dactylis glomerata</strong> L.</td>
<td>orchard grass</td>
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<td><strong>Danthonia spicata</strong> (L.) Beauv. ex Roemer &amp; J.A. Schultes</td>
<td>poverty oat-grass</td>
<td>1,2,3,5,6,7</td>
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<td><strong>Dichanthelium acuminatum</strong> (Sw.) Gould &amp; C.A. Clark</td>
<td>tapered panic grass</td>
<td>1,2,3,5,6,7</td>
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<tr>
<td></td>
<td>var. acuminatum</td>
<td></td>
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<td></td>
<td><strong>Dichanthelium scoparium</strong> (Lam.) Gould</td>
<td>tapered panic grass</td>
<td>5 V</td>
<td></td>
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<tr>
<td></td>
<td>var. lindheimeri** (Nash) Gould &amp; C.A. Clark</td>
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<td><strong>Dichanthelium boscii</strong> (Poir.) Gould &amp; C.A. Clark</td>
<td>Bosc’s panic grass</td>
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<td><strong>Dichanthelium clandestinum</strong> (L.) Gould</td>
<td>deer-tongue panic grass</td>
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<td><strong>Dichanthelium commutatum</strong> (J.A. Schultes) Gould</td>
<td>variable panic grass</td>
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<td><strong>Dichanthelium depauperatum</strong> (Muhl.) Gould</td>
<td>starved panic grass</td>
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<td><strong>Dichanthelium dichotomum</strong> (L.) Gould</td>
<td>small-fruited panic grass</td>
<td>1,2,5,6</td>
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<td><strong>Dichanthelium linearifolium</strong> (Scribn. ex Nash) Gould</td>
<td>narrow-leaf panic grass</td>
<td>2,5,7</td>
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<td><strong>Dichanthelium scoparium</strong> (Lam.) Gould</td>
<td>velvet panic grass</td>
<td>8 V</td>
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<td></td>
<td>var. acuminatum (Sw.) Gould &amp; C.A. Clark</td>
<td>roundfruit panic grass</td>
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<td><strong>Dichanthelium sphaeroagarpon</strong> (Eil.) Gould var. isophyllum (Scribn.) Gould &amp; C.A. Clark</td>
<td>bottlebrush grass</td>
<td>1,2,3,5</td>
<td></td>
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<tr>
<td></td>
<td>var. lindheimeri** (Nash) Gould &amp; C.A. Clark</td>
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<tr>
<td></td>
<td><strong>Digitaria ischaemum</strong> (Schreb.) Schreb. ex Muhl.</td>
<td>smooth crabgrass</td>
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<td><em>Digitaria sanguinalis</em>* (L.) Scop.</td>
<td>hairy crabgrass</td>
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<td><strong>Echinocloa muricata</strong> (Beauv.) Fern.</td>
<td>rough barnyard grass</td>
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<td></td>
<td><em>Eleusine indica</em>* (L.) Gaertn.</td>
<td>Indian goosegrass</td>
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<tr>
<td></td>
<td><strong>Elymus hystrix</strong> L. var. hystrix</td>
<td>river-bank wild rye</td>
<td>3,4 V,C</td>
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<tr>
<td></td>
<td>var. patula** Moench</td>
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<td></td>
<td><strong>Elymus riparius</strong> Wieg.</td>
<td>river-bank wild rye</td>
<td>3,4 V,C</td>
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<td><strong>Elymus virginicus</strong> L.</td>
<td>Virginia wild rye</td>
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<td><em>Eragrostis cilianensis</em>* (All.) Vign. ex Janchen</td>
<td>stinkgrass</td>
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<td><em>Eragrostis curvula</em>* (Schrad.) Nees</td>
<td>weeping lovegrass</td>
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<td></td>
<td><em>Eragrostis pilosa</em>* (L.) Beauv.</td>
<td>India lovegrass</td>
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<td></td>
<td><strong>Eragrostis spectabilis</strong> (Pursh) Steud.</td>
<td>purple lovegrass</td>
<td>7</td>
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<tr>
<td></td>
<td><strong>Festuca rubra</strong> L.</td>
<td>red fescue</td>
<td>2,9</td>
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<tr>
<td></td>
<td><strong>Festuca subverticillata</strong> (Pers.) Alexeev</td>
<td>noding fescue</td>
<td>1,2,3,4</td>
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<tr>
<td></td>
<td><strong>Glyceria septentrionalis</strong> A.S. Hitchc.</td>
<td>eastern mannagrass</td>
<td>3,8 V C</td>
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<tr>
<td></td>
<td><strong>Glyceria striata</strong> (Lam.) A.S. Hitchc.</td>
<td>fowl mannagrass</td>
<td>3,4,5</td>
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<tr>
<td></td>
<td><strong>Holcus lanatus</strong> L.</td>
<td>common velvet grass</td>
<td>6,9</td>
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<tr>
<td></td>
<td><strong>Hordeum pusillum</strong> Nutt.</td>
<td>little barley</td>
<td>9</td>
<td></td>
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<tr>
<td></td>
<td><strong>Leersia oryzoides</strong> (L.) Sw.</td>
<td>rice cutgrass</td>
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<tr>
<td></td>
<td><strong>Leersia virginica</strong> Willd.</td>
<td>Virginia cutgrass</td>
<td>3,5</td>
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<td></td>
<td><strong>Lolium pratense</strong> (Huds.) S.J. Darbyshire</td>
<td>meadow fescue</td>
<td>2,3,5,7,9</td>
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<td></td>
<td>= <strong>Festuca elatior</strong> L. p.p.</td>
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<td></td>
<td><strong>Microstegium vimineum</strong> (Trin.) A. Camus</td>
<td>eulalia</td>
<td>1,2,3,4,8</td>
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<tr>
<td></td>
<td><strong>Muhlenbergia frondosa</strong> (Poir.) Fern.</td>
<td>wirestem muhly</td>
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<tr>
<td></td>
<td><strong>Muhlenbergia schreberi</strong> J.F. Gmel.</td>
<td>nimble-will</td>
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<td>GROUP/FAMILY</td>
<td>SCIENTIFIC NAME</td>
<td>COMMON NAME</td>
<td>HABITATS</td>
<td>COUNTY RECORD</td>
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<tr>
<td><strong>POACEAE</strong></td>
<td><strong>continued</strong></td>
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<tr>
<td></td>
<td>Muhlenbergia sobolifera (Muhl. ex Willd.) Trin.</td>
<td>cliff muhly</td>
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<tr>
<td></td>
<td>Panicum anceps Michx.</td>
<td>beaked panic grass</td>
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<tr>
<td></td>
<td>Panicum capillare L.</td>
<td>witch grass</td>
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<tr>
<td></td>
<td>Panicum dichotomiflorum Michx.</td>
<td>fall witch grass</td>
<td>7,9</td>
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<td></td>
<td>Panicum philadelphicum Bernh. ex Trin.</td>
<td>Philadelphia panic grass</td>
<td>7</td>
<td>V,C</td>
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<td></td>
<td>Panicum rigidulon Bosc ex Nees var. elongatum (Pursh) Lelong</td>
<td>redtop panic grass</td>
<td>4,8</td>
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<tr>
<td></td>
<td>Panicum rigidulon Bosc ex Nees var. rigidulum</td>
<td>tall flat panic grass</td>
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<tr>
<td></td>
<td>Paspalum laeve Michx.</td>
<td>field paspalum</td>
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<tr>
<td></td>
<td>Paspalum setaceum Michx.</td>
<td>slender paspalum</td>
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<td></td>
<td>Phalaris arundinacea L.</td>
<td>reed canary grass</td>
<td>8</td>
<td>V,C</td>
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<tr>
<td></td>
<td>*Phleum pratense L.</td>
<td>meadow timothy</td>
<td>7</td>
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<td></td>
<td>*Poa annua L.</td>
<td>annual bluegrass</td>
<td>7,9</td>
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<tr>
<td></td>
<td>*Poa autumnalis Muhl. ex Ell.</td>
<td>autumn bluegrass</td>
<td>3,4</td>
<td>V,C</td>
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<td></td>
<td>*Poa compressa L.</td>
<td>flat-stemmed bluegrass</td>
<td>1,2,3,5</td>
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<td></td>
<td>Poa cuspidata Nutt.</td>
<td>short-leaved bluegrass</td>
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<tr>
<td></td>
<td>Poa pratensis L.</td>
<td>Kentucky bluegrass</td>
<td>3,7</td>
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<td>Poa sylvestris Gray</td>
<td>woodland bluegrass</td>
<td>4</td>
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<tr>
<td></td>
<td>*Poa trivialis L.</td>
<td>rough bluegrass</td>
<td>3,4,5</td>
<td>V,C</td>
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<tr>
<td></td>
<td>Schizachyrium scoparium (Michx.) Nash</td>
<td>little bluestem</td>
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<tr>
<td></td>
<td>= Andropogon scoparius Michx.</td>
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<tr>
<td></td>
<td>*Setaria faberi Herrm.</td>
<td>nodding foxtail</td>
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<tr>
<td></td>
<td>= Setaria parviflora (Poir.) Kerguélen</td>
<td>bristly foxtail</td>
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<tr>
<td></td>
<td>= Setaria viridis (L.) Beauv.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>[under Pennisetum glaucum (L.) R. Br. in Kartesz (1999)]</td>
<td></td>
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<tr>
<td></td>
<td>*Setaria viridis (L.) Beauv.</td>
<td>green foxtail</td>
<td>7,9</td>
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<td></td>
<td>Sorghastrum nutans (L.) Nash</td>
<td>Indian grass</td>
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<td></td>
<td>Sphenopholis nitida (Biehler) Scribn.</td>
<td>shiny wedge grass</td>
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<td>Sphenopholis pensylvanica (L.) A.S. Hitchc.</td>
<td>swamp wedge grass</td>
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<td>Sporobolus vaginiflorus (Torr. ex Gray) Wood</td>
<td>sheathed dropseed</td>
<td>9</td>
<td>V,C</td>
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<td></td>
<td>Tridens flavus (L.) A.S. Hitchc.</td>
<td>redtop</td>
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<td>Tripasacum dactyloides (L.) L.</td>
<td>northern gamagrass</td>
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<td>Vulpia octoflora (Walt.) Rydb.</td>
<td>slender fescue</td>
<td>6</td>
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<td><strong>PONTEDERIACEAE</strong></td>
<td>Pontederia cordata L.</td>
<td>pickerel weed</td>
<td>4,8</td>
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<td><strong>POTAMOGETONACEAE</strong></td>
<td>Potamogeton diversiformis Raf.</td>
<td>water-thread pondweed</td>
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<tr>
<td><strong>SMILACACEAE</strong></td>
<td>Smilax glauca Wlt.</td>
<td>whiteleaf greenbrier</td>
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<tr>
<td></td>
<td>Smilax herbacea L.</td>
<td>common carrionflower</td>
<td>3,5</td>
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<td>Smilax pulverulenta Michx.</td>
<td>hairy carrionflower</td>
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<td>Smilax rotundifolia L.</td>
<td>common greenbrier</td>
<td>1,2,3,5,6</td>
<td>V,C</td>
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<tr>
<td></td>
<td>Smilax tannoides L.</td>
<td>bristly greenbrier</td>
<td>2,4,6</td>
<td>V,C</td>
</tr>
<tr>
<td></td>
<td>= Smilax hispida Muhl. ex Torr.</td>
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<tr>
<td><strong>TYphaACEAE</strong></td>
<td>Typha latifolia L.</td>
<td>broad-head cattail</td>
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