

Flora of Sauk County and Caledonia Township, Columbia County, south central Wisconsin. No. 190 1998

Lange, Kenneth I.

Madison, Wisconsin: Wisconsin Department of Natural Resources, 1998

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Alder Alnus rugosa Alfalfa Medicago sativa American Film Ulmus americana Asiatic Heneysuckle. Loncera tatarica Basswood. Tila americana Beaked Hazel. Corptus canuta. Big Bluestent. Andropogon gerardii. Big-leaved Aster. Aster macrophyllus. Bird's-foot Trefoil. Lorus conneculatus. Black. Ash. Fraximis nigra. Black Oak. Quercus velutina. Bloodroot. Sanguinaria canadensis. Bluegrass. Poa compressa and/or. P. pratensis. Bluegrass. Poa compressa and/or. P. pratensis. Bluegrass. Calanagrostis canadensis. Canade Mayflovier. Maianthemum canadense. Cat-tail(s). Typha sp. (spp.). Cinnation Fetti. Oshunda cinnationied. Cliff. Cudweed. Graphalium saxicola. Cliff. Goldenrod. Solidaga sciaphila. Colic-root. Aletris farinasa. Common Buckthorn. Rhamius cathartica. Common Wood-soriel. Oxalis montana. Creamy Baptisia. Baptisia hracteata. Crown-vetch. Coronilla varia. Dame's Rocker. Hesperis matronalis.

Drooping Sed eflower Talinum rugospermui nax quinquefolius Gray Quercus ellipsotdalis Hill ricum kalmianum Lad May-apple Pedophyllun thapsus No Violet Viola pedata Pitch Isclepias pur purascens (um Red Oak Quercus tuln les Sawgrass Carex lacusti saccharinuni Skunk-cabba r Stlene steltata Sugar-Toothwort Dentaria lac penliywort Hydrocoryle. Quercus alba Yellow Birch Betüla allegi ame's Rocket Hesperis ma l bràchtainm Faineflower hva Ginseng Panax quinq p. Hill's Oak Querous ellip John's-wort Hypericum k ni scoparitim tum Mullein momea Cliff Common Wo is marronalis Drooping Se rugespermu rax quinquefolius Gravi soidalis Hill rleum kalmianum - Làdy May-apple Podophyllun Verbaseum thapsus No Violet Viola padata Pitch Asclemas purum Red Oak les Sawgrass Carex lacusti saccharinum Skimk-cabba n Silene stelláta Súgar I Toothwort Dentaria laci er-pennywort White Oak Ulmus americana Asiatic gerardii Big-

leaved Aster Aster nacrophyllus Bird's foot Trefoil Lorus cornicidants Black Ash. Fraxinus nigro. Black Oak. Quercus velutina. Bloodroot sanguingria caradensis. Bluegras Tod empressa and/or. Psatensis. Bluego. Calumagnostis canadensis. Canada Mayflower. Maianthemum canadense. Car-tail(s). Typhasp. (BLORA: OF SAUKin COUNTY vaAND xicola. Cliff Goldenrod. Solidago setaphula. Colic got. Alertis janiosa. Common Buckthorn. Riaminis caliaritea. Common Wood-sortel. Oxalis montana. Creany Baptisia. Baptisia. bracteata. Eta CALEDONIA: OWNSHIP al COLUMBIA: County Veches. Dicentra cuculturia: False Pennytoyal. Itichostona brachicum. Famellower. Influent riagospermum. Flagrant Fett. Dryopieus flagrans. Aarlic Mustard. Alliaria petiolata. Cay Feather. Las Court ill. Central and Mustard. Mustard. Pine Pinus bankstana. Kalinis St. Johns. worth Hyperictum kalmianum. Ladys-slippers. Cypripedium spp. Leather leat. Chomaedaphno calvellata. Little Bluestein. Schizachyrium scoparium. May apple. Podophyllum petiatum. Meadow beauty. Rhaxia virginica. Moschatel. Adoxa moschatellina. Mountain Maple. Acer spicatum. Mullein. Verbassum thapsus. Northern Menkshood. Acontrum novelopacense. Oakis.) Quercus sp. (spp.). Old-field Cinqueioil. Potentilla simpley. Pansy Violet. Viola pedata. Pitcher-plant. Safracenta purputea. Pondweeds. Potamogeron spp. Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp. Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp., Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp., Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp., Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp., Purple. Loosestrie. Lytimem salicana. Pitcher plant. Safracenta purputea. Pondweeds. Potamogeron spp.

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Upper left - Vasculum, rule, and plant press of Increase A. Lapham, Wisconsin's pioneering naturalist. Photo courtesy the State Historical Society of Wisconsin Whi(x3)17665.

Upper right - Lapham botanizing in Taylor's Glen, Wisconsin Dells, in 1869. Photo courtesy the State Historical Society of Wisconsin Whi(x3)35231.

Lower left - White Gentian, a state threatened species, in Devil's Lake State Park, 1969. Lower right - Hill's Thistle, a state threatened species, in Greenfield Township, 1969.

ABSTRACT

This flora of Sauk County and Caledonia Township, Columbia County, Wisconsin, includes the native, naturalized, and adventive vascular plants authentically known from the study area. It was derived from a number of sources, including vascular plant lists compiled by the author from 1966 through 1994 for a total of 198 localities; vascular plant lists and species records from other individuals, when verifiable; and herbaria, mainly the University of Wisconsin-Madison. The existing literature, including the original land surveys, local newspapers, and local histories, was also consulted.

Introductory sections include a history of botanical investigations in the study area, a discussion of the plant communities of the study area and the origins of the local flora, and a review of the rare native species. The text is complemented by a total of 55 figures and photographs, some of historic interest.

Although a Sauk County flora is included in the checklist, the major emphasis is not on political boundaries, but on the landform and the 2 geographical provinces that occur within the study area—the Baraboo Hills and the Western Upland and Central Plain. They are delineated and their floras compared. This approach was judged to be more meaningful in determining patterns and relationships. The checklist also includes the vascular plants of Devil's Lake State Park; those Devil's Lake State Park species known only from Devil's Lake, including its shoreline; the vascular plants known only from the Wisconsin River bottoms; and the vascular plants known only from Caledonia Township.

This technical bulletin complements the author's survey of the postglacial vegetational history of the same area (Lange 1990).

Key Words: Flora, vascular plants, native species, adventive species, naturalized species, rare species, annotated checklist, Baraboo Hills, Western Upland, Central Plain, Sauk and Columbia counties, Caledonia Township.

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FLORA OF SAUK COUNTY AND CALEDONIA TOWNSHIP, COLUMBIA COUNTY, SOUTH CENTRAL WISCONSIN

by Kenneth I. Lange

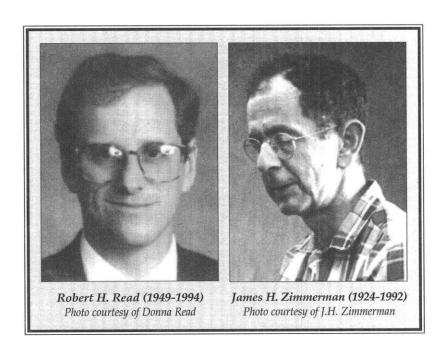
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Dedicated to the memory of two very special and treasured friends,

James H. Zimmerman and Robert H. Read



May their spirits forever enjoy the wildflowers of Spring.





Prologue

How does one breathe life into the written page, into, say, a vascular plant list? I have no magic formula, but I do know that my plant lists can be magical, in that they can conjure memory-images of places, of sunlight and shadow, of people, of events, such a kaleidoscope of images that it can be overwhelming. Always I'm reminded of halcyon days in the field, golden days to hold close to the heart.

And the field botanists of the past, what of them and their halcyon days? I think of Increase Lapham, exploring the rocky shoreline of Devil's Lake, just a year after Wisconsin became a state, and of the gentle poet-naturalist of Lake Koshkonong, Thure Kumlien, collecting plants at Devil's Lake just a year before the Civil War began. Especially I think of a young man in his late 20s, recently arrived from Europe, exploring a land-scape already being changed by the new immigrants but still nearly virgin, where a "beautiful green carpet, dotted with innumerable flowers of great variety, lay beneath our feet, and stretched away beyond the verge of the horizon" (Lueders 1880:489).

The landscape that Frederick Lueders gazed upon more than a century and a half ago is now a ghost landscape, altered beyond recognition and lost forever, just like his plant specimens in the Columbia River. Human-altered landscapes now are common, and becoming more so. What then of naturalists and their halcyon days? What then of nature and all its glory?

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CONTENTS

- **6 LIST OF TABLES**
- **6 LIST OF FIGURES**
- 9 INTRODUCTION
- 9 STUDY AREA
- 14 HISTORY OF BOTANICAL INVESTIGATIONS IN THE STUDY AREA
- 18 METHODS

Field Records, 18

Herbaria Records, 18

Literature Records, 18

Documentation, 19

Taxonomy and Nomenclature, 19

20 RESULTS AND DISCUSSION

Plant Communities, 20

Forests, Oak Woodland, 20

Prairies, 22

Glades, 22

Sandy Meadows, 22

Wetlands, 23

Ruderal Areas, 27

Floristics and Phytogeography, 29

Comparison of the Baraboo Hills, the Western Upland, and the Central Plain, 30

Rare Native Plants, 34

Endangered, 34

Threatened, 35

Special Concern, 37

Local Extinction (Including Species of Ecological Concern), 38

39 THE FLORA

Analysis of the Flora, 41

Annotated Checklist, 42

Format and Abbreviations, 42

Total Number of Species, 142

Excluded Species, 143

146 LITERATURE CITED

154 INDEX

LIST OF TABLES

| Table 1. | Scientific names of vascular plants (after Kartesz 1994) for species mentioned in the text under their common names. | 13 |
|------------|--|----|
| Table 2. | Native vascular plants in the study area confined to the immediate corridor of the Wisconsin River, including the lower Baraboo River and lower Honey Creek. | 31 |
| Table 3. | Native vascular plants in the study area found only in Devil's Lake and the Wisconsin River and/or along their shores. | 31 |
| Table 4. | Summary of native vascular plants by landform/province. | 31 |
| Table 5. | Native vascular plants in the study area restricted to the Baraboo Hills. | 32 |
| Table 6. | Native vascular plants in the study area restricted to the Western Upland. | 32 |
| Table 7. | Native vascular plants in the study area restricted to the Central Plain. | 33 |
| Table 8. | Native vascular plants in the Baraboo Hills known only from the limey foothills at the western end of the South Range or Honey Creek Valley. | 33 |
| Table 9. | Native vascular plants in the study area listed by the Wisconsin Department of Natural Resources as Endangered, Threatened, or Special Concern. | 34 |
| Table 10. | Summary of vascular plants by family. | 40 |
| Table 11. | Vascular plants classified by abundance code. | 41 |
| Table 12. | Genera with more than 10 species of vascular plants in the study area. | 41 |
| Table 13. | Native vascular plants in the study area found only in Caledonia Township, Columbia County. | 41 |
| LIST C | OF FIGURES | |
| Figure 1. | Location of Sauk County and Caledonia Township, Columbia County, in relation to the Western Upland and Central Plain geographical provinces as described by Martin (1965). | g |
| Figure 2. | The study area outlined on a relief map of Wisconsin. | |
| Figure 3. | Wisconsin River in Troy Township, with sandbars and flats. | |
| Figure 4. | Aerial view, looking west, of mountainous Devil's Lake in the Baraboo Hills. | |
| Figure 5. | Landforms and geographical provinces of the study area. | |
| Figure 6. | Townships of the study area and place names mentioned in this report. | |
| Figure 7. | Snow line in the Baraboo Hills in Sumpter Township. | |
| Figure 8. | Milwaukee Public Museum label for a sedge collected at Devil's Lake by Thure Kumlien in 1860. | |
| Figure 9. | Lellen Sterling Cheney and Rodney Howard True at Devil's Lake. | 16 |
| Figure 10. | John Jefferson Davis, Curator of the University of Wisconsin Herbarium, 1911-1937. | 16 |
| Figure 11. | Huron H. Smith on his motorcycle near Mauston, Juneau County, in 1922. | 17 |
| Figure 12. | Norman Carter Fassett, Curator of the University of Wisconsin Herbarium, 1937-1954 | 17 |
| Figure 13. | Oak forest between the east and south bluffs, east of the railroad track, Devil's Lake State Park. | 20 |
| Figure 14. | | |
| | Oak forest on the west bluff, Devil's Lake State Park. | 20 |

| Figure 16. | Jack Pine-oak woods in the northwestern corner of the Baraboo Hills. | 21 |
|------------|---|------------|
| Figure 17. | Low sandy woods, Delton Township. | 21 |
| Figure 18. | Dry sand prairie, northwestern corner of the Baraboo Hills. | 21 |
| Figure 19. | Dry prairie on limey sandstone, west end of the South Range of the Baraboo Hills. | 22 |
| Figure 20. | Cady's Marsh. | 22 |
| Figure 21. | "Wisconsin Desert." | 22 |
| Figure 22. | Quartzite glade on top of the south end of the east bluff, Devil's Lake State Park. | 23 |
| Figure 23. | Rhyolite glade in the North Range of the Baraboo Hills. | 23 |
| Figure 24. | Sandy meadow in Delton Township. | 23 |
| Figure 25. | Sandy meadow in Dellona Township being overgrown with White Pine, Red Maple, and Quaking Aspen. | 24 |
| Figure 26. | Silver Maple-American Elm swamp along the Wisconsin River in Fairfield Township. | 24 |
| Figure 27. | Tamarack swamp along Dell Creek in Dellona Township. | 24 |
| Figure 28. | Alder swamp along Dell Creek in Dellona Township. | 25 |
| Figure 29. | Sedge meadow, mainly Saw-grass, in Fairfield Township. | 25 |
| Figure 30. | Sedge meadow, mainly Wire-grass, in Delton Township. | 25 |
| Figure 31. | Marsh along the Wisconsin River in Troy Township. | 26 |
| Figure 32. | Southwest corner of Devil's Lake and Messenger Creek in 1974, a low water year. | 26 |
| Figure 33. | Glacial kettle in Devil's Lake State Park on the former Johnson farm. | 26 |
| Figure 34. | Otter Creek in Baxter's Hollow in the Baraboo Hills. | 27 |
| Figure 35. | Railroad track and embankment in Baraboo. | |
| Figure 36. | Conifer plantation in Prairie du Sac Township. | 27 |
| Figure 37. | Dutchman's-breeches on the Devil's Lake State Park bluffs. | 2 8 |
| Figure 38. | Common Wood-sorrel, with Canada Mayflower, LaValle Township. | 28 |
| Figure 39. | Pansy Violet in Devil's Lake State Park. | 28 |
| Figure 40. | Meadow-beauty, Cape May County, New Jersey. | 29 |
| Figure 41. | Seven people in a garden patch of Mullein in the Sauk City area in the early 1900s. | 30 |
| Figure 42. | Northern Monkshood in Parfrey's Glen. | 31 |
| Figure 43. | Purple Milkweed in Devil's Lake State Park. | 35 |
| Figure 44. | Several acre patch of prairie sod on the terminal moraine of the Wisconsin Glacier in the Badger Army Ammunition Plant, a station for both the Bush-clover Lespedeza leptostachya and Woolly Milkweed. | 35 |
| Figure 45. | Moschatel in LaValle Township. | 36 |
| Figure 46. | Drooping Sedge, with Spotted Touch-me-not, Devil's Lake State Park. | 36 |
| Figure 47. | Oak woods at the north end of the east bluff, Devil's Lake State Park, a locality for the Bush-clover <i>Lespedeza virginica</i> . | 36 |
| Figure 48. | Tubercled Orchid, Devil's Lake State Park. | 37 |
| Figure 49. | Tubercled Orchid, Devil's Lake State Park. | 37 |
| Figure 50. | Ginseng in fruit, Devil's Lake State Park. | 37 |
| Figure 51. | Wonewoc High School botany class, 4 May 1900, gathering wildflowers (Trailing Arbutus?). | 38 |

Figure 1.
Location of Sauk County
and Caledonia Township,
Columbia County, in
relation to the Western
Upland and Central Plain
geographical provinces as
described by Martin
(1965), with latitude and
longitude. The Baraboo
Hills are included within
the Western Upland in
this depiction.¹

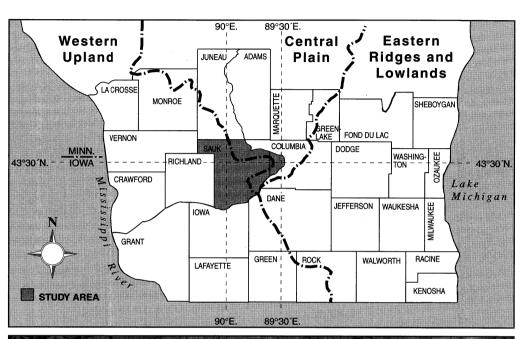
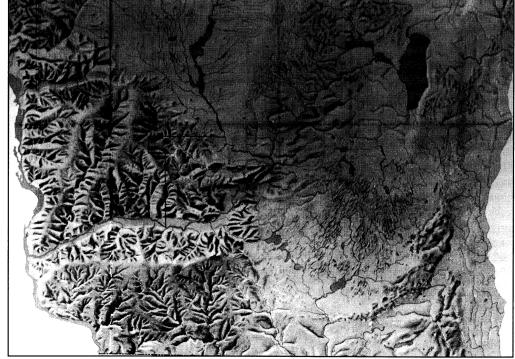


Figure 2.
The study area outlined on a relief map of Wisconsin.
Notice the lower ground (the Central Plain) along the Wisconsin River, the higher ground (the Western Upland), and the arrowhead-shaped landform in the east central part of the study area (the Baraboo Hills). Map from the Wisconsin Geological and Natural History Survey.



¹ In this technical bulletin we use natural divisions as defined by Martin (1965). These divisions are familiar to most Wisconsin natural resources managers. The Wisconsin Department of Natural Resources (DNR) has recently signed the Forest Accord, which is an agreement to use new ecoregions developed by the U.S. Forest Service. Further, the DNR is now basing its planning and management efforts within newly defined Geographic Management Units.

INTRODUCTION

A growing interest in biodiversity (Wisconsin Department of Natural Resources 1995) and in the Baraboo Hills and adjoining lands, typified by the Baraboo Hills Bioreserve of The Nature Conservancy, has prompted the publication of this flora. It includes all species of vascular plants authentically known from the study area, not only the natives but also the "weeds" and those established as escapes from cultivation.² The flora totals 1,328 species: 1,087 native species and 241 non-native species, which equals 60% of the entire flora of Wisconsin (approximately 2,200 species). Among the 1,328 species are 71 species on the Wisconsin Rare Vascular Plant Working List: 7 endangered species, 17 threatened species, and 47 species of special concern (Alverson and Iltis [1979]; Wisconsin Department of Natural Resources 1993a, with additions), which equals approximately 7% of the native flora of the study area. One species, Wing-stem (Verbesina alternifolia), is herein reported from Wisconsin for the first time. The flora includes the vascular plants of the Baraboo Hills (1,099 species); the vascular plants of Devil's Lake State Park (914 species); those Devil's Lake State Park species known only from Devil's Lake, including its shoreline (51 species); the vascular plants of the Western Upland (972 species); the vascular plants of the Central Plain (1,086 species); the vascular plants in the study area confined to the Wisconsin River and bottomlands (75 species); and the vascular plants known only from Caledonia Township (5 species). The boundaries of the study area—Sauk County and Caledonia Township, Columbia County—are the same as in my postglacial vegetational history (Lange 1990).

The Baraboo Range³ is a major landform in the study area. This Precambrian monadnock of approximately 124,000 acres has been visited by researchers and educators since the 1840s and is of increasing interest to biologists. Recent studies have begun to demonstrate its rich breeding bird communities (Mossman and Lange 1982) and the diverse communities of aquatic insects in its relatively pristine streams (Lillie and Isenring 1996). As an island of relatively unfragmented deciduous forest in a sea of woodlots and agricultural land, the Baraboo Hills may be a net exporter of surplus animal populations (and plant propagules) to outlying areas. The presence in the Hills of approximately half of all the vascular plants in Wisconsin, as documented in this report, is another indicator of the natural richness of the Hills and yet another scientific reason for protecting as much of this landform as possible. See Tans and Lange (1976) for a natural sites inventory of Sauk County.

A number of county and regional floras for Wisconsin have been published, e.g., Russel (1907), Wadmond (1909), Heddle (1924), Smith (1931), Potzger (1943), Seymour (1960), Nee (1970), Musselman et al. (1971), Nee and Hansen (1973), Judziewicz (1981), Rill (1983), Judziewicz and Koch (1993), and Eddy (1996), but none have covered the study area, nor has any Wisconsin flora, to my knowledge, compared the plants of landforms and geographical provinces, which is the thrust of this report.

Botanists, field ecologists, and restoration biologists should find this report useful. An index for the annotated checklist has been included to make the basic information on the plants of the study area more accessible to the nonprofessional, e.g., the amateur botanist.

STUDY AREA

The study area, Sauk County and Caledonia Township, Columbia County, is shown in Figures 1 and 2 in its southern Wisconsin setting, bordered by Juneau, Vernon, and Richland counties on the north and west and by the Wisconsin River on the south and east. Its size is approximately 580,000 acres: Sauk County totals 537,000 acres (217,321 ha) and Caledonia Township, Columbia County, totals 43,000 acres (17,402 ha). In terms of square miles and square kilometers, Sauk County totals 838 square

miles (2,171 square km) and Caledonia Township totals approximately 67 square miles (174 square km). Caledonia Township was included in order to cover the entire Baraboo Range.

The study area includes a number of state-owned public lands: Devil's Lake, Natural Bridge, Mirror Lake, and Rocky Arbor state parks, part of the Dells of the Wisconsin River State Natural Area, part of the Lower Wisconsin State Riverway, the Bakkens Pond Unit of the

² The following are not included: prairie species planted for restoration projects, landscaping, and along roads, and other species planted for other projects.

³ The Baraboo Range is also called the Baraboo Hills or Baraboo Bluffs; these three names are herein used interchangeably.

Figure 3. Wisconsin River in Troy Township, with sandbars and flats, 1974.

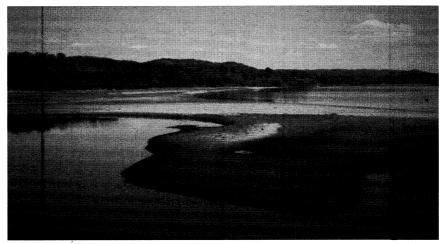
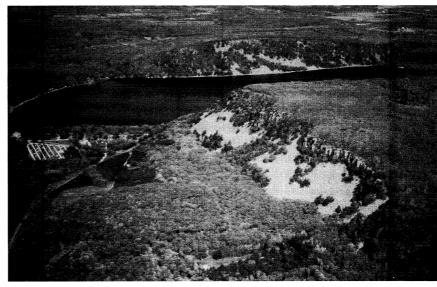


Figure 4.

Aerial view, looking west, of mountainous
Devil's Lake in the Baraboo Hills, 1969.
The lake is bordered by three 500-ft bluffs:
the west bluff (in the distance, center), the
east bluff (closer and to the right), and the
south bluff (far left). North shore of the
lake at upper right, south shore at middle
left.



Lower Wisconsin River Wildlife Area, Pine Island Wildlife Area, Dell Creek Public Hunting and Fishing Grounds, Hulburt Creek Fishery Area, McGilvra's Woods near Baraboo, and Cady's Marsh near Reedsburg. Several county parks, such as White Mound near Plain, are also within the area. Privately owned sites of special ecological significance include Durward's Glen, Baxter's Hollow and Klondike, Pine Hollow near Denzer, Hemlock Draw and Honey Creek Valley near Leland, the International Crane Foundation, the Aldo Leopold Memorial Reserve, Lodde's Mill Bluff and Ferry Bluff, and the "Wisconsin Desert" near Spring Green. One of the public lands, Devil's Lake State Park (see Lange 1989), is treated separately in this report.

The major rivers are the Wisconsin (Figure 3) and its main tributary, the Baraboo.

The Baraboo Range is the most prominent topographical feature of the study area. This elliptical outcrop of quartzite, consisting of a North Range and a South Range, extends between the village of Rock Springs in the west and Cascade Mountain in Caledonia Township in the east, a linear distance of 25 miles; the enclosed

Baraboo Valley has a width of 1 to 4 miles. Greatest relief is attained at Devil's Lake, where 3 bluffs with associated talus slopes rise 500 ft above the 369-acre lake, which is the main attraction of 11,000-acre Devil's Lake State Park (Figure 4). It should be pointed out that not all of Devil's Lake State Park is in the Baraboo Hills; part of it—the meadow between the east and south bluffs—is in the Central Plain. This meadow is actually the upper end of an extensive lowland that drains southward into Gallus' Slough and the Wisconsin River, west of Merrimac.

The Baraboo Hills are bordered at their eastern end by the Wisconsin River bottomlands of the Central Plain and at their western end by the hills of the Western Upland (Figure 5). The Central Plain and the Western Upland are 2 of the 5 geographical provinces of Wisconsin (Martin 1965). The Western Upland, as its name implies, is a highland region. Mainly it is well dissected, with the greatest relief being in the valleys of the Mississippi and Wisconsin rivers and their tributaries. Sandstones are present, but dolomites and sandy dolomites predominate. In contrast, the Central Plain is mainly flat due to alluvial filling; a rolling or hilly topography occurs

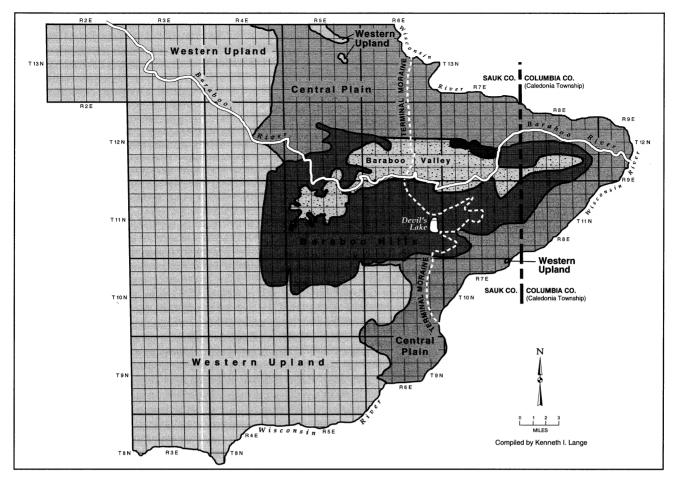


Figure 5. Landforms and geographical provinces of the study area. For orientation, notice Devil's Lake in T11N, R6E. The Baraboo Hills, Western Upland, and Central Plain are all outlined. The westernmost extent of the Wisconsin Glacier is indicated by a white dashed line running north-south. The Wisconsin River borders the study area on the east and south; its main tributary, the Baraboo River, is indicated by a white line running west-east.

where there has been less alluvial filling. Nearly all of this province is underlain by Cambrian sandstone.

Martin (1965) mapped the geographical provinces of Wisconsin (Figure 1) by tracing contacts between rock types, insofar as possible. The geographical provinces of Wisconsin have never been mapped in detail; this would be a formidable task, for example when dealing with a dissected landscape of ridges and valleys, such as the Western Upland. Determining the contact between the Western Upland and the Central Plain is further compounded by possible extensions of the Central Plain along the drainageways. The boundaries of the Western Upland and the Central Plain in Figure 5 are therefore approximations. For this report, the Western Upland and the Central Plain are delineated as follows: in northern Sauk County, from north to south, by Dell Creek (and its tributaries), Copper Creek, and Cady's Marsh in T12N, R4E, Sections 13 and 14; and in southern Sauk County,

from north to south, by the Otter Creek bluffs along Otter Creek (west of U.S. 12 in Sumpter Township), the historic boundary of the Sauk Prairie (Lange 1990:12-13),⁴ and the mouth of Honey Creek in T9N, R6E, Section 20, where Ferry Bluff and other Western Upland landmarks along the Wisconsin River are located (see Figure 6).

The following prominences are regarded as outliers (areas or groups of rocks surrounded by older rocks; Bates and Jackson 1984:362) of the Western Upland within the Central Plain: Badlands, Rattlesnake Knob, Haystack Hills, and Christmas Mountain (Coon Bluff) in Dellona Township, and Owl's Head in Merrimac Township (Clayton and Attig 1990; Figure 6). Some hilly areas with sandstone outcrops in the Central Plain, for example the cliffs along the Wisconsin River at Wisconsin Dells and in Rocky Arbor State Park, are not herein regarded as outliers of the Western Upland and hence are treated for floristic purposes as belonging to the Central Plain.

⁴ For the reader's convenience, page numbers are included in textual references for material that might otherwise be difficult to find.

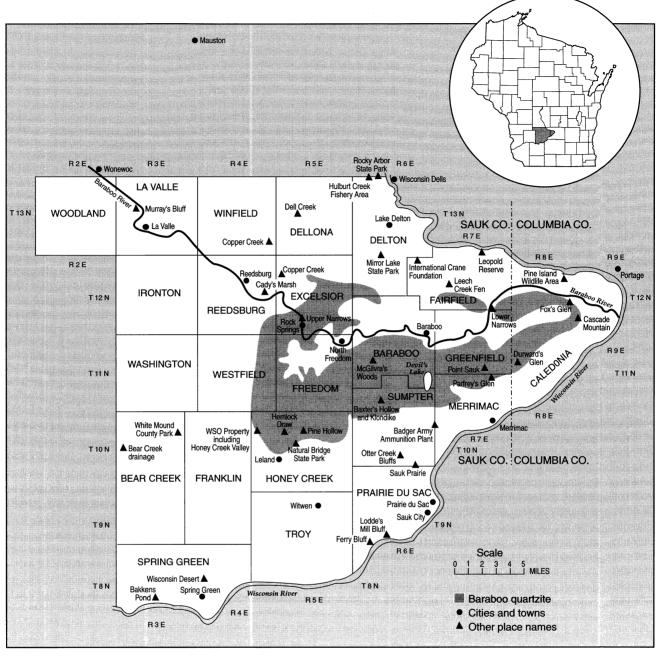


Figure 6. Townships of the study area and place names mentioned in this report.

In differentiating the Baraboo Hills and the Western Upland, should one use the quartzite or the foothills of more recent age, and, if the latter, just where should the break be? The quartzite and associated conglomerate ("Parfrey's Glen Formation," Clayton and Attig 1990; "Undifferentiated quartzite conglomerate and conglomeratic sandstone facies deposited near ancient quartzite islands," Dott 1970) are utilized by geologists to delineate the Baraboo Hills and normally would be used here. However, previous studies (notably Mossman and Lange 1982, Lange 1990) have employed a broader boundary for the Hills in the southwestern corner so as to correspond with preservation efforts by the Wisconsin Society for

Ornithology (WSO) and The Nature Conservancy, and this approach is essentially used here. The Cambrian-Ordovician sandstone and dolomite hills that *adjoin* the Baraboo Range and associated conglomerate in the southwestern corner of the Range are thus treated as part of the Baraboo Hills. Also included within the Baraboo Range is Honey Creek Valley, from Weidman Falls in T11N, R4E, Section 35, where quartzite is exposed, south to and including the WSO Alder-Black Ash swamp in T10N, R4E, Section 11. Actually the swamp (= WSO Honey Creek bog) and associated wetlands may be closer botanically to the Wisconsin River bottoms and the Central Plain, as suggested by the presence of such

Table 1. Scientific names of vascular plants (after Kartesz 1994) for species mentioned in the text under their common names.

| Common Name | Scientific Name | Common Name | Scientific Name |
|------------------------|-------------------------------------|----------------------|--------------------------|
| Alder | | Mountain Maple | Acer spicatum |
| Alfalfa | Medicago sativa | Mullein | Verbascum thapsus |
| American Elm | Ulmus americana | | Aconitum noveboracense |
| Asiatic Honeysuckle | . Lonicera tatarica | Oak(s) | |
| Basswood | | Old-field Cinquefoil | Potentilla simplex |
| Beaked Hazel | | Pansy Violet | Viola pedata |
| Big Bluestem | Andropogon gerardii | Pitcher-plant | Sarracenia purpurea |
| Big-leaved Aster | Aster macrophyllus | Pondweeds | Potamogeton spp. |
| Bird's-foot Trefoil | . Lotus corniculatus | Purple Loosestrife | |
| Black Ash | | Purple Milkweed | Asclepias purpurascens |
| Black Oak | Quercus velutina | Quaking Aspen | Populus tremuloides |
| Bloodroot | | Red Cedar | Juniperus virginiana |
| Bluegrass | . Poa compressa and/or P. pratensis | Red Elder | Sambucus racemosa |
| Bluejoint | Calamagrostis canadensis | Red Maple | |
| | . Maianthemum canadense | Red Oak | . Quercus rubra |
| Cat-tail(s) | | Reed Canary Grass | . Phalaris arundinacea |
| Cinnamon Fern | Ösmunda cinnamomea | Rock Clubmoss | |
| Cliff Cudweed | | Rue-anemone | Thalictrum thalictroides |
| Cliff Goldenrod | | Saw-grass | Carex lacustris |
| Colic-root | | Shaggybark Hickory | |
| Common Buckthorn | Rhamnus cathartica | Shining Clubmoss | |
| Common Wood-sorrel | Oxalis montana | Silky Aster | |
| Creamy Baptisia | | Silver Maple | Acer saccharinum |
| Crown-vetch | | Skunk-cabbage | Symplocarpus foetidus |
| Dame's Rocket | Hesperis matronalis | Sphagnum Moss | Sphagnum spp. |
| Drooping Sedge | | Spotted Touch-me-not | Impatiens capensis |
| Dutchman's-breeches | Dicentra cucullaria | Starry Campion | Silene stellata |
| False Pennyroyal | | Sugar Maple | Acer saccharum |
| Fameflower | | Sullivantia | Sullivantia sullivantii |
| Fragrant Fern | | Summer Phlox | |
| Garlic Mustard | | Tamarack | |
| Gay Feather | | Toothwort | |
| Ginseng | Panax quinquefolius | Trailing Arbutus | |
| Gray Dogwood | . Cornus racemosa | Trembling Aspen | Populus tremuloides |
| Hawthorns | . Crataegus spp. | Tubercled Orchid | Platanthera flava |
| Hemlock | | Water-pennywort | Hudrocotule americana |
| Hickories | Carya spp. | White Birch | Betula papyrifera |
| Hill's Oak | Quercus ellipsoidalis | White Gentian | Gentiana alba |
| Hill's Thistle | | White Lady's-slipper | Cypripedium candidum |
| Interrupted Fern | | White Oak | |
| Jack Pine | | White Pine | |
| Kalm's St. John's-wort | | Willow | |
| Lady's-slippers | | Wire-grass | |
| Leather-leaf | . Chamaedaphne calyculata | Woolly Milkweed | Asclevias lanuginosa |
| Little Bluestem | . Schizachyrium scoparium | Yellow Birch | |
| May-apple | . Podovhyllum veltatum | Yellow-eyed-grass | . Xvris torta |
| Meadow-beauty | Rhexia virginica | Yellow Giant-hyssop | Agastache nepetoides |
| | | | |

species as Carex emoryi, Poa paludigena, and Liparis loeselii.

In the northwestern corner of the Baraboo Hills, should the glacial lake sediments and associated deposits be considered part of the Hills or the Central Plain? The sand deposits in Section 21 in this area have been interpreted as Central Plain, because of the presence of such characteristic plants of the Central Plain as Colic-root and Kalm's St. John's-wort (Table 1).

The soils are primarily silt loams and secondarily loams, clay loams, sand loams, and sands; wet alluvial soils occur along the lower Wisconsin River. The silt loams of the Baraboo Range developed in 20 to 40 inches of loess over quartzite bedrock (Hole 1976:59, 66, 131).

The terminal moraine of the Wisconsin Glacier winds through Sauk County (Figure 5); the eastern third of the study area, including the eastern part of the Baraboo Range, was glaciated, whereas the remainder of the study area was unglaciated. Some glacial sediment was carried beyond the terminal moraine and deposited at varying distances from the wasting ice by glacial meltwater, often forming extensive flats (outwash plains) and outwash terraces. Outwash plains formed just southwest of Baraboo and also just south of the Baraboo Range where the Badger Army Ammunition Plant is presently located. Outwash terraces occur in the Wisconsin River valley in a number of places (Gundlach 1980:2-3).

The climate is characterized by extremes of temperature and precipitation in any season. The average date of the last 32°F freeze in spring is 10 May, and the first in fall is 28 September. The growing season, i.e., the number of days between these dates, averages 142 days (Gundlach 1980:1), but there is considerable variation. Certain landforms, especially the Baraboo Hills, influence precipitation and temperature. For example, when conditions are marginal, rain just outside the Hills often changes to snow as it reaches the Bluffs (Figure 7).

Vegetational changes since the melting of the last glacier have been documented (Lange 1990). In early settlement years (the 1840s), the percentage of land cover in woods and forests was about the same as today, but wetlands (20%) and prairies (6%) were more extensive; the dominant community was oak savanna, now virtually absent, and humans were just beginning to alter the land. For Sauk County today, the estimated percentages for land cover are as follows: woods and forests—37%, wetlands—1%, agricultural land—53%, and urban and industrial land—9% (Lange 1990:19).

HISTORY OF BOTANICAL INVESTIGATIONS IN THE STUDY AREA

The first botanist to visit Wisconsin, and the study area, was English-born Thomas Nuttall in 1810 (Lapham 1853:375). Nuttall was a naturalist who investigated the Northwest for Benjamin Smith Barton.⁵ Starting from Philadelphia by coach, then on foot, Nuttall soon realized that travel in this region was best by water. On his route to St. Louis he crossed Lake Michigan, then proceeded up the Fox River to the Fox-Wisconsin portage and down the Wisconsin River to the Mississippi (Graustein 1951:68-70, 1967:52-54). The party likely made at least a few landings along the Wisconsin River, when Nuttall would have hurried ashore and gathered specimens, undoubtedly to the amusement and disbelief of the voyageurs. For such endeavors he received a salary of 8 dollars a month and all expenses.

Wisconsin's pioneering naturalist, Increase Allen Lapham (1811-1875; cover photo), apparently was the first botanist to explore Devil's Lake, doing so in 1849 with several companions (Lapham 1849). The year after he died, Lapham's extensive scientific collections, including a herbarium of 24,000 specimens representing approximately 8,000 species, was purchased for \$10,000 by the state for the University of Wisconsin (Lange 1984:118-19). Lapham's plant collection apparently was the beginning of today's University of Wisconsin-Madison Herbarium, as the other university botanical collections of the time presumably were consumed by the 1884 Science Hall fire; the exact details are uncertain (Iltis et al. 1986). Lapham's specimens at the University of Wisconsin-Madison Herbarium include the following: False Pennyroyal, collected at the Upper Narrows of the Baraboo Hills in 1865, and a number of species collected at "Kilbourn" (= Wisconsin Dells, no county indicated), in 1858, 1861, 1867, 1869, and 1872 (Lange 1981b). Labelling in those years was imprecise: "Kilbourn" or "Kilbourn City" might have encompassed

a large area. Kilbourn was so designated because it was the nearest railroad station.

Thomas J. Hale (1858, 1860) was a student at the University of Wisconsin and a collaborator of Lapham. From 1860 to 1862 he worked for the State Geological and Agricultural Survey as an assistant to James Hall, a geologist. His assignment was three-fold: to collect plants and fossils and to map certain sandstones (Musselman 1969). The University of Wisconsin-Madison Herbarium has a number of specimens collected by Hale in the study area: at least 10 species from "Kilbourn," at least 4 species from "Baraboo," and several species from "Sauk City" and "Sauk County." He was familiar enough with the Sauk Prairie to be credited with the statement: "Not less than 800 species" (Hale 1861). A mystery surrounds Hale's subsequent activities, as he abruptly left the state in 1862 and was not heard of again until 1876, when he was referred to as the lamented T.J. Hale (Lange 1981b:41).

One of the first foreign visitors in the study area was Frederick George Jacob Lueders (1813-1904), who explored North America for the Society of Natural Science of his native city of Hamburg, Germany (Lueders 1861, 1880; Runge 1932). With letters of introduction from Asa Gray, the eminent botanist at Harvard University, Lueders arrived in July 1841 in Sauk City, a German settlement, and the obvious entry into Sauk County (Lange 1976:119). Lueders spent the next several months "collecting several hundred species" of plants in the Sauk Prairie area. The next spring he left for Missouri and then Oregon, collecting whenever he could, but the loss of virtually all his baggage in the Columbia River from an overturned boat led him to return to Germany in 1844. He hoped to start again, "after having gained some useful experience," but it was not to be. The financial situation in his family had changed, so that he now needed

⁵ Benjamin Smith Barton (1766-1815) was a professor of Materia Medica at the University of Pennsylvania; his *Elements of Botany* (1803) was the first botany textbook in this country. He employed Nuttall (and Frederick Pursh) to collect plants for him; Barton himself was frail and unable to travel much (Evans 1993:43-44).



Figure 7.

Snow line in the Baraboo Hills in Sumpter Township, looking north from Groth Road towards U.S. 12, 6 April 1985.

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Figure 8.
Milwaukee Public Museum label for a sedge collected at Devil's Lake by Thure Kumlien in 1860.

a more reliable source of income. Lueders returned to America with his young bride to become a gardener and florist, eventually settling in Sauk City in 1851.

Personal correspondence with the University of Hamburg Herbarium (Herbarium Hamburgense) revealed that the University of Hamburg received F.G.J. Lueders' specimens from J.C. Lueders, a brother, shortly before the collector's death. However, the exact whereabouts of these specimens from "Wisconsin" and "Missouri" is now uncertain, as much of the Hamburg Herbarium was "displaced to middle Germany in World War II and was brought to Russia" (Professor K. Walther to K.I. Lange, in letter, 23 February 1973).

F.G.J. and Margaretta Lueders had 4 children, 2 daughters and 2 sons. The youngest child, Herman Frederick (1861-1904), became a teacher and gardener. His special interest was botany, and when still a child he purchased a copy of Gray's Manual of Botany. During the warmer months he botanized whenever time permitted, and on Sundays he took longer excursions along the Wisconsin River. His herbarium eventually numbered "4,000 native species" (4,000 sheets?; Lueders 1907). His vegetation of Prairie du Sac Township (Lueders 1895) lists approximately 700 species of vascular plants.

Unfortunately I have been able to locate only one of his specimens, a sheet of *Quercus* at the University of Wisconsin-Madison Herbarium, which was collected at Sauk City in 1884. It was brought to the University of Wisconsin-Madison Herbarium by Hugh H. Iltis from the Missouri Botanical Garden, where apparently it was being discarded. The sheet is labelled "Ex. Herb. William Trelease." Trelease (1857-1945) taught in the University of Wisconsin Botany Department from 1881 to 1885, and Lueders was a student at the University from 1884 to 1887. Trelease left Wisconsin in 1885 for Washington University in St. Louis, where from 1889 to 1912 he was Director of the Missouri Botanical Garden (information about Trelease from the University of Wisconsin Archives). Perhaps he took at least some of Lueders' specimens with him to St. Louis, but there is no record of this (Marshall R. Crosby, Missouri Botanical Garden, to K.I. Lange, in letter 20 February 1981).

Another exceptional naturalist, Swedish-born Thure Ludwig Theodore Kumlien (1819-1888), was the first person to actually collect plants at Devil's Lake, insofar as extant herbarium specimens attest. The Milwaukee Public Museum has Kumlien specimens collected at Devil's Lake in 1860 (Figure 8), and he very likely was here at other times also (Lange 1984:119). In an unfinished letter (Kumlien 1859), he expressed the desire to travel extensively, but remarked that he hadn't the means and could "hardly leave home for a day."

Figure 9. Lellen Sterling Cheney (left) and Rodney Howard True (right) at Devil's Lake, with part of a plant press between them.

Figure 10. *John Jefferson Davis, curator of the University of Wisconsin Herbarium,* 1911-1937.



Arlow Burdette Stout (1876-1957) was born in Ohio and grew up on a farm near the Kumliens, where he attended a one-room country school and spent countless hours afield. In 1903 he rescued a number of Kumlien specimens, including a Devil's Lake sedge, Carex leptalea, which had been left in the garret of the original Kumlien homestead, a log cabin. These undated specimens, apparently 37 in all, are now at the University of Wisconsin-Madison Herbarium. Stout graduated from State Normal School at Whitewater, then taught science at Baraboo High School from 1903 to 1907, spending weekends and parts of his vacations in field work, mainly in the Baraboo area (Lange 1984:120). The University of Wisconsin and the Milwaukee Public Museum have specimens collected by Stout in Baraboo, Devil's Lake (mostly pondweeds), Greenfield Township, Fairfield Township, the Lower Narrows, and the Lake Delton area.

A number of other collectors appeared on the scene around the turn of the century, including C.H. Sylvester and William Finger, whose herbaria are at the Milwaukee Public Museum; Will Sayer Moffatt, a medical doctor; and Levi M. Umbach (1853-1918), a science instructor at North-Western College (now North Central College) in Naperville, Illinois. H.S. Pepoon's Flora of the Chicago Region is dedicated to Umbach, "best of friends and most enthusiastic of plant collectors." Umbach visited Devil's Lake every year from 1895 through 1900, and among his Devil's Lake specimens are the first collections of an uncommon Gerardia (Agalinis gattingeri), now on Wisconsin's threatened list. The Umbach Herbarium of some 45,000 plants was purchased by the University of Wisconsin in 1927 (Lange 1984:122).

Two University of Wisconsin faculty members, Lellen Sterling Cheney (1858-1938) and Rodney Howard True (1866-1940), did field work in the study area from before the turn of the century onward. They collaborated on a

flora of the Madison area (Cheney and True 1892) and often took field trips together, e.g., to Wisconsin Dells and Devil's Lake (Figure 9). Cheney was a pioneer of systematic botany in Wisconsin (Cheney 1899, 1900-1901) and in charge of the university herbarium from 1891 to 1903. He initiated botanical surveys of the Lake Superior shore and the Upper Wisconsin River valley via boat in a Wisconsin more primeval than any of us can ever know. Mosses were his main interest; in fact, he was preparing a catalogue of Wisconsin mosses at the time of his death, but he also added many vascular plants to the university herbarium. His vascular plant collections include specimens from Devil's Lake, Durward's Glen, Sauk City, Honey Creek, and Delton Township, dated from 1891 to 1900. True was from Baraboo, a son of John M. True who at one time was a state senator (Lange 1984:122). His specimens, collected in the study area in the 1880s and 1890s, include approximately a dozen species now rare or extirpated, e.g., Pitcher-plant and White Lady's-slipper, and at least one new state record, the Bush-clover Lespedeza virginica from Devil's Lake. True collected extensively in the Baraboo-Devil's Lake area and also in North Freedom, Greenfield Township, Fairfield Township, Delton Township, Mirror Lake, and Merrimac.

Edward Kremers (1865-1941) and Rollin Henry Denniston (1874-1957)—also University of Wisconsin faculty members—collected plants in the study area, mainly at Devil's Lake, in the early 1900s. So too did John Ronald Heddle (1887-?), a Nebraskan and University of Wisconsin student.

In 1911, the year that Devil's Lake State Park was established, a retired medical doctor, John Jefferson Davis (1852-1937; Figure 10), embarked on a new career—curator of the University of Wisconsin Herbarium, a position he would hold until his death. His first botanical interest

Figure 11. Huron H. Smith on his motorcycle near Mauston, Juneau County, in 1922.

Figure 12. Norman Carter Fassett, curator of the University of Wisconsin Herbarium, 1937-1954.





was in collecting and naming seed plants he observed on his medical travels in the country, but his training as a physician sparked his curiosity about diseases and the fungi producing the diseases. Davis brought his plant collection with him to Madison and supervised the herbarium's growth for the next quarter-century, during which time he became an acknowledged authority on parasitic fungi (Lange 1984:123). His vascular plant collections include specimens from the Portage area, Wisconsin Dells, Reedsburg, LaValle, Baraboo and Devil's Lake, Prairie du Sac, Ferry Bluff, and Spring Green, dated from 1911 to 1936.

Huron H. Smith (1883-1933) and his assistant, Tenus Tuttrup, toured southwestern Wisconsin for 2 months in 1922 in a motorcycle with a side car (Figure 11), collecting plants in a number of counties for the Milwaukee Public Museum. Their collecting gear included the standard equipment of today, e.g., plant presses, but also "a few reams of tea papers, our lanterns to furnish the drying heat, and canvas petticoats to swathe the drying presses and confine the heat to where it would do the most good..." (Smith 1922:113). It was a unique expedition. If the engine broke loose, they would "re-cinch it," and "as for scenery, we were not even bothered with a windshield. Of course, now and again we inhaled a little dust, but we didn't know anybody and nobody could have recognized us, so we didn't care" (Smith 1922:114). Their collecting localities included the Ferry Bluff area ("a goodly lot of specimens, 300 sheets on one day"), Prairie du Sac, and the Baraboo Hills near Baxter's Hollow ("We cannot claim to have explored the Baraboo Bluffs well, though we spent three days upon them").

Two other Milwaukee Public Museum botanists of this era, Albert M. Fuller (1899-1981) and Emil P. Kruschke (1907-1976), looked for plants at Devil's Lake

State Park, Fuller for orchids and Kruschke for hawthorns (Lange 1984:123-24). In 1930 Fuller collected plants, e.g., Fameflower, at Spring Green.

Arthur Bliss Seymour (1859-1933) collected at Sauk City, Ferry Bluff, and Devil's Lake in 1929, and 20 years later a son, Frank Conkling Seymour (1896-1985), collected at Pine Hollow near Denzer and the Lower Narrows in the Baraboo Hills, and the Wisconsin River bottoms in Caledonia Township. In yet another 20 years the first edition of F.C. Seymour's *The Flora of New England* would be published.

Henry P. Hansen (1907-1989), a palynologist (Heusser 1990), collected throughout the study area from 1930 to 1934 for his bog studies. His specimens are at the University of Wisconsin-Madison Herbarium and the Milwaukee Public Museum.

Two eastern botanists, Edgar T. Wherry (1885-1982) and Arthur N. Leeds (1870-1939), collected in the study area in 1935 for the Academy of Natural Sciences of Philadelphia. Their localities included Delton Township and Parfrey's Glen. Wherry was a renowned researcher and author (Wagner, Jr. 1982; Fogg, Jr. 1983), and Leeds (Pennell 1939, Wherry 1939) was a businessman who in his later years became particularly interested in ferns.

Norman Carter Fassett (1900-1954; Figure 12), followed Davis as Curator of the University of Wisconsin Herbarium. He came to Wisconsin in 1925 as an instructor in botany, after receiving his Ph.D. under Merritt Lyndon Fernald at Harvard University, and became a leader in taxonomic thought in North America and a major figure in the conservation movement in Wisconsin. He collected at some dozen places in the study area. His specimens include a dry woods sedge (*Carex albicans*), collected in 1926 and 1927 at Devil's Lake State Park, still the only known Wisconsin locality for this species.

Fassett personally added approximately 28,000 specimens to the university herbarium (Lange 1984:124-25).

In the summer of 1946 and under Fassett's guidance, James H. Zimmerman (1924-1992) conducted a botanical survey of Devil's Lake State Park, which included mapping vegetation, locating rare species, and recommending sensitive areas for preservation (Zimmerman 1947). He reported the first park records for a number of species, and also collected here in succeeding years. His compilation of ferns and seed plants (Zimmerman 1962) was the foundation of the park's vascular species list.

Another major contemporary study is Thomas G. Hartley's flora of the "Driftless Area," which was Hartley's Ph.D. thesis under Robert F. Thorne at the State University of Iowa in Iowa City (Hartley 1962, 1966). His list of collecting stations includes a total of 9 sites in Sauk County (Hartley 1962:126-127).

Andy Clark's surveys (1993a, 1993b) are also noteworthy, in that they have contributed new records and information. Clark, a resident of Green Bay, Wisconsin, has done vascular plant surveys for the Wisconsin Department of Natural Resources, The Nature Conservancy, and environmental consulting firms.

Scientists continue to visit the study area, and in fact the list of recent collectors reads like a "who's-who" of well-known botanists, including John T. Curtis (1913-1961), the pioneering University of Wisconsin plant ecologist (Fralish et al. 1993); Henry C. Greene (1904-1967), who succeeded Davis as the university's authority on parasitic fungi (Backus and Evans 1968); Hugh H. Iltis, who succeeded Fassett as the curator of the University of Wisconsin Herbarium; John W. Thomson, botany professor at the University of Wisconsin-Madison; Philip B. Whitford (1920-1991), botany professor at the University of Wisconsin-Milwaukee; Douglas W. Dunlop, botany professor at the University of Wisconsin-Milwaukee; Donald Ugent, curator of the Southern Illinois University Herbarium in Carbondale; Robert C. Koeppen, of the U.S. Forest Service in Washington, D.C.; Theodore S. Cochrane, a curator at the University of Wisconsin Herbarium; Michael Nee, a curator at the New York Botanical Garden; Robert K. Peet, botany professor at the University of North Carolina in Chapel Hill; W. Carl Taylor, a fern specialist at the Milwaukee Public Museum; and Frederick J. Hermann (1906-1987), a moss specialist (Voss and Reznicek 1988).

Methods

Although floras of Sauk County and Devil's Lake State Park are included herein, this report is essentially based upon landforms and geographical provinces rather than political boundaries—the traditional approach. A geographical emphasis should be more meaningful in determining patterns and relationships. The Baraboo Hills, Devil's Lake, Wisconsin River, Western Upland, and Central Plain are all treated separately in this report.

Field Records

From 1966 through 1994 I compiled vascular plant lists in the field for a total of 198 localities: 33 in Devil's Lake State Park, 53 in the Baraboo Hills outside of Devil's Lake State Park, 42 in the Western Upland, and 70 in the Central Plain. These are filed by township, range, and section. Some localities were visited just once, others more often. A study in British woodlands (Kirby et al. 1986) concluded that observer experience and additional visits both resulted in finding more species in a given locality.

Species were also noted on numerous outings when official lists were not being compiled.

I also had access to vascular plant lists for another 25 localities for the study area. These were compiled by Wisconsin Department of Natural Resources personnel, mainly Robert H. Read and William E. Tans, and by the following individuals: Iltis (1963, 1964), Greene (1966), Threlfall and Severson (1971), Phelps and Phelps (1977), Henderson (1989), Clark (1993a, 1993b), and Armstrong (1994). Specimen records from other individuals were also utilized when verifiable.

Herbaria Records

The extensive collections of the University of Wisconsin-Madison Herbarium were checked regularly and were The Milwaukee Public indispensable for this study. Museum Herbarium was also helpful. Local herbaria are located at the International Crane Foundation (Liegel and Weber 1980, Patlak 1981) and the Leopold Reserve (Luthin 1979). The author's herbarium is located at his residence in Baraboo, Wisconsin; it will be donated to the University of Wisconsin-Madison Herbarium. Andy Clark's herbarium, located at his residence in Green Bay, Wisconsin, was also consulted; voucher sheets of his more significant records will be donated to the University of Wisconsin-Madison Herbarium. The total number of herbarium sheets for the study area in all herbaria was not tallied, but it runs into the thousands.

Literature Records

Zimmerman (1947, 1962) and Hartley (1962, 1966) are the major publications for the study area. Tryon et al. (1953), Peck and Taylor (1980), and Peck (1982) were helpful for ferns and fern allies.

Since 1929 a series of papers, entitled Preliminary Reports on the Flora of Wisconsin, has been published in the *Transactions of the Wisconsin Academy of Sciences, Arts and Letters*. The following were most helpful: Fassett (1930a, 1930b, 1933, 1946), Costello (1933), Fogelberg (1937), J.A. McIntosh (1950), Ross and Calhoun (1951), Salamun (1951), Greene (1953), Koeppen (1957), Noamesi

and Iltis (1957), Urban and Iltis (1957), H.G. Mason and Iltis (1958), Iltis and Shaughnessy (1960), Patman and Iltis (1961), Sauer and Davidson (1961), Schlising and Iltis (1961), Ugent (1962), Barkley (1963), Johnson and Iltis (1963), Salamun (1963), Argus (1964), Hauke (1965), C.T. Mason and Iltis (1965), Beals and Peters (1966), Mickelson and Iltis (1966), Smith and Levin (1966), Tessene (1967-68), Payne (1970), Utech (1970), Utech and Iltis (1970), Gillett and Cochrane (1973), Cochrane and Salamun (1974), Marcks (1974), Salamun (1979), Tans and Iltis (1979), and Richardson et al. (1987). Four Preliminary Reports are unpublished: Lewis [1960], Mathias and Constance [1967], Crosswhite [1969], and Wahl [1970].

The following publications on families, genera, or species occurring within the study area were also consulted: Toole (1920, 1922), Fuller (1933), G.N. Jones (1939), Shinners (1941), Kouba et al. (1948), Fassett (1951, 1961), Wahl (1954, 1955), Melchert (1960), Kilgour (1964), Mangaly (1968), Heiser (1969), Williams (1970), Freckmann (1973), Sheviak (1973, 1974), Catling and Cruise (1974), Catling (1976, 1978), Overlease (1977), Harriman (1980), Jones (1980a, 1980b, 1989), Maycock et al. (1980), Bayer and Stebbins (1982), Isely and Peabody (1984), Waterway (1986), Case (1987), Reznicek and Catling (1987), and Tans (1987).

Local histories, local newspapers, and the original land surveys were also consulted.

Documentation

All pertinent field records, with herbaria records and literature records, were tabulated on 5 x 8 inch index cards, one for each species; these were filed alphabetically by family and then by genus and species within each family in the appropriate major group—ferns and fern allies, gymnosperms, monocots, or dicots. This is the order followed in the annotated checklist. The information is summarized in the species entries of the annotated checklist.

Virtually all species are represented by herbarium specimens or photographs. This information is also included on the index cards, which are on file at the author's residence in Baraboo, Wisconsin.

Taxonomy and Nomenclature

The format essentially follows Kartesz (1994), rather than Fernald (1950) or Gleason and Cronquist (1991), with some exceptions. Panic grasses in Poaceae follow Freckmann (1996), and certain genera, which are not recognized by Kartesz (1994), are herein retained. These are as follows: Camptosorus in Aspleniaceae; Smilacina in Liliaceae; Cacalia in Asteraceae; Dentaria and Nasturtium in Brassicaceae; and Poinsettia in Euphorbiaceae. Also, the treatment of certain species differs taxonomically from Kartesz (1994), notably Acer nigrum in Aceraceae; the Aster sagittifolius complex in Asteraceae; Melilotus alba in Fabaceae; Scutellaria leonardii and Stachys hispida in Lamiaceae; Potentilla fruticosa, P. palustris, and P. tridentata in Rosaceae; and Linaria canadensis in Scrophulariaceae.

Michigan Flora (Voss 1972, 1985, 1996) was a valuable reference; Plants of the Chicago Region (Swink and Wilhelm 1994), another classical work of the Great Lakes area, was also consulted.

Some general comments on scientific names might be helpful. The scientific name of a species consists of the following: first the name of the genus (plural genera) to which the plant has been assigned, and then the specific epithet, followed by the authority or authorities, often abbreviated, for the name. One or more related species comprise a genus, and one or more related genera comprise a family. Units below species occur in 3 ranks; these are, in descending order, subspecies, variety, and form. If infraspecific units are used, they must be kept in their established hierarchy; subspecies, for example, may consist of 2 or more varieties, but varieties cannot be divided into subspecies. Finally, a taxon (plural taxa) is any taxonomically recognized unit, regardless of rank, for example species, subspecies, variety.

Every plant has a scientific name, but not every plant has a common name. Common names are also limiting in that a given common name is sometimes used for more than one plant, and a given plant sometimes has more than one common name. Those common names in local usage are generally used herein. An effort was not made to manufacture common names from the scientific name, for example "Broad-leaved Panic Grass" for *Panicum latifolium*.



RESULTS AND DISCUSSION

Plant Communities

The land cover of the study area consists of approximately 35% tree communities; 2% prairies, sandy meadows, and wetlands; and 63% disturbed land. The latter category is the land cover type that will continue to increase markedly. See Lange (1990) for more detailed habitat descriptions and further references.

It should be pointed out that today's native communities may differ from those of presettlement time. Today's communities often occur on sites that were judged undesirable for agriculture because of steep topography, thin and rocky soil, or poor drainage, and they have had a different history than presettlement communities. An example is oak forest. Such trees as Red Oak, Red Maple, and Shaggybark Hickory now are more frequent in oak forests of the study area, largely because of fire exclusion (Lange 1990:19-23).

Also, certain vascular plants found today only or mainly in a given habitat (e.g., dry sandy woods) may be there because their optimal habitats (e.g., dry prairie and/or oak savanna) now are rare or extirpated in the study area. Oak savanna was intermediate between oak forest and prairie; it had features of both and graded into them. Prairie grasses and forbs, not underbrush, generally formed the ground cover, and the oaks grew about 100 feet apart. This was the major community in the study area in early settlement time (Lange 1990:14-16). Preliminary lists of indicator species have been generated for oak savanna and oak woodland; the interested reader should consult Pruka (1995).

Forests, Oak Woodland

Tree communities are dominated by oaks, Sugar Maple, coniferous



Figure 13. Oak forest between the east and south bluffs, east of the railroad track, Devil's Lake State Park, 1978. The woman is standing by a Red Oak, with a White Oak on the right; the understory trees are mainly Red Maple.



Figure 14. Oak forest on the west bluff, Devil's Lake State Park, 1987. Mainly White Oak, with a Red Oak on the far left, also Shaggybark Hickory and (center of picture) White Pine.



Figure 15. Sugar Maple-Basswood forest in the extensive upland of the western half of the South Range of the Baraboo Hills, 1974.



Figure 16. Jack Pine-oak woods in the northwestern corner of the Baraboo Range, 1978.



Figure 17. Low sandy woods, Delton Township, 1986. The ground cover is mainly Cinnamon Fern.



Figure 18. Dry sand prairie, northwestern corner of the Baraboo Hills, 1978. The ground cover is mainly Little Bluestem.

species, or a mix of deciduous and coniferous species. The terms "hardwoods" and "hardwood forest(s)" are synonymous with deciduous forest.

Oak forest, the main natural cover, consists primarily of Red and White Oaks, with Red Maple understory (Figures 13-14); Black Oak, often with Jack Pine, occurs on drier sites. The general term "mesic woods" refers to Red Oak woods and/or Sugar Maple forest. Basswood is a common associate of Sugar Maple; Sugar Maple-Basswood forest occurs mainly in the western half of the South Range of the Baraboo Hills and in the heads of ravines and on certain north-facing slopes in the Western Upland (Figure 15). Yellow Birch replaces Basswood in cooler sites; Sugar Maple-Yellow Birch forest is of limited occurrence in the Western Upland on sandstone outcrops along the Baraboo River and some of its tributaries and in the Baraboo Hills in certain gorges and associated slopes. Stands of White Pine occur in boulder fields and rocky bluffsides, whereas Red Pine and Jack Pine are more typical of dry sandstone outcrops and sand plains (Figure 16). Hemlock stands occur in certain gorges and on north-facing sandstone outcrops along the Baraboo River and some of its tributaries. Low sandy woods (= sphagnous woods; Hartley 1962:74-75) is a Central Plain speciality. The dominant trees are Red Maple, White Pine, Red and White Oaks, and White Birch; the ground is generally sphagnous with abundant ferns and sedges (Figure 17).

Some of the land cover in early settlement time might have been oak woodland, a community only recently recognized and not included in the early settlement vegetation map of the study area (Lange 1990:12-13). This community had a closed canopy, described as intermediate between savanna and forest (Pruka 1994:7), but generally an open understory, like oak savanna. The openness was due to running fires, which burned the

underbrush but not the trees. Two plants characteristic of this community, Starry Campion and Yellow Giant-hyssop (Pruka 1995), occur in the eastern end of the Baraboo Hills, suggesting that this area was oak woodland in the past.

Prairies

Virtually all the prairies, with the notable exception of the "Wisconsin Desert" by Spring Green, are one to several acre remnants being overgrown by woody plants. Nearly all these are dry prairies on sand, sandstone, conglomerate, dolomite, or glacial till (Figures 18-19). Cady's Marsh along the Baraboo River southeast of Reedsburg in the Central Plain is exceptional in that it includes remnants of mesic and wet-mesic prairie (Figure 20). The "Wisconsin Desert," an especially dry region of several hundred acres, contains dry sand prairie and sand blows in the lowlands, and dry lime prairie on the south-facing dolomite bluffs (Figure 21).

Glades

Glades (not to be confused with Red Cedar glades; Armstrong 1994) are bedrock communities on quartzite or rhyolite within deciduous forest, characterized by shallow soil, limited weathering of the substrate, and often steep, south- to southwest-facing exposures; the canopy is sparse and consists mainly of scattered and stunted oaks and Shaggybark Hickory, and the ground cover consists mainly of prairie plants (Figures 22-23). Sandstone glades and dolomite glades might also be recognized in the study area; these communities are treated herein as dry prairies.

Sandy Meadows

Sandy meadows, like low sandy woods, is another plant community confined to the Central Plain (Hartley 1962:75-77). The dominant ground cover often is dewberry (mainly *Rubus flagellaris*),



Figure 19. Dry prairie on limey sandstone, west end of the South Range of the Baraboo Hills, 1993.



Figure 20. Cady's Marsh, seen here to the right of a cornfield and a fence, 1978.



Figure 21. "Wisconsin Desert," looking north across the sand dunes and flats towards the limey bluffs, 1969.



Figure 22. Quartzite glade on top of the south end of the east bluff, Devil's Lake State Park, 1986.

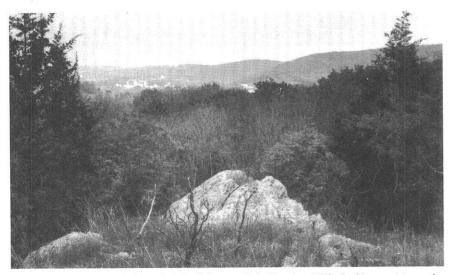


Figure 23. Rhyolite glade in the North Range of the Baraboo Hills, looking east towards the Lower Narrows, 1986.



Figure 24. Sandy meadow in Delton Township, 1981. The plant in flower is Colic-root.

Old-field Cinquefoil, and goldenrods (especially Euthamia graminifolia). Species such as Colic-root (Figure 24) and Yellow-eyed-grass impart a Coastal Plain aura (see Floristics and Phytogeography). This is a vanishing community in the study area. At least a half dozen sites could still be found in Dellona and Delton Townships into the 1970s, although they were already being overgrown with woody plants. Now, 25 years later, they are virtually contiguous with the adjacent forest cover (Figure 25). Only a few examples of this unheralded community remain, mainly in the Pine Island Wildlife Area in Caledonia Township, and they too are being invaded by shrubs and trees.

Wetlands

Wetlands are represented by a diversity of communities, although often much reduced in size from early settlement time.

Deciduous swamps, characterized by such trees as Silver Maple and American Elm, are found mainly in the Wisconsin River bottoms (Figure 26), whereas Tamarack swamps are best developed along Dell Creek (Figure 27). Shrub swamps are widespread and typified by Alder thickets (Figure 28), willow thickets, and boggy Red Maple thickets. The collective term "low thickets" refers to any combination of these shrub swamps.

A fen is a peaty, calcareous wetland over groundwater discharge that is often under artesian pressure; there is just one fen in the study area, along Leech Creek in Fairfield Township (T12N, R7E, Sections 17 and 18). Bogs, in contrast, are primarily acidic wetlands characterized by such plants as Sphagnum mosses, Leather-leaf, and various orchids; a Leather-leaf bog is found in Fairfield Township (T12N, R7E, Section 3).

Sedge meadows are characterized by such species as *Carex stricta* and *C. lacustris* (Figure 29), and,

Figure 25. Sandy meadow in Dellona Township being overgrown with White Pine, Red Maple, and Quaking Aspen, 1986.



Figure 26. Silver Maple-American Elm swamp along the Wisconsin River in Fairfield Township, 1986.



Figure 27.
Tamarack swamp along Dell Creek
in Dellona Township, 1986. The
shrub is Alder.





Figure 28.Alder swamp along Dell Creek in Dellona Township, 1986.



Figure 29. Sedge meadow, mainly Saw-grass, in Fairfield Township, 1986.



Figure 30.Sedge meadow, mainly Wire-grass, in Delton Township, 1986.

Figure 31.

Marsh along the Wisconsin River in

Troy Township, 1973. Most of the
cover (the light color) is Reed Canary

Grass, which was introduced for
stock feed.

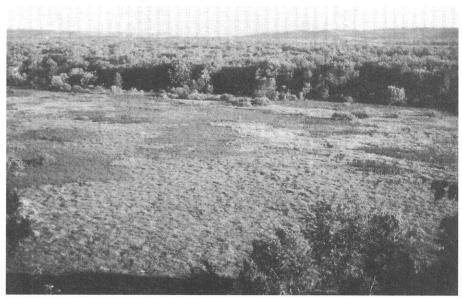


Figure 32.
Southwest corner of Devil's Lake and
Messenger Creek in 1974, a low
water year. The main species on the
mudflats is the sedge Eleocharis
acicularis. See the species entry in
the annotated checklist.



Figure 33. Glacial kettle in Devil's Lake State Park on the former Johnson farm, 1978.



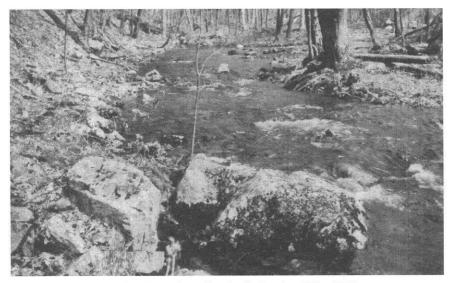


Figure 34. Otter Creek in Baxter's Hollow in the Baraboo Hills, 1976.

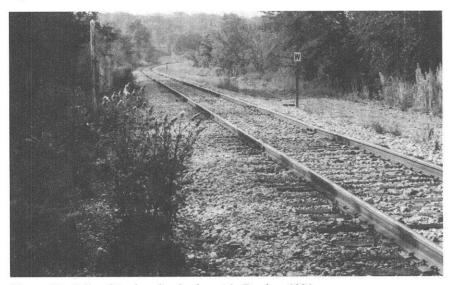


Figure 35. Railroad track and embankment in Baraboo, 1994.



Figure 36. Conifer plantation in Prairie du Sac Township, 1986.

especially in the Central Plain, C. rostrata and C. oligosperma (Figure 30); both species of Calamagrostis in the study area are often co-dominants with the sedges in Central Plain sedge meadows. An alkaline meadow is a sedge meadow with fen plants; a notable example is the meadow extending from the lowland between the east and south bluffs in Devil's Lake State Park, south to Gallus' Slough near Merrimac. Also represented in the study area are Blue-joint meadows and Reed Canary Grass meadows (Figure 31). The collective term "low meadows" refers to any combination of sedge or grass meadows. Cat-tail marshes are widespread, especially along the Wisconsin River and in the Bear Creek drainage.

Riparian habitats are also widespread (Figure 32). Glacial kettles are found in a number of places, notably on the former Johnson farm in Section 18 in Devil's Lake State Park (Figure 33) and on Point Sauk in Greenfield Township.

Open-water habitats are represented by ponds, lakes, sloughs, and drainages. A given pond, lake, or slough, whether natural or artificial, generally contains from 10 to 20 (rarely more) species of aquatic vascular plants. Creeks and brooks (Figure 34) are less diverse, with 6 or so species usually being the maximum number of aquatics (Lange, unpublished data).

Ruderal Areas

Ruderal areas are artificially disturbed sites, the abodes of weeds. Included herein are roadsides, trails, railroad embankments (Figure 35), agricultural workland, fallow fields, old fields (i.e., abandoned fields, often with scattered shrubs and/or trees), quarries and gravel pits, pavement, gardens and lawns, cemeteries, vacant lots, industrial land, construction sites, ditches, landfills, tree plantations (Figure 36), and orchards.

Figure 37. Dutchman's-breeches on the Devil's Lake State Park bluffs, 1984.



Figure 38. Common Wood-sorrel, with Canada Mayflower, LaValle Township, 1988.



Figure 39. Pansy Violet in Devil's Lake State Park, 1967.





Figure 40. Meadow-beauty; primarily a species of the coastal plain, as photographed here, for example, in Cape May County, New Jersey, in 1964.

Floristics and Phytogeography

The flora of the study area consists of a number of groups or elements, each of which shares a common geographic range (after Curtis 1959:8-11).

Most common is the deciduous forest group, consisting of Alleghenian and Ozarkian elements comprising some 75% of the native species. The Alleghenian element centers in the Cumberland and Great Smoky Mountains, whereas the Ozarkian element, which is better adapted to drought and fire, centers in the Ozark Mountains of Arkansas and Missouri. Alleghenian woody plants include Sugar Maple, White Oak, and Gray Dogwood; herbaceous plants include Bloodroot, Dutchman's-breeches (Figure 37), and May-apple. Ozarkian trees include Black Oak and the hickories, and herbs include Rue-anemone.

Another group, the Boreal element, consists of northern plants, mainly forest species. Approximately 70 species (= 7% of the native flora), including Shining Clubmoss, Common Woodsorrel (Figure 38), and Beaked Hazel, are in this group.

The Prairie element includes grassland and Great Plains species. In this group are approximately 140 species (= 13% of the native flora), including Big Bluestem, Silky Aster, and Pansy Violet (Figure 39).

An interesting although minor group is the Coastal Plain-Mississippi Embayment element. These plants typically are found in habitats that simulate the Atlantic and Gulf coastal plains (Peattie 1922, Fernald 1942, Curtis 1959:10, Cushing 1965, Read 1976:7). In the study area they are found in the Central Plain, where they help define this landform botanically. Their disjunct presence in Wisconsin has been explained on the basis of step-wise migration in early postglacial times; however, other hypotheses, for example long-distance dispersal or a combination of dispersal and migration, are also possible, at least for certain species (Richardson et al. 1987:113-14). Still another hypothesis may be the most likely explanation, namely, that these disjunctions are remnants of more extensive populations established during a relatively dry period in the Great Lakes region some 5,000 years ago (Jackson and Singer 1997). Reznicek (1994) lists a total of 62 coastal plain disjunct species for the Great Lakes region; 5 of these occur in the study area: 2 grasses (Aristida tuberculosa and Panicum meridionale), Yellow-eyed-grass, Meadow-beauty (Figure 40), and a bladderwort (*Utricularia geminiscapa*).

Weeds represent still another element. This group consists mainly of plants of Eurasian origin, but there are also some of tropical derivation and still others of North American origin from outside the study area. Mainly these are from western North America, but some, such as Summer Phlox, originated farther east or south. These plants prospered with the accelerated disturbance of the ground by the white settlers. Their proliferation was being discussed in local newspapers over a century ago, and one local newspaper in 1882 even had an article on "Street Flowers" (Lange 1980b). Some species, such as Mullein, were cultivated (Figure 41). Weeds total 241 species (= 18% of the flora).

The flora of the study area obviously has been derived from a number of sources. These sources for native plants indicate migrational routes from eastern North America, northern areas, the Great Plains, and the Mississippi River and Wisconsin River systems. Table 2 lists the 37 native species that are confined in the study area to the immediate corridor of the Wisconsin River, including the lower Baraboo River and lower Honey Creek.



Figure 41. These 7 people were photographed in a garden patch of Mullein in the Sauk City area in the early 1900s. Mullein has a long history of extensive medicinal and other uses in both Old and New Worlds.

Another group of native species occurs only in Devil's Lake and the Wisconsin River and/or along their shores; these 18 species are listed in Table 3.

A few taxa in the study area are known only or mainly from nonglaciated territory; if they occur within glaciated terrain, they do so only rarely and then often marginally. Notable examples are Rock Clubmoss (Wilson 1930), Sullivantia (Fassett 1932), Northern Monkshood (Figure 42), Cliff Cudweed (Beals and Peters 1966), Cliff Goldenrod (Salamun 1963), and Fameflower (Cochrane 1993). With the possible exception of Fameflower, these are all cliff plants. Perhaps they survived on suitable rock outcrops in the Driftless Area during the last glaciation in Wisconsin. However, the probable occurrence of boreal and even tundra conditions in the Driftless Area during glaciation renders this scenario unlikely for most temperate flowering plants; for these species an entry into the Driftless Area after glaciation seems more likely (Pusateri et al. 1993).

Apparently the only Driftless Area endemics are Cliff Cudweed, which is presently known only from sandstone cliffs in southwestern Wisconsin, and Cliff Goldenrod, a fairly common *Solidago* of dolomite and sandstone cliffs that is related to *S. hispida*. Hill's Oak might also qualify (Pusateri et al. 1993:33).

Comparison of the Baraboo Hills, the Western Upland, and the Central Plain

Table 4 lists the total number of species of native vascular plants for each major plant group in the Baraboo Hills, Western Upland, and Central Plain, and the number of species found only in the given landform or

province within the study area. These numbers for the Baraboo Hills, Western Upland, and Central Plain, respectively, are as follows: 889 and 72, 823 and 33, and 904 and 80. The species restricted to the Baraboo Hills, Western Upland, and Central Plain are listed in Tables 5, 6, and 7.

The richest geographical entities, both in number of species and number of species found only in the given landform/province within the study area, are the Baraboo Hills and Central Plain. The Western Upland, in contrast, has the fewest species and the fewest such restricted species. This is true even if the limey foothills at the western end of the South Range and Honey Creek Valley are included within the Western Upland, rather than in the Baraboo Hills as in this report; a total of 19 species, including 4 restricted species, would then be shifted to the Western Upland from the Baraboo Hills (Table 8). The Hills are generally regarded as part of the Western Upland; this analysis indicates that the Baraboo Hills should be recognized as a separate entity in terms of vascular plants.

The Baraboo Range is a major center of biological diversity in Wisconsin (Mossman and Lange 1982). The variety of landforms includes terraces and slopes, flat uplands, talus fields and stony hillsides, gorges and valleys, moraines, kettles, and outwash plains (Attig et al. 1990). This diverse topography contains a bewildering array and intermingling of habitats and niches that contain approximately one-half of all the ferns and flowering plants found in Wisconsin, including species found nowhere else in the state and nowhere else in the study area (Lange 1980a, 1981a). At the same time the significance of the Western Upland and the Central Plain in contributing to the rich flora of the study area should not be overlooked.

Figure 42. Northern Monkshood in Parfrey's Glen, 1967.



Table 2. Native vascular plants in the study area confined to the immediate corridor of the Wisconsin River, including the lower Baraboo River and lower Honey Creek.^a

| Scientific Name | Common Name |
|--|---------------------|
| Arabis shortii | — |
| Azolla mexicana | . Mosquito Fern |
| Boltonia asteroides | |
| Brasenia schreberi | . Water-shield |
| Carex alopecoidea | |
| Carex davisii | - |
| Carex emoryi b | |
| Carex lupuliformis | - |
| Carex lupulina | . Hops Sedge |
| Carex muskingumensis | - |
| Echinochloa walteri | |
| Eleocharis erythropoda | |
| Eleocharis intermedia | |
| Fimbristylis autumnalis | - |
| Glyceria septentrionalis | . Manna Grass |
| Juncus acuminatus | |
| Leersia lenticularis | Catchfly Grass |
| Lycopus virginicus | . Water-horehound |
| Morus rubra | |
| Myosotis laxa | |
| Nuphar lutea | Spatter-dock |
| Panicum rigidulum | Panic Grass |
| Platanus occidentalis | Sycamore |
| Polygonum ramosissimum | Bushy Knotweed |
| Pontederia cordata | Pickerelweed |
| Quercus bicolor | |
| Rhexia virginica | |
| Rudbeckia subtomentosa | |
| Rumex salicifolius | |
| Rumex verticillatus | Swamp Dock |
| Sagittaria cuneata | Arrownead |
| Scirpus acutus | . Hardstem Buirusn |
| Sicyos angulatus | |
| Stachys tenuifolia | . rieuge-nettie |
| Verbesina alternifolia Veronica scutellata | . vving-stem |
| veronicu scutellata | . Iviarsh Speedweii |
| Zannichellia palustris | . riomea Ponaweed |

^a Additional species are found only in the Wisconsin River corridor within the Western Upland and/or the Central Plain, but also occur elsewhere in the study area.

Table 3. Native vascular plants in the study area found only in Devil's Lake and the Wisconsin River and/or along their shores.

| Scientific Name | Common Name |
|---------------------------|--------------------|
| Betula nigra | Red or River Birch |
| Cephalanthus occidentalis | Buttonbush |
| Cyperus bipartitus | |
| Cyperus squarrosus | Awned Cyperus |
| Eleocharis engelmannii | |
| Juncus bufonius | |
| Juncus nodosus | |
| Lipocarpha micrantha | |
| Najas flexilis | |
| Phyla lanceolata | |
| Potamogeton robbinsii | |
| Potamogeton spirillus | |
| Potamogeton vaseyi | |
| Rotala ramosior | |
| Salix nigra | Black Willow |
| Scirpus pungens | |
| Scirpus smithii | |
| Vallisneria americana | Water-celery |

Table 4. Summary of native vascular plants by landform/province. The number in () is the number of the total species found only in the given landform/province within the study area.

| Major Plant Group | Baraboo Hills ^a | Western Upland | Central Plain |
|-----------------------|-------------------------------|-------------------|------------------|
| Ferns and Fern Allies | 51(6) | 41(2) | 42(2) |
| Gymnosperms | 9 | 9 | 9(1) |
| Monocots | 263(28) | 219(7) | 270(34) |
| Dicots | 566(38) | 554(24) | 583(43) |
| Total | 889(72) | 823(33) | 904(80) |

^a Devil's Lake State Park is herein included in the Baraboo Hills, except for the alkaline meadow between the east and south bluffs, which is included in the Central Plain.

^b Also known from a station in upper Honey Creek.

Table 5. Native vascular plants in the study area restricted to the Baraboo Hills.a

^a Including Devil's Lake State Park, except for the alkaline meadow between the east and south bluffs, which is herein referred to the Central Plain.

Table 6. Native vascular plants in the study area restricted to the Western Upland.^a

| Scientific Name | Common Name | Scientific Name | Common Name | |
|--|--|---|-------------|--|
| ■ Ferns and Fern Allies | | Chamaesyce glyptosperma — | | |
| Azolla mexicana | Mosquito Fern | : Chenopodium desiccatum | ····· | |
| Equisetum scirpoides | Dwarf Scouring-rush | : Chenopodium standleyanı | ım — | |
| ■ Monocots Carex alopecoidea Carex gravida Carex richardsonii Echinochloa walteri Panicum rigidulum Spiranthes magnicamporun Zannichellia palustris Zigadenus elegans ■ Dicots Adoxa mochatellina Amaranthus albus Arabis hirsuta | Panic Grass Prairie Ladies'-tresses Horned Pondweed White Camass Moschatel Tumbleweed Hairy Rock Cress Heart-leaved Aster | Crataegus chrysocarpa Crataegus crus-galli Euthamia gymnospermoid Lactuca ludoviciana Morus rubra Oxalis montana Pediomelum esculentum Penstemon pallidus Platanus occidentalis Rhexia virginica Rubus setosus Sicyos angulatus Silphium integrifolium Symphoricarpos occidenta | | |

^a Some of these species are confined to the Wisconsin River corridor within the Western Upland.

Table 7. Native vascular plants in the study area restricted to the Central Plain.^a

| Scientific Name | Common Name | Scientific Name | Common Name |
|--------------------------------|--|----------------------------|------------------------|
| Ferns and Fern Allies | | ■ Dicots | |
| Dryopteris fragrans | Fragrant Fern | Asclepias hirtella | Green Milkweed |
| Lycopodium tristachyum . | Fragrant Fern Ground-cedar Clubmoss | * Asclepias ovalifolia | Oval-leaved Milkweed |
| * , | | Aster borealis | Rush Aster |
| Gymnosperms Thuis oscidentalis | Factorn White Coder | Aster fragilis | Small White Aster |
| Thuja occidentatis | Eastern White Cedar | Bartonia virginica | Screw-stem |
| ■ Monocots | | Berula erecta | |
| Aletris farinosa | | Betula pumila | Bog Birch |
| Aristida longispica | Three-awn Grass | Brasenia schreberi | Water-shield |
| Aristida purpurascens | Three-awn Grass | Ceratophyllum echinatum | Coontail |
| Calopogon tuberosus | Grass-pink Orchid | Chamaedaphne calyculata | Leather-leaf |
| Carex aquatilis | ······ | Chamaesyce vermiculata | Hairy Spurge |
| Carex arcta | | Collinsonia canadensis | Richweed |
| Carex buxbaumii | | Crataegus pennsylvanica | Hawthorn |
| | Bottlebrush Sedge | Cuscuta polygonorum | Dodder |
| Carex disperma | - | Galium labradoricum | |
| Carex echinata | | Gentianopsis procera | Fringed Gentian |
| Carex lupuliformis | – | : Gnaphalium saxicola | Cliff Cudweed |
| Carex lurida | – | Hieracium umbellatum | - |
| Cares sterilis | - | Houstonia caerulea | |
| Carex tetanica | | Hypericum kalmianum | |
| Carex trisperma | – | Lobelia kalmii | |
| Eriophorum angustifolium | Cotton-grass | Lysimachia quadriflora | — |
| Eriophorum tenellum | Cotton-grass | Melampyrum lineare | Cow-wheat |
| Glyceria septentrionalis | | Mimulus glabratus | Monkey Flower |
| Juncus acuminatus | | • Nemopanthus mucronatus | Mountain Holly |
| Juncus brevicaudatus | | Nuphar lutea | Spatter-dock |
| Juncus canadensis | — | Parnassia glauca | Grass-of-Parnassus |
| Juncus torreyi | – | Polygala verticillata | - |
| Malaxis unifolia | Green Adder's-mouth | Potentilla fruticosa | Shrubby Cinquefoil |
| | Marsh Wild-timothy | Primula mistassinica | Arctic Primrose |
| Panicum wilcoxianum | | Rhamnus alnifolia | Alder-leaved Buckthorn |
| Platanthera clavellata | Club-spur Orchid | Rosa blanda | Meadow Rose |
| Platanthera hyperborea | Tall Northern Bog Orchid | Rumex salicifolius | - |
| Platanthera lacera | Ragged Orchid | Salix pedicellaris | Bog Willow |
| Rhynchospora capitellata | Beak-rush | Salix pyrifolia | Balsam Willow |
| Sagittaria cuneata | Arrowhead | Sanicula canadensis | |
| Scirpus heterochaetus | — | Solidago riddellii | Riddell's Goldenrod |
| Scirpus pendulus | | Sorbus americana | Mountain-ash |
| Scleria triglomerata | Nut-rush | : Strophostyles leiosperma | |
| Xyris torta | Yellow-eyed-grass | : Toxicodendron vernix | Poison Sumac |
| - | | Utricularia geminiscapa | Bladderwort |
| | | : Vaccinium oxycoccos | Cranberry |
| | | Viola nephrophylla | — |

^a Some of these species are confined to the Wisconsin River corridor within the Central Plain.

Table 8. *Native vascular plants in the Baraboo Hills known only from the limey foothills at the western end of the South Range (Group A) or Honey Creek Valley (Group B).*

| Scientific Name | Common Name | Scientific Name | Common Name |
|--------------------------|------------------|---|------------------------|
| ■ Group A | | ■ Group B | |
| Asclepias lanuginosa | Woolly Milkweed | Carex canescens | — |
| Brickellia eupatorioides | | Carex digitalis ^a | — |
| Bromus kalmii | Brome Grass | Carex emoryi | |
| Carex jamesii | - | : Carex granularis | - |
| Cheilanthes feei | Slender Lip Fern | Carex laxiculmis ^a | - |
| Comptonia peregrina | | Carex trichocarpa | |
| Draba reptans | | Galium obtusum | |
| Hackelia deflexa | Stickseed | Geum rivale ^a | Purple Avens |
| Polygala senega | | Jeffersonia diphylla ^a Rubus hispidus | TwinleafSwamp Dewberry |

^a Known only from this area in Sauk County and Caledonia Township, Columbia County.

Rare Native Plants

Table 9 lists the 7 state endangered species, the 17 state threatened species, and the 47 Wisconsin species of special concern for the study area.

Endangered

Purple Milkweed, here at the northwestern edge of its range, is known from 3 stations, one of which may represent a remnant population that is persisting (and spreading?) from the former Sauk Prairie (Figure 43). Carex lupuliformis is known only from the lower Baraboo River. Richweed and Prairie White-fringed Orchid are both known only from collections from the past century. The Bush-clover Lespedeza leptostachya, an endemic of the north central states, was thought to be extinct in Wisconsin, as it had not been reported since 1880 (Alverson 1981). Then in the 1970s it was found in several dry prairies in southern Wisconsin and is now

known from 3 stations in the study area (Figure 44). The only extant population of Rough White Lettuce in the study area is in the "Wisconsin Desert" by Spring Green (Figure 21). One of the most exciting botanical finds of recent years was made by Andy Clark when in 1992 he discovered a population of approximately 30 deernipped stalks of Prenanthes crepidinea amid Interrupted Fern along a stream in a Sugar Maple forest in the Baraboo Hills. There are only 2 other Wisconsin records: Lynxville, Crawford County, 1915, and near Brodhead, Green County, 1956 (Johnson and Iltis 1963:306). Only a few plants were found in 1993, perhaps because of high water. In 1994 thousands of immature plants were noted in May, associated with Carex deweyana and Toothwort, but in July only several dozen, mainly yellow basal leaves, could be found; the plants were dying back. None could be found in August.

Table 9. Native vascular plants in the study area listed by the Wisconsin Department of Natural Resources (1993a, with additions) as Endangered, Threatened, or Special Concern.^a

| cientific Name | Common Name | Scientific Name | Common Name |
|---------------------------------|------------------------------|----------------------------|---------------------------|
| I Endangered | | Carex albicans | |
| Asclepias purpurascens | Purple Milkweed | Carex backii | |
| Carex lupuliformis | <u>-</u> | Carex richardsonii | |
| Collinsonia canadensis | Richweed | Clematis occidentalis | Purple Clematis |
| Lespedeza leptostachya | Bush-clover | Commelina erecta | |
| Platanthera leucophaea | Prairie White-fringed Orchid | Corallorhiza odontorhiza | |
| Prenanthes aspera | Rough White Lettuce | Cypripedium parviflorum | Small Yellow Lady's-slipp |
| Prenanthes crepidinea | — | Cypripedium reginae | Showy Lady's-slipper |
| I Threatened | | Dryopteris fragrans | Fragrant Fern |
| | Northern Monkshood | Eleocharis engelmannii | Spike-rush |
| Adoxa moschatellina | | Eupatorium sessilifolium | Úpland Boneset |
| Agalinis gattingeri | | Gentianopsis procera | Fringed Gentian |
| Agaitais guittigeri | Yellow Giant-hyssop | Houstonia caerulea | |
| Asslanias lauvoimosa | | Huperzia porophila | Rock Clubmoss |
| Asclepius unuginosu | Oval-leaved Milkweed | Jeffersonia diphylla | Twinleaf |
| Callitricka hataranhulla | Water starswert | Lespedeza violacea | Bush-clover |
| Callitriche heterophylla | Dragning Codes | Myosotis laxa | Forget-me-not |
| Carex prasina Cirsium hillii | Drooping Seage | Napaea dioica | Glade Mallow |
| | | Nothocalais cuspidata | Prairie Dandelion |
| Gentiana alba | White Lady's-slipper | | One-flowered Cancer-root |
| Gnaphalium saxicola | | Panax quinquefolius | Ginseng |
| | | Panicum wilcoxianum | Panic Grass |
| Lespedeza virginica | | Pellaea atropurpurea | |
| | Brittle Prickly-pear | Penstemon pallidus | Beard-tongue |
| | Tubercled Orchid | Phegopteris hexagonoptera | Broad Beech Fern |
| Poa paludigena | | Platanthera hookeri | Hooker's Orchid |
| Polytaenia nuttallii | Prairie-parsiey | Platanus occidentalis | |
| Special Concern | | Polystichum acrostichoides | |
| Adlumia fungosa | Mountain-fringe | Potamogeton vaseyi | Pondweed |
| Arabis missouriensis | | Primula mistassinica | Arctic Primrose |
| Aristida dichotoma | Three-awn Grass | Pediomelum esculentum | |
| | Maidenhair Spleenwort | Rhus aromatica | |
| Bartonia virginica | | Scleria triglomerata | Nut-rush |
| Botrychium oneidense | Blunt-lobed Grape Fern | Solidago sciaphila | Cliff Goldenrod |
| Cacalia muhlenbergii | Indian-plantain | Sullivantia sullivantii | Sullivantia |
| Calamagrostis stricta | * | Talinum rugospermum | |
| ssp. inexpansa | <u> </u> | Triphora trianthophora | Three-birds Orchid |
| Callirhoe triangulata | Poppy Mallow | Utricularia geminiscapa | |

^a Endangered, Threatened, and Special Concern are defined in the introduction to the Annotated Checklist.

Threatened

Northern Monkshood (Figure 42) is known from 3 extant stations plus one historic station where it can no longer be found. This taxon represents surviving eastern populations of a once more widespread western species, Aconitum columbianum (Iltis 1965). Moschatel is known from one station in the Western Upland (Figure 45). Gerardia—Agalinis gattingeri—is known from several stations in the Baraboo Hills plus several others in Devil's Lake State Park and one in the Western Upland. Yellow Giant-hyssop, a species of oak woodland (see Plant Communities), is known from one station in the Baraboo Hills. The status of Woolly Milkweed (Figure 44) is perplexing, as 2 of the 6 known stations could not be relocated in 1992-93. Oval-leaved Milkweed is known from several historic records and 3 recent (1970s and 1980s) records from relatively open sandy woods. The threatened Callitriche is known from streams and associated pools in the Baraboo Hills and Devil's Lake State Park. Drooping Sedge (Figure 46) is known from a total of 19 stations, 5 in Devil's Lake State Park and 14 in the Baraboo Hills outside of the park; these are located in Honey Creek, Freedom, Baraboo, Sumpter, Merrimac, and Caledonia townships. In Wisconsin this predominately eastern species has also been found along the Kickapoo River in Vernon County, in the Barron Hills in Barron County, along the St. Croix River in Burnett County, and on Oak Island in the Apostle Islands; its distribution in the Great Lakes region, minus Vernon and Barron counties, is shown in Judziewicz and Koch (1993:130, Figure 24). Hill's Thistle (cover photo) is known from 3 stations. White Lady's-slipper, like Prairie Whitefringed Orchid and Richweed, is known only from a collection in the 1800s. White Gentian (cover photo) is known from 4 stations. Cliff Cudweed is presently known



Figure 43. Purple Milkweed in Devil's Lake State Park, 1993.



Figure 44. Several acre patch of prairie sod on the terminal moraine of the Wisconsin Glacier in the Badger Army Ammunition Plant, a station for both the Bush-clover Lespedeza leptostachya and Woolly Milkweed, 1993.

Figure 45. *Moschatel in LaValle Township, 1988.*



Figure 46.
Drooping Sedge, with Spotted Touchme-not, Devil's Lake State Park, 1994.



Figure 47.
Oak woods at the north end of the east bluff, Devil's Lake State Park, a locality for the Bush-clover Lespedeza virginica, 1994.





only from sandstone cliffs in the Driftless Area of Wisconsin. Another Bush-clover, *Lespedeza virginica*, abundant in southern states, is here confined to the Baraboo Hills and Devil's Lake State Park, where it has been found at approximately 9 stations (Figure 47). Brittle Prickly-pear has been found at approximately 8 stations. Tubercled Orchid is known from 4 stations, 3 of which are in or near Devil's Lake State Park (Figures 48-49). The Bluegrass *Poa paludigena* persists in the Alder-Black Ash swamp on the WSO Honey Creek property and in 1997 was found in an Alder thicket in Mirror Lake State Park. Prairie-parsley is known from several dry prairies and a sandy meadow.

Special Concern

Wisconsin taxa of special concern include 7 ferns and fern allies, 15 monocots, and 25 dicots. Their rarity varies from species such as Mountain-fringe and Twinleaf, which are known from only one station, to species such as Ginseng (Figure 50), Upland Boneset, Cliff Goldenrod, Sullivantia, and Fall Coral-root, which are known from 20 or more stations.

For more information on endangered, threatened, or special concern plants, see the species entries in the annotated checklist.

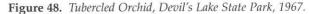


Figure 49. Tubercled Orchid, Devil's Lake State Park, 1967.



Figure 50. Ginseng in fruit, Devil's Lake State Park, 1966.



Figure 51.
Wonewoc High School botany class, 4 May
1900, gathering wildflowers (Trailing
Arbutus?) by the handful and the basketful;
some of the students are adorned with flowers.

Local Extinction (Including Species of Ecological Concern)

The study area was a rural society in past years, and it was taken for granted that school children would come home in spring with "handfuls" of wildflowers (*Baraboo Republic* 26 April 1894). Wildflowers were also commonly picked for school projects, shows, and for sale

(Figure 51). Trailing Arbutus was especially favored because of its early blooming and fragrance. "Bare footed boys, green grass and trailing arbutus parties" were among the harbingers of spring (Baraboo Republic 20 April 1893). This plant actually was regarded as a "crop" to be "harvested." The center of activity was Wisconsin Dells; "large quantities" were shipped via mail pouches to "all parts of the Union" (Mirror-Gazette, Kilbourn City, WI, 3 May 1888, 6 April 1889, 25 April 1891, 26 April 1894). Trailing Arbutus was still being heavily picked, for example for May Day baskets, into the 1900s (Baraboo News Republic 21 April 1911), but one would be hard pressed today to gather baskets or bouquets of it. Orchids, particularly lady's-slippers, also suffered from overcollecting in the past. In at least one area, located in Troy Township, a local family collected and shipped several dozen lady's-slippers each spring from 1910-1915 to a florist in Chicago; he was "anxious to buy all we could send" (Schmidt 1977:48).

Perhaps a plant cannot be eliminated by excessive collecting, but this practice certainly can cause a given species to become scarce or locally extinct. Overcollecting in the past, for example, may have contributed to the present day scarcity of Fragrant Fern in the Wisconsin Dells area (Lange 1979).

Burgeoning numbers of deer in recent decades are markedly affecting certain species. American Yew, for example, once much more common, especially north of the study area, has been devastated by high numbers of browsing deer (Alverson et al. 1988, Allison 1990).

Local extinction, however, is more likely to occur because of habitat change, degradation, or destruction. The number of flowering stalks of Gay Feather at a station in Devil's Lake State Park, for example, has been decreasing for the past 25 years, as woody growth, mainly Quaking Aspen, Red Maple, and Gray Dogwood, continues to overtake the site. The number of flowering stalks, including those nipped by deer, averaged 72 per



year in the 1970s and 51 per year in the 1980s; this species was last seen here in 1991 and 1992, when only a single stalk was noted each year. An increase in woody cover is widespread in the study area (see the discussion of sandy meadows in the section on Plant Communities).

Certain weedy species, notably Crown-vetch and Bird's-foot Trefoil, are spreading from plantings for roadside stabilization and may be of increasing concern. A weed of even greater potential for homogenizing the ground cover of native plant communities, especially forests, is Garlic Mustard. This species was first noted in the study area in 1985 in Devil's Lake State Park in the park amphitheater near the north shore of the lake; by 1990 it had spread through the amphitheater woods and adjoining pine plantation by the Nature Center. By 1993 it was widespread in the park and had been found in several other wooded sites in the Baraboo Hills. By 1995, because of massive dispersion of its seeds by the Devil's Lake-Baraboo flood of July 1993, it had exploded in the park and along the drainage flowing past the park garage. Dame's Rocket did likewise in WSO Honey Creek Valley in 1994 and 1995. One other species of ecological concern, Purple Loosestrife, is another recent arrival, being first noted here in Delton Township in 1974. This wetlands invader also has the potential of converting native plant communities into monocultures. Two woody species, Asiatic Honeysuckle and Common Buckthorn, are also aggressive invaders of native communities, especially oak forests and woodlands.

In past years the landscape was fragmented and made less diverse mainly by agriculture and related activities and fire exclusion (Lange 1990). But now our ever-increasing disturbance of the land has taken on new dimensions. Expanded highway corridors, casino and resort development, subdivisions, and urban and industrial growth can only lead to further impoverishment of the native flora and an increase in weedy cover.

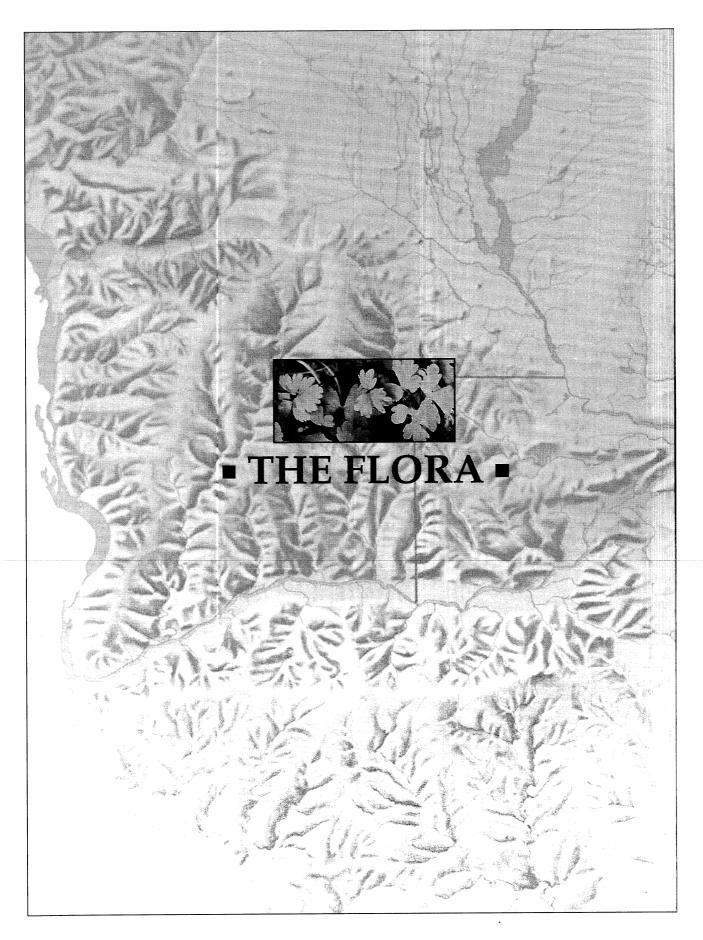


Table 10. Summary of vascular plants by family.^a

| Family | Genera | Native Species | Adventive and Naturalized Species | Family | Genera | Native Species | Adventive and Naturalized Species |
|--|----------------|-----------------------|--|--|---------------------------------------|-------------------|--|
| ■ Ferns and Fern Allies | | or ceres | - Species | Ceratophyllaceae | 1 | 2 | Species |
| Adiantaceae | 4 | 5 | | Chenopodiaceae | 5 | 4 | 排除 整 7 排除 |
| Aspleniaceae Azollaceae | 2 1 | 3 1 | S & G.L. Beetle | Cistaceae Clusiaceae | 3 2 | 6 8 | 4-7-4-6 |
| Dennstaedtiaceae | 1 | 1 | CONTRACTOR CONTRACTOR | Convolvulaceae | 4 | 6 | 3 |
| Dryopteridaceae Equisetaceae | 10 1 | 17 7 | | Cornaceae | 1 | 6 | |
| Isoetaceae | 1 | 2 | | Crassulaceae Cucurbitaceae | 2 2 | 1 2 | |
| Lycopodiaceae | 2 3 2 | 6 | a complete and participate | Elaeagnaceae | 2 | _ | 3 |
| Ophioglossaceae Osmundaceae | 1 | 6 3 | A DESCRIPTION | Ericaceae Euphorbiaceae | 11 5 | 16 9 | 3 |
| Polypodiaceae | 1 | 1 | | Fabaceae ⁵ | 24 | 30 | 19 |
| Selaginellaceae Thelypteridaceae | 1 2 | 1 3 | a confidential | Fagaceae Gentianaceae | 2 4 | 6 7 | 1 |
| ■ Gymnosperms | 2 | 3 | | Geraniaceae | 2 | 3 | 1 |
| Cupressaceae | 2 | 4 | | Haloragidaceae | 1 | 1.1 | |
| Pinaceae Taxaceae | 4 1 | 5 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Hamamelidaceae Hippocastanaceae | 1 | 1 | Gista Sea 1 di marca |
| ■ Monocots | 1 | 1 | | : Hydrophyllaceae | 1 | 1 | |
| Alismaceae | 2 | 5 | | Juglandaceae Lamiaceae ⁸ | 2 21 | 4 23 | 11 |
| Araceae | 4 | 5 | | Lentibulariaceae | 1 | 23 2 | |
| Commelinaceae Cyperaceae ² | 2 11 | 2 129 | 1 | Limnanthaceae Linaceae | 1 | 1 641444 (1) | composition and |
| Dioscoreaceae | 1 | 1 | ** *********************************** | Lythraceae | 3 | 3 | 1 |
| Hydrocharitaceae Iridaceae | 2 3 | 2 | 2 | Malvaceae | 5 | 2 | D 4 5 5 1 1 1 1 |
| Juncaceae | 2 | 14 | | MelastomataceaeMenispermaceae | 1 1 | 1 | |
| Lemnaceae Liliaceae ⁹ | 3 18 | 5 23 | and the contract of the second | Moraceae | 3 | 2 | 2 |
| Najadaceae | 10 1 | 25 2 | 6 | Myricaceae Nyctaginaceae | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1.00 | 2 |
| Orchidaceae | 12 | 27 | | Nymphaeaceae | 3 | 3 | |
| Poaceae ³ Pontederiaceae | 49 2 | 97 2 | 29 | Oleaceae Onagraceae | 2 4 | 3 11 | 1 |
| Potamogetonaceae | 1 | 15 | 1. | Orobanchaceae | 2 | 2 | Sensetti di |
| Smilacaceae Sparganiaceae | 1 | 4 3 | | Oxalidaceae | 1 | 3 3 4 | |
| Typhaceae | 1 | 2 | | Papavaraceae Phytolaccaceae | 5 1 | 5 1 | |
| Xyridaceae Zannichelliaceae | 1 | 1 | | Plantaginaceae | 1 | 2 | 3 |
| ■ Dicots | F 15 | Establish Line (1975) | | Platanaceae Polemoniaceae | 2 | 1 3 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Aceraceae | 1 | 5 | | Polygalaceae | A & 1 | | THE REPORT |
| Adoxaceae | 1.11.00 | 1 1 m | A MERCHANIST AND THE PROPERTY OF | Polygonaceae Portulacaceae | 3 | 18 2 | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Aizoaceae Amaranthaceae | 1 2 | 4 | 1 3 | Primulaceae | 5 | 11 | 1 |
| Anacardiaceae | 2 | 6 | | Ranunculaceae ¹⁰ | 12 | 27 | 1 |
| Apiaceae Apocynaceae | 17 2 | 19 2 | 4 1 | Rhamnaceae Rosaceae ⁴ | 2 15 | 3 55 | 2 6 |
| Aquifoliaceae | 2 | 2 | Contact of the second | Rubiaceae | 4 | 15 | |
| Araliaceae Aristolochiaceae | 2 | 5 1 | 4-25-20-38-20-38-20-0 | Rutaceae Salicaceae | 1 2 | 1 16 | 3 |
| Asclepiadaceae | 1 | 11 | 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Santalaceae | 1 | 1 | |
| Asteraceae ¹ Balsaminaceae | 56 | 120 | 42 | Sarraceniaceae Saxifragaceae | 1 8 | 1 11 | 3 |
| Berberidaceae | 1 4 | 2 | 2 | Scrophulariaceae ⁶ | 16 | 29 | 9 |
| Betulaceae | 5 | 9 | _ | Solanaceae Staphyleaceae | 2 | 3 | 3 |
| Bignoniaceae Boraginaceae | 1 | 9 | 2 | Thymelaeaceae | 1 | 1 | |
| Brassicaceae ⁷ | 20 | 19 | 17 | Tiliaceae | 1 | 1 | |
| Cactaceae Callitrichaceae | 1 1 | 2 2 | 5.5C.2.30 | Ulmaceae Urticaceae | 2 5 | 3 | 1 |
| Campanulaceae | 3 | 9 | 1 | Valerianaceae | 1 | 1 | 1 |
| Capparidaceae | 1 | 14 | A Company | Verbenaceae Violaceae | 3 1 | 7 16 | 1 |
| Caprifoliaceae Caryophyllaceae | 7 14 | 14 8 | 4 14 | Vitaceae | 2 | 4 | Est. |
| Celastraceae | 2 | 2 | and the state of t | Total 126 | 537 | 1,087 | 241 |

^a A superscript number, 1-10, after a given family name, indicates the 10 families with the most species, beginning with Asteraceae.

Analysis of the Flora

The flora totals 1,328 species: 1,087 native species and 241 non-native species; this equals 60% of the entire flora of Wisconsin. Table 10 summarizes the vascular plants by family and indicates the 10 families with the most species. In contrast, Table 11 classifies the flora by abundance code: scanning this table reveals that 23% of the vascular plants are common to abundant, and another 23% are rare or extirpated; the other species fall somewhere in between. The 13 genera with more than 10 species are listed in Table 12. A total of 5 native vascular plants is found in the study area only in Caledonia Township; these species are listed in Table 13.

Table 11. Vascular plants classified by abundance code.a

| | | | Ab | undanc | e Code | | |
|------------------------|---|-----|-----|--------|--------|----|--------|
| Species Type | 0 | 1 | 2 | 3 | 4 | 5 | Totals |
| Native | | | | | | | |
| Number of species | 8 | 201 | 268 | 374 | 182 | 54 | 1,087 |
| Percent of total flora | 1 | 15 | 20 | 28 | 14 | 4 | 82 |
| Adventive/naturalized | | | | | | | |
| Number of species | 2 | 96 | 46 | 39 | 21 | 37 | 241 |
| Percent of total flora | _ | 7 | 3 | 3 | 2 | 3 | 18 |

^a Defined on page 42.

Table 12. Genera of vascular plants with more than 10 species in the study area.

| Genus | Common Name | Number of species |
|-------------|---------------|-------------------|
| Carex | Sedges | 96 |
| Aster | Asters | 20 |
| Panicum | Panic Grasses | 19 |
| Polygonum | Smartweeds | 17 |
| Viola | Violets | 17 |
| Potamogeton | Pondweeds | 16 |
| Solidago | Goldenrods | 15 |
| Salix | Willows | 14 |
| Juncus | Rushes | 12 |
| Asclepias | Milkweeds | 11 |
| Crataegus | Hawthorns | 11 |
| Galium | Bedstraws | 11 |
| Helianthus | Sunflowers | 11 |

Table 13. Native vascular plants in the study area found only in Caledonia Township, Columbia County.

| Scientific name | Common name |
|--------------------------|---------------------|
| Agastache nepetoides | Yellow Giant-hyssop |
| Carex lupuliformis | _ |
| Cuscuta polygonorum | Dodder |
| Glyceria septentrionalis | Manna Grass |
| Silene stellata | Starry Campion |

Annotated Checklist

Format and Abbreviations

- The order in the checklist is alphabetical by family and then by genus and species within each family in the 4 major groups—ferns and their allies, gymnosperms, monocots, and dicots.
- When Wisconsin references exist for a given family or major group, they are listed after the family or group name. Usually these references are Preliminary Reports (PR) in the *Transactions of the Wisconsin Academy of Sciences, Arts and Letters* (Trans. WASAL).
- The distribution of a given taxon is indicated by the symbol ♦ in the appropriate locality column. The locality key is given at the bottom of the first page of the checklist (p. 43).
- Habitat notes and/or special comments are given for each taxon whenever possible.

Certain species have letters just to the left of their scientific names. These letters are keyed as follows:

- E = State Endangered. Any native species whose survival in Wisconsin has been determined to be in jeopardy by the Wisconsin Department of Natural Resources on the basis of scientific evidence.
- T = State Threatened. Any native species that appears likely to become endangered within the foreseeable future, as determined by the Wisconsin Department of Natural Resources on the basis of scientific evidence.
- SC= Special Concern. Potentially endangered or threatened native species.
- a = Adventive. Native to North America outside the study area, but now part of the flora.
- Naturalized. Native outside North America, but now part of the flora.
 Some transient species may be included here, as it is virtually impossible to know which introduced taxa will persist and spread.

In the final column the abundance of each taxon is expressed by an abundance code (AC) based upon the number of stations for the given taxon in the study area, as determined from herbarium records and field observations. This was arbitrarily defined as follows:

0 = records only for the past century (= extirpated)

1 = 1 to 3 stations (= rare)

2 = 4 to 12 stations (= uncommon)

3 = 13 to 50 stations (= fairly common)

4 = 51 to 100 stations (= common)

5 = more than 100 stations (= abundant)

For extirpated and rare species, the locations of herbarium specimens are indicated, using the following key:

WIS = University of Wisconsin-Madison

MIL = Milwaukee Public Museum

KL = author's herbarium

AC = Andy Clark's herbarium

| | | | | Loc | ality | and A | Abur | ndanc | e Cod | le ^a |
|---|-----------------------------|---|----------|----------|------------|----------|----------|------------|-----------------|-----------------|
| | | | вн | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co AC |
| FERNS AND FERN | ALLIES: Tryon et | al. 1953 | | | | | | | | |
| ADIANTACEAE MAIDENHAIR FERN FAN | MILY | | | | | | | | | |
| Adiantum pedatum L. | Northern Maidenhair Fern | Dry and especially mesic woods. | * | * | | * | * | | | → 4 |
| Cheilanthes feei Moore | Slender Lip Fern | Limey or limey sandstone cliffs and outcrops; in the Baraboo Hills confined to the west end of the South Range. | * | | | * | | | • • • • • • • • | ⇒ 2 |
| Cryptogramma stelleri (Gmel.) Prantl | Slender Cliff-brake | Sandstone or dolomite cliffs and outcrops, usually moist, within deciduous forest; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | | * | | | | \$ 2 |
| SC Pellaea atropurpurea (L.) Link | Purple Cliff-brake | Exposed limey or limey sandstone cliffs and outcrops. | * | | | * | | | | ♦ 3 |
| Pellaea glabella Kuhn | Smooth Cliff-brake | Exposed limey or sandy cliffs and outcrops; may pioneer on bridge abutments. | * | | | * | | | | \$ 3 |
| ASPLENIACEAE SPLEENWORT FAMILY | | | | | | | | | | |
| Asplenium platyneuron (L.) BSP. | Ebony Spleenwort | Drier deciduous and mixed forests, often where rocky; spreading in the Great Lakes region (Wagner and Johnson 1981). | | * | | * | | | | \$\dapprox 2\$ |
| SC Asplenium trichomanes L. | Maidenhair Spleenwort | Sandstone, quartzite, and rhyolite outcrops; sites vary from dry to moist. Especially numerous on sandstone ledges along the Wisconsin River just outside the study area (Wisconsin Department of Natural Resources 1997:17). North American distribution is shown by Moran (1982:8). | * | * | | | * | | | |
| Camptosorus rhizophyllus (L.) Link (Asplenium rhizophyllum L.) | Walking Fern | Mainly dolomite and sandstone rubble, sometimes quartzite or granite; sites are shaded and vary from dry to moist. In Devil's Lake State Park known only from the south bluff. Local. Listed in Kartesz (1994, 1:4) as Asplenium rhizophyllum L. | * | * | | * | * | | | \$ 3 |
| AZOLLACEAE MOSQUITO FERN FAMII | Y | | | | | | | | | |
| Azolla mexicana Presl | Mosquito Fern | Wisconsin River backwaters (Peck 1982:36). UW-La Crosse. | | ••••• | | * | ••••• | * | | † 1 |
| DENNSTAEDTIACEAE BRACKEN FERN FAMILY | | | | | | | | | | |
| Pteridium aquilinum (L.) Kuhn var. latiusculum (Desv.) Heller | Bracken Fern | Dry upland woods and adjacent fields, also low sandy woods. | * | * | | * | * | | | ф 5 |
| DRYOPTERIDACEAE WOOD FERN FAMILY | | | | | | | | | | |
| Athyrium filix-femina (L.) Roth ssp. angustum (Willd.) Clausen | Lady Fern | Dry and mesic woods, also lowland woods and marshy sites. | | * | | * | * | | | \$ 4 |

^a Key: BH = Baraboo Hills, DLSP = Devil's Lake State Park, DL Only = Devil's Lake only, including its shoreline, WU = Western Upland, CP = Central Plain, WR Only = Wisconsin River only, including the bottomlands, within the Western Upland and/or the Central Plain, C Only = Caledonia Township only, Sk Co = Sauk County, AC = Abundance Code

| | | | | Locality and Abundance Coo DL WR C BH DLSP Only WU CP Only Only | | | | | | | |
|--|----------------------|---|----------|---|----------|----------|-------------------|--------------|--|--|--|
| | | | ВН | | WU | CP | WR C Only Only | Sk Co A | | | |
| YOPTERIDACEAE OOD FERN FAMILY (co | mtinued) | | | | | | | | | | |
| Cystopteris bulbifera (L.) Bernh. | Bulblet Fern | Cool, shady, moist ravines and slopes, often rocky; deciduous and mixed forests. | | * | * | * | | · ♦ 3 | | | |
| Cystopteris fragilis (L.) Bernh. (incl. C. fragilis var. mackayi Laws. and C. protrusa (Weath.) Blasdell) | Fragile Fern | Habitats similar to Bulblet Fern, also in drier sites. | ···· | * | | * | | * | | | |
| Deparia acrostichoides (Sw.) M. Kato (Athyrium thelypterioides (Michx.) Desv.) | Silvery Glade Fern | Mesic forests, especially ravines with Sugar Maple; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | * | * | | | | | |
| Diplazium pycnocarpon (Spreng.) Broun (Athyrium pycnocarpon (Spreng.) Tidestr.) | Glade Fern | Known from 2 stations in the Baraboo Hills: Fox's Glen in Caledonia, where it was first reported in 1933, and a Baraboo River terrace at the base of a sandstone cliff in Freedom Township; rich mucky soil at both stations. In 1992 there were hundreds of plants at the Fox's Glen station and approximately one hundred plants at the Freedom station. WIS, KL. | * | | | | | → 1 | | | |
| Dryopteris carthusiana (Vill.) H.P. Fuchs (D. spinulosa (O.F. Muell.) Watt) | Spinulose Wood Fern | Mainly moist woods. | ····· | \$ | | * | | * | | | |
| Dryopteris cristata (L.) Gray | Crested Wood Fern | Sedge meadows, Alder thickets, Tamarack swamps, low sandy woods; mainly in the Central Plain. | | * | ♦ | * | | | | | |
| SC Dryopteris fragrans (L.) Schott var. remotiuscula Komarov | Fragrant Fern | Dry sandstone ledges and cliffs at Wisconsin Dells; distribution and ecology in the Dells discussed by Lange (1979). WIS. | | | | * | | * 1 | | | |
| Dryopteris goldiana (Goldie) Gray | Goldie's Fern | Ravines, north-facing bluffs, and Baraboo River terraces; ususally in deep, rich soil. | * | | * | | | | | | |
| Dryopteris intermedia (Willd.) Gray (D. spinulosa (O.F. Muell.) Watt var. intermedia (Willd.) Underw.) | Glandular Wood Fern | Mainly moist woods. | * | * | * | ♦ | | | | | |
| Dryopteris marginalis (L.) Gray | Marginal Shield Fern | Pioneering on sandstone and quartzite rubble; sometimes covering several acres or more of talus. Also forested sandstone and quartzite outcrops. | * | ♦ | ♦ | ♦ | | | | | |
| Dryopteris × triploidea Wherry [D. carthusiana × intermedia] | | Mapped by Peck and Taylor (1980:263) and Peck (1982:128), based on a 1955 collection from the Leopold Woods in Honey Creek Township. WIS. | * | | | | | ♦ 1 | | | |
| Gymnocarpium dryopteris (L.) Newm. | Oak Fern | Cool, shady, sandstone and quartzite outcrops and ravines. | ······· | * | * | | | ♦ 3 | | | |

| | | | | LO | carity | anu . | ADU | | e Coc | 16 | _ |
|---|--|---|--|--------------|---|----------|--------------|------------|---------------|-----------|-----------|
| | | | вн | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co | A |
| YOPTERIDACEAE OOD FERN FAMILY (co | ntinued) | | | | | | | | | | |
| Matteuccia struthiopteris (L.) Todaro | Ostrich Fern | Wooded lowlands, including seepage slopes; formerly at Devil's Lake State Park (Anon. 1906:26). | | | • | | * | | | * | |
| Onoclea sensibilis L. | Sensitive Fern | Wetlands: bogs, marshes, sedge meadows, sandy meadows, lowland thickets and woods, Tamarack swamps, river sloughs. | * | ♦ | | | * | | | * | 4 |
| SC Polystichum acrostichoides (Michx.) Schott | Christmas Fern | Known only from Pine Glen in Devil's Lake State Park, where discovered in 1978. The Sauk County record for this species cited by Hartley (1962:151, 152; 1966:25) is actually from Columbia County (West Point Township), across the Wisconsin River from Prairie du Sac (Fassett #20840, also Roberts et al., collected 5 June 1940). MIL, KL. | | ···········◆ | | | | | | * | 1 |
| Woodsia ilvensis (L.) R. Br. | Rusty Cliff Fern | Exposed sites on sandstone, quartzite, and rhyolite. | * | | • • • • • • • | | | | • • • • • • • | \$ | 4 |
| Woodsia obtusa (Spreng.) Torr. | Blunt-lobed Cliff Fern | Ecologically a shade counterpart (?) of W. ilvensis. | * | * | | * | * | ••••• | ••••• | \$ | 4 |
| UISETACEAE ORSETAIL FAMILY 2 54, 1965, Trans. WASAL | | | | | | | | | | | ٠. |
| Equisetum arvense L. | Field Horsetail | Lowland fields and woods, ditches, | ♦ | ♦ | | ♦ | ♦ | | | * | 3 |
| Equisetum arvense L. Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] | Field Horsetail | Lowland fields and woods, ditches, railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. | * | * | | \$ | ♦ | ••••• | ••••• | | |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] | Field Horsetail Water Horsetail | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. | | | | | | | | | |
| Equisetum × ferrissii Clute (pro sp.) | | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor | | * * | | * | | | | | |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. | Water Horsetail Common | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. | * | * | | * | * | | | | 2 |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. Equisetum hyemale L. Equisetum laevigatum A. Br. (E. kansanum | Water Horsetail Common Scouring-rush | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. Cool, moist to wet, sandy woods. | * | * | | * | * | | | * | 2 |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. Equisetum hyemale L. Equisetum laevigatum A. Br. (E. kansanum Schaffn.) Equisetum pratense | Water Horsetail Common Scouring-rush Smooth Scouring-rush | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. | * | * | | * | * | | | * | 1 2 3 |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. Equisetum hyemale L. Equisetum laevigatum A. Br. (E. kansanum Schaffn.) Equisetum pratense Ehrh. Equisetum scirpoides | Water Horsetail Common Scouring-rush Smooth Scouring-rush Meadow Horsetail | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. Cool, moist to wet, sandy woods. Known only from Lodde's Mill Bluff in | * | * | | * | * | | | * | 3 2 2 2 2 |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. Equisetum hyemale L. Equisetum laevigatum A. Br. (E. kansanum Schaffn.) Equisetum pratense Ehrh. Equisetum scirpoides Michx. | Water Horsetail Common Scouring-rush Smooth Scouring-rush Meadow Horsetail Dwarf Scouring-rush | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. Cool, moist to wet, sandy woods. Known only from Lodde's Mill Bluff in Prairie du Sac Township. WIS. Cool, springy woods, also Tamarack | ************************************** | * | | * | * | | | * | 2 2 |
| Equisetum × ferrissii Clute (pro sp.) [E. hyemale × laevigatum] Equisetum fluviatile L. Equisetum hyemale L. Equisetum laevigatum A. Br. (E. kansanum Schaffn.) Equisetum pratense Ehrh. Equisetum scirpoides Michx. Equisetum sylvaticum L. | Water Horsetail Common Scouring-rush Smooth Scouring-rush Meadow Horsetail Dwarf Scouring-rush | railroad embankments. Collected on a roadside in Section 11, T9N, R3E. Mapped by Peck and Taylor (1980:264) and Peck (1982:77). WIS. Lowland woods and marshy habitats. Moister sites in deciduous and mixed woods, also railroad embankments, roadsides. Sandy fields, ditches. Cool, moist to wet, sandy woods. Known only from Lodde's Mill Bluff in Prairie du Sac Township. WIS. Cool, springy woods, also Tamarack | ************************************** | * | | * | * | | | * | 2 2 |

| | | | Locality and Abundance Code | | | | | | |
|---|------------------------------|--|-----------------------------|-----------------|----------|-----------|------------|-------------|------------|
| | | | вн | DL DLSP Only | WU | CP | WR Only | C Only | Sk Co A |
| COPODIACEAE .UBMOSS FAMILY .4, 1930, Trans. WASAL 25 | 5:1 69- 75 | | | | | | | | |
| Huperzia lucidula (Michx.) Trevisan (Lycopodium lucidulum Michx.) | Shining Clubmoss | Cool, moist to wet, acidic, and shaded sites; most numerous under Hemlocks and by springs. | * | * | * | * | | | * |
| SC Huperzia porophila (Lloyd & Underw.) Holub (Lycopodium porophilum Lloyd & Underw.) | Rock Clubmoss | Sandstone outcrops within coniferous or mixed forest; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | * | | • | | * |
| Huperzia lucidula × porophila | | Mixed populations of Huperzia lucidula and H. lucidula × H. porophila (Rocky Arbor State Park, Parfrey's Glen) and H. lucidula, H. porophila, and their putative hybrids (Honey Creek cliffs) were studied by Waterway (1986). | * | * | | * | | | * |
| Lycopodium clavatum L. | Running Clubmoss | Dry sandy woods, low sandy woods. | * | | * | * | | | * |
| Lycopodium digitatum A. Br. (L. flabelliforme (Fern.) Blanch. | Crowfoot Clubmoss | Dry sandy woods, low sandy woods. | * | * | * | | ••••• | • • • • • • | \$ |
| Lycopodium obscurum L. (incl. L. dendroideum Michx.; L. hickeyi Wagner, Beitel & Moran) | Groundpine | Dry oak and oak-pine woods, low sandy woods, sphagnous deciduous thickets. | * | * | * | * | | | * |
| Lycopodium tristachyum Pursh | Ground-cedar Clubmoss | Known only from the Lower Dells; dry sandy woods. WIS. | , | | | ····· | | | * |
| PHIOGLOSSACEAE DDER'S-TONGUE FAMI | ILY | | | | | | | | |
| Botrychium dissectum Spreng. forma dissectum (B. dissectum Spreng. var. dissectum) | Dissected Grape Fern | Dry upland woods, mesic woods, low sandy woods. Each taxon is usually represented by just (1) 2-6 fronds at a given station; generally the 2 forms grow together, but sometimes (especially obliquum) singly. | * | * | | * | | | * |
| forma obliquum (Muhl.) Fern. (B. dissectum var. obliquum (Willd.) Clute) | Oblique Grape Fern | | \$ | \$ | * | \$ | | | * |
| Botrychium lanceolatum (Gmel.) Angs. var. angustisegmentum Pease & Moore | Lance-leaved Grape Fern | Along streamlets in mesic woods in the Baxter's Hollow drainage. Usually found as scattered plants, with other grape ferns. AC. | * | | | | | | * |
| Botrychium matricariifolium (Dowell) Koch | Daisy-leaved Grape Fern | Mesic and dry woods; generally in rich soil. May number in the thousands at some stations. | * | | | | | | * |
| Botrychium multifidum (Gmel.) Trev. | Leather-leaved Grape Fern | Upland woods and adjacent fields, including abandoned orchards. UW-La Crosse, KL. | * | | | * | | | * |
| SC Botrychium oneidense (Gilb.) House | Blunt-lobed Grape Fern | Mesic woods. WIS. | \$ | \$ | | | | | \$ |
| Botrychium virginianum (L.) Sw. | Rattlesnake Fern | Dry and mesic woods. | | * | | \$ | | | |

| | | | | Local | ity | and | Abu | ndan | ce Co | le | |
|---|-------------------|--|----------|-----------|-----------|----------|----------|------------|---|----------|----|
| | | | вн | DLSP Or | | WU | СР | WR Only | C Only | Sk Co | AC |
| OSMUNDACEAE ROYAL FERN FAMILY | | | | | | | | | | | |
| Osmunda cinnamomea L. | Cinnamon Fern | Relatively wet sites, including bogs, sedge meadows, low sandy woods, Alder thickets, Tamarack swamps. | * | * | • • • • • | * | | | • • • • • • • | * | 3 |
| Osmunda claytoniana L. | Interrupted Fern | Damp sites in dry to mesic woods, also wet thickets, but typically in sites not as wet as those in which Cinnamon Fern grows; colonies often cover wooded hillsides, particularly when they are not too wet or too stony. | * | * | | * | * | | | * | 4 |
| Osmunda regalis L. var. spectabilis (Willd.) Gray | Royal Fern | Relatively wet sites, including sedge meadows, low sandy woods, low thickets, Tamarack swamps. | * | | | * | * | | | * | 3 |
| POLYPODIACEAE POLYPODY FAMILY | | | | | | | | | | | |
| Polypodium virginianum L. (P. vulgare L. var. virginianum (L.) A.A. Eat.) | Rock Fern | Like <i>Dryopteris marginalis</i> , Rock Fern pioneers on acidic rock, often covering several acres of rubble; sites vary from damp to dry. | ····· | * | | * | | | • | * | 4 |
| SELAGINELLACEAE SPIKEMOSS FAMILY PR 4, 1930, Trans. WASAL 2 | 25:169-75 | | | | | | | | | | |
| Selaginella rupestris (L.) Spring | Rock Spikemoss | Acidic, usually rocky sites where sunny and dry: quartzite and rhyolite glades, sandstone outcrops, also sand. | * | . | | * | | | | * | 4 |
| THELYPTERIDACEAE BEECH FERN FAMILY | | | | | | | | | | | |
| Phegopteris connectilis (Michx.) Watt (Dryopteris phegopteris (L.) C. Christens.) | Narrow Beech Fern | Sandstone cliffs and associated rocky slopes in ravines in mixed forests; in Devil's Lake State Park known only from Parfrey's Glen. | * | \$ | | ♦ | ♦ | | | * | 3 |
| SC Phegopteris hexagonoptera (Michx.) Fée (Dryopteris hexagonoptera (Michx.) C. Christens.) | Broad Beech Fern | Known from 2 stations in the Baraboo Hills: a Sugar Maple-Yellow Birch forest in Devil's Lake State Park, and a mesic woods in a sandstone ravine in Baxter's Hollow; in 1992 there were approximately 300 fronds at the Devil's Lake station and approximately 200 at the Baxter's Hollow station. WIS, KL. | | * | | | | | | * | 1 |
| Thelypteris palustris Schott var. pubescens (Laws.) Fern. | Marsh Fern | Low meadows, sandy meadows, fens, bogs, low sandy woods, low thickets, Tamarack swamps, hardwood swamps. | * | * | • • • • | * | * | | | * | 4 |

| | | | | Lo | cality | and A | Abur | ndanc | e Cod | |
|--|-----------------------|--|----------|--------------------------------------|------------|----------|----------|---------------|-----------|-------------------------------|
| | | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co AC |
| MNOSPERMS | | | | | | | | | | |
| PRESSACEAE (PRESS FAMILY . 5, 1930, Trans. WASAL 2 | 25:180-82 | | | | | | | | | |
| Juniperus communis L. (incl. var. depressa Pursh) | Common Juniper | Open or thinly wooded, generally dry sites in a variety of soils. | * | * | | | * | | | \$ 4 |
| Juniperus horizontalis Moench | Creeping Juniper | Dry limey or limey sandstone hills, where typically associated with <i>J. communis</i> and <i>J. virginiana</i> . | * | | | * | * | • • • • • • • | •••••• | |
| Juniperus virginiana L. | Eastern Red Cedar | An invader of fields and hillsides, especially those that have been grazed and then abandoned; stabilized roadcuts. Also quartzite and rhyolite glades, dry outcrops of limestone and sandstone. May form thickets and glades in the absence of fire. | * | * | ••••• | * | * | •••••• | | ♦ 5 |
| Thuja occidentalis L. | Eastern White Cedar | Along the Wisconsin River near the mouth of Dell Creek and in the Wisconsin Dells area; White Cedars elsewhere have been planted and in some places are spreading via seedlings. | | | | | * | | | † 1 |
| LACEAE | | | | | | | | | | |
| IACEAE NE FAMILY 15, 1930, Trans. WASAL 1 | , | | | | | | | | | |
| NE FAMILY | 25:177-81 Tamarack | Along Leech Creek in T12N, R7E, especially in the Lower Narrows swamp, now a muck farm; several places in the Honey Creek drainage; a number of areas in the vicinity of Lake Delton and Wisconsin Dells, Rock Springs, Reedsburg, and LaValle (Figure 27). | ······ | | | ····· | | · · · · · · · | | ÷ 2 |
| NE FAMILY 15, 1930, Trans. WASAL : Larix laricina | , | especially in the Lower Narrows swamp, now a muck farm; several places in the Honey Creek drainage; a number of areas in the vicinity of Lake Delton and Wisconsin Dells, Rock Springs, Reedsburg, | | ······ | | ···· | * | | | 22 |
| NE FAMILY 1. 5, 1930, Trans. WASAL Larix laricina (Du Roi) K. Koch The Picea abies (L.) | Tamarack | especially in the Lower Narrows swamp, now a muck farm; several places in the Honey Creek drainage; a number of areas in the vicinity of Lake Delton and Wisconsin Dells, Rock Springs, Reedsburg, and LaValle (Figure 27). An ornamental tree, which appears to be | | ************************************ | | * | * | | | |

| | | | | Lo | cality | and | Abu | ndano | e Coc | le |
|---|-----------------|---|----------|--------------|------------|-----------|----------|---------------|---------------|--------------|
| | | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co A |
| NACEAE INE FAMILY (continued) | | | | | | | | | | |
| Pinus strobus L. | White Pine | Because of its abundance and wide distribution, imparting a northern appearance to much of the study area; characteristic of rock outcrops and boulder fields. Often under White Oaks; also low sandy woods, Tamarack swamps, Alder thickets. | | ···········◆ | | * | * | | | → 5 |
| Tsuga canadensis (L.) Carr. | Eastern Hemlock | An important dominant of northern forests, considered relic in the study area (after R.P. McIntosh 1950), where the largest stand is located on north-facing slopes on the west side of the Upper Narrows; in the Baraboo Hills also on sandstone outcrops along the Baraboo River above and below North Freedom, and on the south side of the South Range in Pine Hollow, Hemlock Draw, and the Wisconsin Society for Ornithology's Honey Creek Valley. In the Western Upland and Central Plain mainly on sandstone cliffs, rarely Alder thickets. | * | | | * | * | | | → 2 |
| AXACEAE EW FAMILY R 5, 1930, Trans. WASAL | 25:177-78 | | | | | | | | | |
| Taxus canadensis Marsh. | American Yew | Most numerous in the Upper Narrows Hemlocks, where extending over a linear distance of approximately one-half mile. In Devil's Lake State Park confined to several stations on the north face of the south bluff, 1 to 6 plants at each station, and in the Western Upland known from sandstone cliffs and associated wetlands, for example Alder thickets. | * | * | | \$ | | | | \$\dagge 2\$ |
| IONOCOTS | | | | | | | | | | |
| LISMACEAE (ALISMATA VATER-PLANTAIN FAM PR 1, 1929, Trans. WASAL 2 | ILY | | | | | | | | | |
| Alisma plantago- aquatica L. | Water-plantain | Pioneering in open wet sites, including shallow water. | . | | | | * | • • • • • • • | • • • • • • • | ♦ 4 |
| Sagittaria cuneata Sheldon | Arrowhead | Wisconsin River sloughs and shores. WIS, Leopold Reserve Herbarium. | | | ••••• | * | * | * | | ♦ 1 |
| Sagittaria graminea Michx. (incl. S. cristata Engelm.) | Arrowhead | Mudflats and marshy shores. KL. | | * | * | | * | | • • • • • • • | ♦ 1 |
| Sagittaria latifolia Willd. | Arrowhead | Wet sandbars, marshy sloughs, sedge meadows, Alder thickets, cat-tail marshes; often in shallow water. | * | * | | * | | | | ♦ 4 |
| | Arrowhead | Mudflats and marshy shores; local. | | | ♦ | | | | | 2 |

| | | | | Locality | ana . | Abui | idance | Coa | <u> </u> |
|---|--|--|--|-----------------|----------------|------------|---|-------------|---|
| | | | ВН | DL DLSP Only | WU | СР | WR Only C | C Only | Sk Co AC |
| RACEAE ARUM FAMILY PR 25, 1937, Trans. WASAL | 30:17, 19 | | | | | | | | |
| Acorus americanus (Raf.) Raf. (A. calamus L.) | Sweet-flag | Marshy shores, sedge meadows, fens; local. | * | | | * | | | |
| Arisaema dracontium (L.) Schott | Green Dragon | Wisconsin River bottomland forests and associated sedge meadows; Baraboo River lowland forests, upriver to at least Section 17 in LaValle Township; and (an 1892 collection) Devil's Lake. | * | * | * | * | | ••••• | |
| Arisaema triphyllum (L.) Schott | Jack-in-the-pulpit | Dry and mesic woods, also deciduous swamps, Hemlock stands. | | * | * | * | | • • • • • • | |
| Calla palustris L. | Wild Calla | Lowland sphagnous woods, Tamarack swamps, marshy edges of creeks and lakes in sandy soil. Formerly at Devil's Lake (Anon. 1906:26). | ••••• | | | * | | • • • • • | ♦ 2 |
| Symplocarpus foetidus (L.) Nutt. | Skunk-cabbage | Seepy, mucky areas in drainageways, including overgrown creek bottoms and wooded ravines, also low thickets, Tamarack swamps, bogs, sedge meadows, fens. | * | * | * | * | | | |
| OMMELINACEAE | | | | | | | | | |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL | | | | | | | | | |
| SPIDERWORT FAMILY | . Dayflower | Weedy sites. | | | | ····· | | | \$ 2 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL | | Weedy sites. Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. | ········ | * | ··········· | \$ | | | ♦ 2♦ 2 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. | . Dayflower | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only | * | * | * | \$ | | | ♦ 2♦ 2♦ 4 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. CYPERACEAE SEDGE FAMILY | Dayflower Dayflower Spiderwort | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. | | * | | | | | |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. CYPERACEAE SEDGE FAMILY PR 37, 1953, Trans. WASAL Bulbostylis capillaris | Dayflower Dayflower Spiderwort | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. rans. WASAL 62:261-84 Dry, sandy, open ground, including Devil's | ····· | * | * | | | | ·········· 4 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. CYPERACEAE SEDGE FAMILY PR 37, 1953, Trans. WASAL Bulbostylis capillaris (L.) C.B. Clarke | Dayflower Dayflower Spiderwort 42:47-67; PR 66, 1974, T | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. rans. WASAL 62:261-84 Dry, sandy, open ground, including Devil's Lake bluff prairies. Known only from Devil's Lake State Park— | * | | * | | | | → 4 → 2 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. CYPERACEAE SEDGE FAMILY PR 37, 1953, Trans. WASAL Bulbostylis capillaris (L.) C.B. Clarke Carex aenea Fern. SC Carex albicans Spreng var. albicans (C. artitecta Mackenz) | Dayflower Dayflower Spiderwort .42:47-67; PR 66, 1974, Tr | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. rans. WASAL 62:261-84 Dry, sandy, open ground, including Devil's Lake bluff prairies. Known only from Devil's Lake State Park—seepy places in an abandoned quarry. WIS. In Wisconsin known only from dry woods and quartzite talus in Devil's Lake State Park; first collected in 1926. WIS. | * | * | * | ······ | • | | ♦ 4♦ 2♦ 1 |
| SPIDERWORT FAMILY PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. CYPERACEAE SEDGE FAMILY PR 37, 1953, Trans. WASAL Bulbostylis capillaris (L.) C.B. Clarke Carex aenea Fern. SC Carex albicans Spreng var. albicans (C. artitecta Mackenz.) Carex albursina Sheldon | Dayflower Dayflower Spiderwort .42:47-67; PR 66, 1974, T | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. rans. WASAL 62:261-84 Dry, sandy, open ground, including Devil's Lake bluff prairies. Known only from Devil's Lake State Park—seepy places in an abandoned quarry. WIS. In Wisconsin known only from dry woods and quartzite talus in Devil's Lake State Park; first collected in 1926. WIS. Mesic forests and Hemlock stands. | * | * * * * | * | * | | | ♦ 4 ♦ 2 ♦ 1 ♦ 3 |
| PR 16, 1932, Trans. WASAL in Commelina communis L. SC Commelina erecta L. var. deamiana Fern. Tradescantia ohiensis Raf. EYPERACEAE SEDGE FAMILY PR 37, 1953, Trans. WASAL Bulbostylis capillaris (L.) C.B. Clarke Carex aenea Fern. SC Carex albicans Spreng var. albicans (C. artitecta Mackenz.) Carex albursina Sheldon Carex alopecoidea Tuckerm | Dayflower Dayflower Spiderwort .42:47-67; PR 66, 1974, Tr | Limey or (rarely) sandy bluff prairies, also sandy-gravelly roadsides at bases of limey outcrops. In Wisconsin known only from Sauk County. Prairies in a variety of soils; may persist and flower in the more open oak woods but generally weak-stemmed. Also along railroads and roads. rans. WASAL 62:261-84 Dry, sandy, open ground, including Devil's Lake bluff prairies. Known only from Devil's Lake State Park—seepy places in an abandoned quarry. WIS. In Wisconsin known only from dry woods and quartzite talus in Devil's Lake State Park; first collected in 1926. WIS. Mesic forests and Hemlock stands. Known only from the Wisconsin River by Ferry Bluff. WIS. | ************************************** | * * * * * | * * * * | * | | | ♦ 4 ♦ 1 ♦ 3 ♦ 1 |

| | | | ВН | DLSP Or | | CP | WR Only | C Only | Sk Co | AC |
|--|-------------------|--|----------|--------------|--|--------------|-----------------|---------------|----------|----|
| CYPERACEAE SEDGE FAMILY (continue) | d) | | | | | | | | | |
| Carex annectens (Bickn.) Bickn. (C. annectens var. xanthocarpa (Kük.) Wieg.) | | Low meadows and sandy meadows, also dry sandy fields. | ♦ | ············ | | * | | | | 3 |
| Carex aquatilis Wahlenb. | | Alkaline meadows in Merrimac Township. KL. | | | | | ········ | | ····· | 1 |
| Carex arcta Boott | | Known only from the Leopold Reserve in Fairfield Township. MIL. | | | | * | | | * | 1 |
| Carex arctata Boott | | Mesic woods and low sandy woods. | ····· | | | . | | | | 2 |
| Carex atherodes Spreng. | | Cat-tail marshes, willow swamps; often in shallow water. | | * | ••••• | | | | | 2 |
| SC Carex backii Boott | | Relatively dry, sandy or limey woods. AC. | | | | | | | | 2 |
| Carex bebbii (Bailey) Fern. | | Low meadows, fens, also ditches, roadsides. | | | | | | | ♦ | 2 |
| Carex bicknellii Britt. | | Dry prairies and Red Cedar glades in a variety of soils. | * | * | | | | | ····· | 4 |
| Carex blanda Dew. | | Dry to wet deciduous woods. | ⊹ | | ······· | ♦ | | • • • • • • • | ····· | |
| Carex brevior (Dew.) Mackenz. | | Dry prairies, sandy meadows. | | * | > | | • • • • • • • • | ••••• | | 2 |
| Carex bromoides Willd. | | Wet woods and swamps. | ······· | | ······· | \$ | | | ····· | |
| Carex brunnescens (Pers.) Poir. | | Damp forests, Tamarack swamps, wet thickets, sedge meadows; southernmost Wisconsin stations are in Sauk County. | ♦ | | | . | | •••••• | ····· | 3 |
| Carex buxbaumii Wahlenb. | | Sandy meadows, sedge meadows, loamy prairies, also sphagnum patches in low sandy woods. | ***** | | | | • • • • • • • | | * | 2 |
| Carex canescens L. | | Low sandy woods and edges, also Tamarack swamps and Alder thickets. In the Baraboo Hills known only from Honey Creek Valley. | * | | A. A | * | | | * | 2 |
| Carex cephaloidea (Dew.) Dew. | | Mesic forests, wet woods. | * | * | > | | | | * | 3 |
| Carex cephalophora Willd. | ••••• | Mainly dry deciduous woods and quartzite glades, sometimes lowland woods. | * | * | | * | | ••••• | * | 4 |
| Carex communis Bailey | | Cooler sites in deciduous and mixed forests; local. | * | | | | | ••••• | * | 3 |
| Carex comosa Boott | Bottlebrush Sedge | Sedge meadows, cat-tail marshes, marshy drainageways, marshy edges of ponds and lakes. | | | | * | | | * | 3 |
| Carex conoidea Willd. | ••••• | Low meadows, sandy meadows, cat-tail marshes, fens, loamy prairies. | ••••• | * | • • • • • • • • • | ♦ | | ••••• | * | 3 |
| Carex crawfordii Fern. | | Known only from the marshy border of Devil's Lake, its southern range limit in Wisconsin. J.H. Zimmerman Herbarium. | | * * | | | | | * | 1 |
| Carex crinita Lam. (incl. var. gynandra (Schwein.) Schwein. & Torr.) | Fringed Sedge | Wet woods and deciduous swamps, seepy and wet areas and heads of drainages within deciduous woods, marshy areas bordering low woods. | * | * | * | * | | | * | 3 |

| | | | Locality | and . | Abu | ndance | Cod | le |
|--|--|-----------|-----------------|-------------|----------|------------|-------------|--|
| | | ВН | DL DLSP Only | WU | СР | WR Only | C Only | Sk Co AC |
| | | | | | - | | | |
| PERACEAE DGE FAMILY (continued) | | • | | | | | | |
| Carex cristatella Britt. | Wooded creek bottoms, damp to wet areas in deciduous woods, low meadows. | | ♦ | | * | | • • • • • • | * 3 |
| Carex davisii Schwein. & Torr. | Deciduous swamps along the Wisconsin River, and up the Baraboo River to at least Section 19 in T12N, R9E. | | | * | * | * | ••••• | |
| Carex debilis Michx. var. rudgei Bailey | Tamarack swamps, low thickets, low meadows, sandy meadows, wooded sandstone cliffs. | | | * | | | ••••• | |
| Carex deweyana Schwein. | Deciduous and mixed mesic forests, Hemlock stands. | ······ | | | | | ••••• | * 3 |
| | | | | | | | • • • • • • | |
| Carex digitalis Willd. Carex disperma Dew. | Known only from Honey Creek Valley. WIS. Tamarack swamps in Dellona and Delton | | | • • • • • • | ······ | | | ♦ 1♦ 1 |
| Carex eburnea Boott | Townships. KL. Limey hill prairies and thinly wooded limey bluffs; often under Red Cedar. | ••••• | | ····· | | | | * 3 |
| Carex echinata Murr. ssp. echinata (C. cephalantha (Bailey) Bickn.) | Rarely in dry open sand. Low sandy woods and edges, also low meadows. | | | | | | ••••• | |
| Carex emoryi Dew. | Mainly deciduous swamps along the Wisconsin River and up the Baraboo River for several miles, also (Section 2, SW 1/4 of SE 1/4, T10N, R4E) along Honey Creek in Honey Creek Valley. | ···· | | * | ······ | ·····÷ | | ÷ 2 |
| Carex foenea Willd. (C. siccata Dew.) | Dry open woods and fields in a variety of soils. | ••••• | * | * | * | | | |
| Carex gracillima Schwein. | Moist to wet forests, low sandy woods, Hemlock stands, wooded sandstone cliffs. | * | | * | * | | | |
| Carex granularis Willd. | Alkaline meadows and fens; in the Baraboo Hills known only from an Alder-Black Ash Swamp on the Wisconsin Society for Ornithology's Honey Creek property. WIS, KL. | ····÷ | | | . | | | ↑ 1 |
| Carex gravida Bailey (incl. var. lunelliana (Mackenz.) F.J. Herm.) | Sandy fields and roadsides. WIS. | | | * | | | | * 1 |
| Carex grayi Carey | Deciduous swamps along the Wisconsin River and up the Baraboo River to at least the Upper Narrows (T12N, R5E, Sections 29 and 30). An 1860 collection from Devil's Lake. | ♦ | | * | | | | |
| Carex haydenii Dew. | Low meadows, loamy prairies, low sandy woods. | * | * | • • • • • • | * | | | |
| Carex hirtifolia Mackenz. | Mesic forests and Hemlock stands. | | * | * | | | | \$ 3 |
| Carex hitchcockiana Dew. | Sugar Maple-Basswood forests. KL. | ····· | | | | | | |
| Carex hystericina Willd. (C. hystricina | Sedge meadows, marshy edges of creeks and ponds, alkaline meadows and fens, | . | | | * | | | ⋄ 3 |
| Muhl.) Carex interior Bailey | Alder thickets, wet sandstone cliffs. Low meadows, Alder thickets. | | ····· | | | | | |

| | | вн | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co AC |
|---|--|----------|---------------|------------|----------|----------|------------|---------------|-------------|
| CYPERACEAE | | | | | | | | | |
| SEDGE FAMILY (continued) | | | | | | | | | |
| Carex intumescens Rudge | Damp to wet woods, open marshy areas within mesic woods, low sandy areas, Tamarack swamps. | | | | * | * | | | |
| Carex jamesii Schw. | Dry limey woods; in the Baraboo Hills known only from the west end of the South Range. KL, AC. | ····· | • • • • • • • | | ······ | | | | * 1 |
| Carex lacustris Willd. Saw-grass | Sedge meadows, low meadows, swales in sandy meadows, alkaline meadows, cat-tail marshes, Tamarack swamps; generally in deeper water (Figure 29). | | ········ | | * | * | | | |
| Carex lanuginosa Michx. | Alkaline meadows and fens, loamy prairies, also sedge meadows and associated swamp timber, cat-tail marshes, and (rarely) dry sites. | ···· | | | | * | | | |
| Carex lasiocarpa Ehrh. Wire-grass var. americana Fern. | Sedge meadows and alkaline meadows; mainly in the Central Plain. | * | | | | * | | ••••• | ♦ 2 |
| Carex laxiculmis Schwein. | Rich deciduous woods; known only from the Wisconsin Society for Ornithology Honey Creek area. WIS. | * | | | | ••••• | | | \$ 1 |
| Carex leptalea Wahlenb. | Tamarack swamps, Alder thickets, low sandy woods, sedge meadows, fens; mainly in the Central Plain. Known from Devil's Lake State Park only from an early (undated) collection by Thure Kumlien. | * | * | | * | * | | | ♦ 3 |
| Carex leptonervia (Fern.) Fern. | Mesic woods and Hemlock stands, usually damp to wet. | * | * | | * | | ••••• | | \$ 2 |
| E Carex lupuliformis Dew. | Lower Baraboo River sloughs, where first collected in 1975; still there in 1990—along the edge of a pool in alluvial forest. In | ••••• | | ••••• | | * | * | * | 1 |
| | Wisconsin also known from the southeastern part of the state (Wisconsin Department of Natural Resources 1993b:20). This is one of the 5 native species known only from Caledonia Township (Table 13). WIS, AC. | | | | | | | | |
| Carex lupulina Willd. Hops Sedge | Deciduous swamps along the Wisconsin River and up the Baraboo River for several miles. | ••••• | • • • • • • • | | * | * | * | ••••• | ♦ 3 |
| Carex lurida Wahlenb. | Alder thickets, sedge meadows. WIS. | | | | | ····· | * | | † 1 |
| Carex meadii Dew. | Dry prairies, mainly sandy, and adjacent thinly wooded sites, also sandy meadows. | ••••• | | | * | * | | | * 2 |
| Carex muhlenbergii Willd. | Dry prairies, mainly sandy, open sand barrens. | * | * | | * | * | | • • • • • • • | \$ 2 |
| Carex muskingumensis Schwein. | Deciduous swamps along the Wisconsin River and up the Baraboo River to at least Section 34 in T12N, R6E. | •••• | • • • • • • • | ••••• | * | * | * | | * 2 |
| Carex normalis Mackenz. | Deciduous forests, often edges or weedy sites. | * | * | | * | * | | | ♦ 3 |
| Carex oligocarpa Willd. | Sugar Maple-Basswood forests. KL. | * | | | | | | | † 1 |
| Carex oligosperma Wire-grass Michx. | Sphagnous sedge meadows in Dellona and Delton Townships; sometimes the dominant species (Figure 30). | | | | | * | | | \$ 2 |

| | | | Locality | and | Abui | ndance | Cod | le |
|--|---|----------|-----------------|----------|----------|------------|-------------|----------------|
| | · | ВН | DL DLSP Only | wu | CP | WR Only | C Only | Sk Co AC |
| PERACEAE EDGE FAMILY (continued) | | | | | | | | |
| Carex ormostachya Wieg. (C. laxiflora Lam. var. ormostachya (Wieg.) Gleason) | Dry limey woods. AC. | | | * | | | • • • • • • | |
| Carex peckii Howe | Dev limov woods WIS | | | ······ | | | | |
| Carex pedunculata | Dry limey woods. WIS. | | | | | | | ♦ 1 |
| Willd. | Mesic woods, swamps, Hemlock stands. | ❖ | ♦ | ♦ | | | | ♦ 2 |
| Carex pensylvanica Pennsylvania Sedge Lam. | The most abundant sedge in the study area: mainly dry sites, rarely moist, in a variety of soils in sun and shade; often the dominant ground cover in sandy woods. | * | ÷ | | . | | | → 5 |
| Carex plantaginea Lam. | Mesic deciduous and mixed forests. | * | | * | | | | |
| ^a Carex praegracilis W. Boott | Pavements and roadsides in the Badger Army Ammunition Plant, where noted in 1993. A salt- and drought-tolerant western species that has been rapidly expanding its range in recent years, largely because of the application of salt for de-icing roads (Catling and McKay 1980:250, Reznicek and Catling 1987). "Exploded" in the 1970s along highways in the Chicago region, especially in areas of high salinity (Swink and Wilhelm 1994:213). AC. | | | | | | | → 1 |
| Carex prairea Dew. | Fens and cat-tail marshes in Fairfield Township, alkaline meadows in Merrimac Township. KL. | , | | | * | | | † 1 |
| T Carex prasina Drooping Sedge Wahlenb. | Seepy, mucky sites with rich black soil along drainages in deciduous and mixed forests. Common associates are Skunkcabbage, Spotted Touch-me-not, and Water-pennywort (Figure 46). | * | * | | ••••• | | ••••• | ♦ 3 |
| Carex projecta Mackenz. | Deciduous swamps along the Wisconsin River, also drainages in wooded ravines in the Baraboo Hills and sedge meadows in the Central Plain. | * | | ······· | | | | ♦ 2 |
| Carex radiata (Wahlenb.) Small (C. rosea Willd.) | Generally wetter habitats, for example lowland deciduous forests and Tamarack swamps, than the closely related <i>C. rosea</i> (<i>C. convoluta</i>). | * | * | * | * | | | ♦ 3 |
| Carex retrorsa Schwein. | Deciduous swamps, marshy river sloughs, | | | | | | | |
| Schwein. SC Carex richardsonii R. Br. | | | | | | | | |
| Carex rosea Willd. (C. convoluta Mackenz.) | | | * | ······ | | | | |
| Carex rostrata Stokes | Sedge meadows (the dominant species in some cases), low sandy woods, Tamarack swamps, Alder thickets, cat-tail marshes, fens; mainly in the Central Plain. | * | * | | * | | | ♦ 3 |

| | | ВН | DL DLSP Only | wu | CP | WR Only | C Only | Sk Co | |
|---|--|-----------|-----------------|-----------|-----------|-------------|-----------|-----------|-----|
| PERACEAE | | | | | | | | | |
| EDGE FAMILY (continued) | | | | | | | | | |
| Carex rugosperma Mackenz. (incl. C. tonsa (Fern.) Bickn.) | Dry, open, sandy plains and blowouts, sand prairies, sandstone ledges, quartzite cliffs and outcrops. | * | * | * | * | • • • • • • | | * | 2 |
| Carex sartwellii Dew. | A widely distributed sedge meadow species reported for the Baraboo Hills, but a specimen cannot be found. J.H. Zimmerman herbarium? | | | | | | | * | 1 |
| Carex scabrata Schwein. | Seepy areas in deciduous and mixed woods. J.H. Zimmerman herbarium. | * | | | | | | \$ | 1 |
| Carex scoparia Willd. | Open wet sand, sandy lake shores, low, usually sandy meadows; in the Baraboo Hills known only from Honey Creek Valley, and in Devil's Lake State Park known only from the shoreline of Devil's Lake. | * | * | | * | | | ♦ | |
| Carex sparganioides Willd. | Sugar maple-Basswood forests, also wet woods. | | | | | | | ♦ | 3 |
| Carex sprengelii Spreng. | Moist to dry woods, including Hemlock stands, often on slopes or riverbanks. | * | * | * | * | | | \$ | 3 |
| Carex sterilis Willd. | Fens, sandy meadows. KL. | | | | * | | | \$ | |
| Carex stipata Willd. | Sedge meadows, Alder thickets, Tamarack swamps, cat-tail marshes, Leather-leaf bogs, fens. | * | * | * | * | • • • • • • | | \$ | |
| Carex stricta Lam. Tussock Sedge | Widespread in acid and alkaline alluvial meadows subject to flooding, also Tamarack swamps, Alder thickets, cat-tail marshes. | * | * | * | * | | | ♦ | ſ |
| Carex tenera Dew. | Low meadows, wet woods, especially clearings and borders. | | * | * | | | | \$ | |
| Carex tetanica Schk. | Loamy prairies, especially where limey; known only from Cady's Marsh. KL. | | | | \$ | | | * | |
| Carex tribuloides Wahlenb. | Deciduous swamps along the Wisconsin River and up the Baraboo River to at least Section 19 in T12N, R9E, also low meadows, swales in wooded ravines. | * | * | * | * | * | | | |
| Carex trichocarpa Schk. | Sedge meadows, alkaline meadows, Alder thickets; in the Baraboo Hills known only from Honey Creek Valley, and in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | * | * | * | * | | | * | |
| Carex trisperma Dew. | Tamarack swamps in Dellona Township; common northward and eastward in Wisconsin. KL. | | | | * | | | * | ••• |
| Carex tuckermanii Dew. | Deciduous swamps, low sandy woods, wet thickets, marshy ponds and swales. | \$ | ♦ | * | * | | | * | |
| Carex typhina Michx. | Deciduous swamps along the Wisconsin River, including the marshy shoreline of Mirror Lake, and up the Baraboo River to at least Section 24 in T12N, R8E. | | | * | | | | * | |
| Carex umbellata Willd. (incl. C. abdita Bickn.) | Dry, often rocky sites in a variety of soils. | * | * | \$ | * | | | * | |

| | | | | Loc | ality | and | Abur | ndanc | e Coc | le | |
|--|----------------------------|--|----------------------|-------------|---|-----------------|-------------|------------|---------------|----------|-------|
| | | | ВН | DLSP | DL Only | wu | СР | WR Only | C Only | Sk Co | |
| PERACEAE EDGE FAMILY (continued) |) | | | | | | | | | | |
| Carex vesicaria L. | •••••• | Deciduous swamps, pond margins, swales, sedge meadows. | | * | | | * | | | | 2 |
| Carex vulpinoidea Michx. | | Sedge meadows, alkaline meadows, loamy prairies, wet thickets, moist areas in deciduous woods and Hemlock stands. | | * | • | ••••• | * | | • • • • • • • | ····· | 3 |
| Carex woodii Dew. | | Sugar Maple-Basswood forests. J.H. Zimmerman herbarium. | | ••••• | | | • • • • • • | ••••• | | ····· | 1 |
| | Shining Cyperus | Sandy shores of the Wisconsin River and Devil's Lake. | | * | . | | | | ••••• | ····· | 3 |
| Cyperus diandrus Torr. | Low Cyperus | Sandy shores of the Wisconsin River and Devil's Lake, also fens. | | * | | | * | | | ····· | 3 |
| Cyperus erythrorhizos Muhl. | Red-rooted Cyperus | Sandy shores of the Wisconsin River, newly exposed mudflats, sandy meadows. | | * | | | * | ······ | | ····· | 2 |
| Cyperus esculentus L. | Chufa | Low meadows, fields, and ditches. Weedy in farmland, especially lowland sandy fields. | * | ••••• | | | * | | | ····· | 2 |
| Cyperus houghtonii Torr. | Houghton's Cyperus | Known only from a several acre sand blow in Jack Pine-oak woods in the northwestern corner of the Baraboo Hills (T12N, R5E, se 1/4 of Section 22). WIS, KL. | ··········· ♦ | | • • • • • • | | | | ••••• | ···· | 1 |
| Cyperus lupulinus (Spreng.) Marcks (C. filiculmis of many authors, not Vahl, 1806) | Slender-stemmed Cyperus | Disturbed sandy soil, especially dry prairies, also limey sand and rhyolite glades and (an outcrop in the Baraboo Valley in T12N, R7E, Section 32) Dake Quartzite (Clayton and Attig 1990:10-11); not on Baraboo Quartzite. Hybridizes with C. schweinitzii. | ······ | ····÷ | •••• | \$ | ······ | | | ····· | 3 |
| Cyperus schweinitzii Torr. | Schweinitz's Cyperus | Dry sites in sand and limey sand, often with C. lupulinus. | * | | ••••• | | * | ••••• | ••••• | ····· | 3 |
| Cyperus squarrosus L. (C. aristatus Rottb.; C. inflexus Muhl.) | Awned Cyperus | Wet open sand along the Wisconsin River and Devil's Lake. | | * | | ·········· ♦ | | ······ | ••••• | ····· | 3 |
| Cyperus strigosus L. | Straw-colored Cyperus | Sandy and muddy shores, marshy ground and ditches, fens. | • • • • • • | . | | * | * | | | ····· | 3 |
| Dulichium arundinaceum (L.) Britt. | Three-way Sedge | Essentially a bog species, but in the study area in wet hollows, for example glacial kettles and sedge meadows, also edges of low sandy woods. | ····· | ··········◆ | | ♦ | | | | | 3 |
| Eleocharis acicularis L.) R. & S. | Spike-rush | Wet sandy or muddy shores and hollows; pioneering and forming a "green pasture" (Leopold 1949:51-52) along rivers and lakes after the receding of high water. This was the main species on the mudflats at the southwestern corner of Devil's Lake in 1974 (Figure 32), the first year after the receding of high water from a flood year (see <i>Ranunculus sceleratus</i>). | | * | | ♦ | ····· | ········ | | \$ | 3 |
| Eleocharis compressa Sulliv. (E. elliptica Kunth var. compressa (Sulliv.) Drapalik & Mohlenb.) | Spike-rush | Moist open sand along the Wisconsin River, sandstone ledges inland. KL. | * | * | | ••••• | * | | | * | 1 |

| Locality and Abundance Code |
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| DL WR C Sk BH DLSP Only WU CP Only Only Co AC |
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| | | | | | | | | Oilly | 01119 | | 710 |
|--|------------------|--|---------------|---|---------------|-----------|-----------|---------------|---------------|-----------|-----|
| YPERACEAE SEDGE FAMILY (continued | · ') | | | | | | | | | | |
| SC Eleocharis engelmannii Steud. | Spike-rush | Low open sandy ground. The Devil's Lake record is a sight record: T.S. Cochrane with J.H. Zimmerman, 21 September 1975. WIS. | | * | * | • • • • • | ······ | | | * | 1 |
| Eleocharis erythropoda Steud. (E. calva Torr.) | Spike-rush | Low open ground, for example sandy shores and sandy meadows; often in shallow water. | | • | • • • • • • • | * | * | * | | ♦ | 2 |
| Eleocharis intermedia Schultes | Spike-rush | Wet open sand, also swales and ditches in sandy meadows. KL. | | | | \$ | * | | | ⋄ | 1 |
| Eleocharis obtusa (Willd.) Schultes (incl. E. ovata (Roth) R. & S.) | Spike-rush | Wet, open, often disturbed sites, including areas recently logged in deciduous forest. | * | * | | ••••• | ···· | | | \$ | 3 |
| Eleocharis palustris (L.) Roemer & J.A. Schultes (incl. E. smallii Britt.) | Spike-rush | Wet open sand, sedge meadows; often in shallow water. | * | ÷ | | * | * | | ••••• | * | 3 |
| Eriophorum angustifolium Honckeny | Cotton-grass | Sedge meadows and Leather-leaf bogs in Dellona, Delton, and Fairfield Townships. | | | | | | ••••• | ••••• | * | 2 |
| Eriophorum tenellum Nutt. | Cotton-grass | Sedge meadows; known only from Delton Township. KL. | | | ••••• | | \$ | | ••••• | \$ | 1 |
| Fimbristylis autumnalis (L.) R. & S. | | Wet open sand along the Wisconsin River. | | | | \$ | \$ | * | ••••• | \$ | 3 |
| Lipocarpha micrantha (Vahl) G. Tucker (Hemicarpha micrantha (Vahl) Pax) | | Sandy-muddy shores of Devil's Lake and the Wisconsin River. | | * | * | * | * | * | | \$ | 3 |
| Rhynchospora capitellata (Michx.) Vahl (R. glomerata (L.) Vahl var. minor Britt.) | Beak-rush | Swales and edges of ponds in open sandy ground, also sandy meadows. | | | | | * | | | \$ | 2 |
| Scirpus acutus Bigelow | Hardstem Bulrush | Wet open sand and standing water along the Wisconsin River. WIS, KL. | | | ••••• | * | | | • • • • • • • | \$ | 1 |
| Scirpus atrovirens Willd. | Black Bulrush | Sedge meadows, sandy meadows, Alder thickets, Tamarack swamps, deciduous swamps, fens and alkaline meadows, ditches, wet roadsides. | ÷ | * | | \$ | * | • • • • • • | ••••• | \$ | 4 |
| Scirpus clintonii Gray | | Sandy meadows, also dry, sandy, wooded hillsides. | | ••••• | | \$ | * | • • • • • • • | • • • • • • • | \$ | 2 |
| Scirpus cyperinus (L.) Kunth. (incl. S. pedicellatus Fern.) | Wool-grass | Sedge meadows, sandy meadows, alkaline meadows, Alder thickets, Tamarack swamps; often along borders, such as marshy openings within deciduous forests, edges of Leather-leaf bogs, ditches, wet roadsides. | * | * | | \$ | * | | | * | 4 |
| Scirpus fluviatilis (Torr.) Gray | River Bulrush | Marshy shores of lakes and rivers, including associated deciduous swamps, also low meadows, cat-tail marshes, fens. | • • • • • • • | * | | * | \$ | | • • • • • • • | \$ | 3 |
| Scirpus heterochaetus Chase | | Known only from the International Crane Foundation property in Fairfield Township. International Crane Foundation Herbarium (photocopy of ICF specimen at WIS.) | | | ••••• | | * | | | * | 1 |

| | | | | Locality | and . | Abu | ndanc | e Cod | e |
|---|---|---|--------------------------------------|--|--|---|--|-----------|---|
| | | | ВН | DL DLSP Only | WU | CP | WR Only | C Only | Sk Co A |
| YPERACEAE | • | | | | | | | | |
| SEDGE FAMILY (continued | l) · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| Scirpus pendulus Muhl. (S. lineatus of authors, not Michx.) | | Known only from an abandoned roadway bordering a sedge meadow in Merrimac Township. KL. | | | | | * | | 1 |
| Scirpus pungens Vahl. (S. americanus of authors, not Pers.) | Threesquare | Wet shores of the Wisconsin River, where known only from the mouth of Honey Creek (because of limey deposits?), and Devil's Lake. WIS, KL. | | * * | * | | | | ♦ 1 |
| Scirpus smithii Gray (incl. S. purshianus Fern.) | | Mudflats and sandy shores of Devil's Lake and the Wisconsin River, especially where the water has receded recently. | | * * | | | | | |
| Scirpus tabernaemontanii K.C. Gmel. (S. validus Vahl) | Softstem Bulrush | Wet shores, especially with receding water levels, also shallow water of ponds and ditches, sedge meadows, alkaline meadows and fens, cat-tail marshes, Alder thickets. | * | * | | * | | | ♦ 3 |
| SC Scleria triglomerata Michx. | Nut-rush | Sandy meadows; local. | | | | | | | * 2 |
| IOSCOREACEAE (AM FAMILY PR 34, 1950, Trans. WASAL | . 40(1):230, 236 | | | | | | | | |
| Dioscorea villosa L. | Wild Yam | Dry woods and thickets, also low woods, forest or marsh borders, railroad embankments. | | * | ♦ | ····· | | | * |
| YDROCHARITACEAE FROG'S-BIT FAMILY | | | | | | | | | |
| Elodea canadensis | Waterweed | Devil's Lake, also artificial lakes and the Wisconsin River. | | * | | | | | \$ 2 |
| Michx. | | | | | | | | | |
| Michx. Elodea nuttallii (Planch.) St. John | Waterweed | Sloughs and artificial lakes; more local than the preceding species. KL. | | | | | | | * |
| Elodea nuttallii | Waterweed Water-celery | | | * * | | * | ····· | | |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY | Water-celery | than the preceding species. KL. Submersed in lakes and the Wisconsin | | * * | ⋄ | | ····· | | |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL | Water-celery , 40(1):230-31, 236-38 | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. | | * * * | * | ····· | * | | * |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY | Water-celery | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed | | * * | • | * | ············ | | * |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL ⁿ Belamcanda chinensis | Water-celery , 40(1):230-31, 236-38 | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac | | * | ······································ | ····· | * | | ↑ 1 |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL "Belamcanda chinensis (L.) DC. "Iris germanica L. | Water-celery , 40(1):230-31, 236-38 Blackberry-lily | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed by Lueders (1895:522). Rarely persisting. | ************************************ | | | * | * | | * |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL Belamcanda chinensis (L.) DC. | Water-celery , 40(1):230-31, 236-38 Blackberry-lily Garden Iris | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed by Lueders (1895:522). Rarely persisting. Persisting (and spreading?) from plantings. Low meadows, fens and alkaline meadows, cat-tail marshes, Leather-leaf bogs, Alder thickets, Tamarack swamps, hardwood | | * | * | * | * | | * |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL "Belamcanda chinensis (L.) DC. "Iris germanica L. Iris virginica L. var. shrevei (Small) | Water-celery , 40(1):230-31, 236-38 Blackberry-lily Garden Iris | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed by Lueders (1895:522). Rarely persisting. Persisting (and spreading?) from plantings. Low meadows, fens and alkaline meadows, cat-tail marshes, Leather-leaf bogs, Alder | | * | * | * | | | ♦ 1♦ 3♦ 4 |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL "Belamcanda chinensis (L.) DC. "Iris germanica L. Iris virginica L. var. shrevei (Small) Anders. Sisyrinchium campestre Bickn. JNCACEAE RUSH FAMILY | Water-celery ,40(1):230-31, 236-38 Blackberry-lily Garden Iris Wild Iris Blue-eyed-grass | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed by Lueders (1895:522). Rarely persisting. Persisting (and spreading?) from plantings. Low meadows, fens and alkaline meadows, cat-tail marshes, Leather-leaf bogs, Alder thickets, Tamarack swamps, hardwood swamps, low sandy woods. Prairies and dry open sites in limey or | * | ♦ | * | * | | | ♦ 1♦ 3♦ 4 |
| Elodea nuttallii (Planch.) St. John Vallisneria americana Michx. RIDACEAE RIS FAMILY PR 34, 1950, Trans. WASAL "Belamcanda chinensis (L.) DC. "Iris germanica L. Iris virginica L. var. shrevei (Small) Anders. Sisyrinchium campestre Bickn. UNCACEAE RUSH FAMILY PR 34, 1950, Trans. WASAL | Water-celery ,40(1):230-31, 236-38 Blackberry-lily Garden Iris Wild Iris Blue-eyed-grass | than the preceding species. KL. Submersed in lakes and the Wisconsin River; usually rooted in sand. WIS, KL. A roadside colony noted in Prairie du Sac Township in 1989 by E.J. Judziewicz; listed by Lueders (1895:522). Rarely persisting. Persisting (and spreading?) from plantings. Low meadows, fens and alkaline meadows, cat-tail marshes, Leather-leaf bogs, Alder thickets, Tamarack swamps, hardwood swamps, low sandy woods. Prairies and dry open sites in limey or | * | ************************************** | ************************************** | * * * * * * * * * * * * * * * * * * * | ······································ | | |

| | | | | DL | | | WR | С | Sk | |
|--|--|---|------------|------------|-----------|-----------|-------------|---------------|-----------|----|
| | | | ВН | DLSP Only | WU | CP | Only | Only | Со | AC |
| JUNCACEAE RUSH FAMILY (continued | 1) | | | | | | | | | |
| Juncus brevicaudatus (Engelm.) Fern. | | Wet open sand, including ponds and ditches, also sandy meadows. | ••••• | | | * | | | \$ | 2 |
| Juncus bufonius L. | Toad Rush | Moist open sand at Devil's Lake and along the Wisconsin River. The Devil's Lake record is a sight record: T.S. Cochrane with J.H. Zimmerman, 21 September 1975, "rare." KL. | | * * | | * | * | •••••• | \$ | 1 |
| Juncus canadensis La Harpe | | Sphagnous sedge meadows and sandy meadows where often in open muddy places, also ditches and pond margins. | | | | * | | | \$ | 2 |
| Juncus dudleyi Wieg. | ······································ | Moist open ground, including fens, disturbed places. | | | * | * | | | * | 2 |
| Juncus effusus L. | Soft Rush | Newly exposed wet shores, sedge meadows, fens, marshy openings within deciduous forests, Tamarack swamps, Alder thickets. | ····÷ | * | * | * | • • • • • • | • • • • • • | * | 3 |
| Juncus greenei Oakes & Tuckerm. | | Sandy meadows, also quartzite and rhyolite glades. | | * | \$ | \$ | ••••• | • • • • • • • | \$ | 2 |
| Juncus interior Wieg. | | Dry sand prairies, sandy roadsides, Wisconsin River sandbars, quartzite glades. | ♦ | * | * | * | ••••• | ••••• | * | 2 |
| Juncus nodosus L. | | Moist open ground, for example lake and river shores, low often disturbed meadows. | ••••• | * * | | * | * | | * | 2 |
| Juncus pelocarpus Meyer | : | Known only from the shoreline of Devil's Lake, where first collected in 1895. WIS, KL. | | * * | | | | ••••• | \$ | 1 |
| Juncus tenuis Willd. | Path Rush | Weedy in dry to moist ground, especially roadways, trails, ditches, excavation sites, clearings. | * | * | * | * | | | \$ | 4 |
| Juncus torreyi Cov. | | Wet open sand. AC. | | | | * | | | \$ | 1 |
| Luzula acuminata Raf. | Wood Rush | Dry sandy woods, also damp to wet woods, for example ravines and along streams. | * | * | \$ | * | | | \$ | 3 |
| Luzula multiflora (Ehrh.) Lej. var. multiflora (L. campestris (L.) DC. var. multiflora (Ehrh.) Celak) | Wood Rush | Dry sandy woods and associated openings, sandstone cliffs, quartzite glades, sandy meadows, low meadows. | * | * | * | * | | | * | 3 |
| LEMNACEAE DUCKWEED FAMILY PR 25, 1937, Trans. WASAI | L 30:17-20 | | | | | | | | | |
| Lemna minor L. | Duckweed | Floating on the water surface of lakes, ponds, edges of streams, sloughs and other marshy places. Stranded on wet shores with receding water. | ·········◆ | * | * | * | ••••• | | * | 5 |
| Lemna trisulca L. | Star Duckweed | In similar waters as <i>L. minor</i> , but in tangled masses beneath the surface, not floating on it. | * | * | * | * | | | \$ | 3 |
| Spirodela polyrrhiza (L.) Schleid. | Greater Duckweed | In similar waters as the other species and often associated with them. | | | | * | ••••• | | ♦ | 3 |
| Wolffia brasiliensis Wedd. (W. punctata Griseb.) | Water-meal | In similar waters as the other species and often associated with them. | | | | * | | | * | 3 |

| | | | | Locality | and A | Abuı | ndanc | e Cod | le | |
|---|----------------------|---|---------------|-----------------|---|-----------|-----------------|-----------|----------|---|
| | | | ВН | DL DLSP Only | WU | CP | WR Only | C Only | Sk Co | |
| MNACEAE UCKWEED FAMILY (con | tinued) | | | | | | | | | |
| Wolffia columbiana Karst. | Water-meal | In similar waters as the other species and often associated with them. | * | * | * | \$ | | | | 3 |
| LIACEAE ILY FAMILY R 34, 1950, Trans. WASAL | 40(1):215-29, 235-36 | | | | | | | | | |
| Aletris farinosa L. | Colic-root | Sandy meadows (Figure 24). | | | | ······ | | | ····· | 2 |
| Allium burdickii (Hanes) A.G. Jones (A. tricoccum Ait. var. burdickii Hanes) | Wild Leek | Mainly rich deciduous woods; usually scattered small clumps. For this species, see Hanes and Ownbey (1946) and Jones (1979). | * | * | * | | | | ····· | 3 |
| Allium canadense L. | Wild Garlic | Mainly bottomland forests, also rhyolite glades. | \$ | * | * | * | | ••••• | | 2 |
| Allium stellatum Ker. | Wild Onion | Known only from a (1930?) collection from along the railroad at "Merrimac"; adventive? WIS. | • • • • • • • | | | * | | ••••• | | 1 |
| Allium tricoccum Ait. | Wild Leek | Mesic woods, including floodplains, especially characteristic of Sugar Maple- Basswood forests; usually colonial. | * | * | * | •••• | • • • • • • • | | * | 4 |
| ⁿ Asparagus officinalis L. | Garden Asparagus | Roadsides, railroads, clearings, thickets, open woods; in a variety of soils. | | * | | \$ | | | | 5 |
| Clintonia borealis (Ait.) Raf. | Bluebead Lily | Sandstone ledges and adjoining ground in wooded ravines, low sandy woods, Hemlock stands, Tamarack swamps, Alder thickets. | * | * | * | * | • • • • • • • • | | | 3 |
| ⁿ Convallaria majalis L. | Lily-of-the-valley | Persisting and spreading from cultivation. | | * | | | | | * | 1 |
| Erythronium albidum Nutt. | White Trout Lily | Rich, often bottomland deciduous forests; more local than the next species. | * | | * | ***** | | | * | 2 |
| Erythronium americanum Ker | Yellow Trout Lily | Rich, often bottomland deciduous forests. | | | • | \$ | | | * | 2 |
| ⁿ Hemerocallis fulva (L.) L. | Orange Day Lily | Roadsides, generally in wooded areas; spreading from gardens and cemeteries where planted because of its attractive flowers. | * | * | * | * | | | * | 3 |
| Hypoxis hirsuta (L.) Coville | Yellow Star-grass | Sandy meadows, fens, loamy prairies, also dry prairies in a variety of soils, quartzite and rhyolite glades. | * | * | * | * | | | ····· | 3 |
| ⁿ Lilium lancifolium Thunb. (L. tigrinum Ker) | Tiger Lily | Spreading from cultivation. | ••••• | | • • • • • • • | \$ | | ••••• | | 1 |
| Lilium michiganense Farw. | Michigan Lily | Sedge meadows, marshy openings in deciduous woods, Tamarack swamps, Alder thickets. | * | * | * | * | | | * | 3 |
| Lilium philadelphicum L. | Wood Lily | Sandy meadows, dry limey prairies. WIS. | | | * | * | | | * | 1 |
| Maianthemum canadense Desf. | Canada Mayflower | Sites vary from dry to moist, generally in cooler habitats: deciduous and coniferous forests, low sandy woods, Tamarack swamps, Alder thickets. | ······ | * | * | | | | * | 4 |
| ⁿ Muscari botryoides (L.) P. Mill. | Grape Hyacinth | Noted in a wooded creek bottom; transient? | | * | | • • • • • | | | | 1 |

| | | | | Locality | y and | Abu | ndanc | e Coc | le | _ |
|--|----------------------|--|----------|-----------------|-------------|-------------|---|---------------|-----------|---|
| | | | ВН | DL DLSP Only | WU | СР | WR Only | C Only | Sk Co | |
| IACEAE LY FAMILY (continued) | | | | | | | | | | |
| ⁿ Ornithogalum umbellatum L. | Star-of-Bethlehem | Noted on a farm in Excelsior Township in 1971; transient? | * | | ••••• | ••••• | | | ♦ | |
| Polygonatum biflorum (Walt.) Ell. (P. canaliculatum of authors; P. commutatum (Schultes f.) A. Dietr.) | Large Solomon's-seal | Mainly dry woods and their borders, including dry prairies in a variety of soils; sometimes in bottomland forest. | * | * | * | * | | | < | |
| Polygonatum pubescens (Willd.) Pursh | Small Solomon's-seal | More apt to be in cooler woods or mesic woods, including Hemlock stands, than the preceding species. | * | * | * | * | | | \$ | |
| Smilacina racemosa (L.) Desf. | False Solomon's-seal | Dry and mesic woods, low sandy woods. Smilacina is not recognized in Kartesz (1994); S. racemosa is listed therein as Maianthemum racemosum (L.) Link. | * | * | * | * | • | • • • • • • • | * | |
| Smilacina stellata (L.) Desf. | False Solomon's-seal | Dry, especially limey woods and edges, limey bluff prairies, fens, also low boggy thickets. <i>Smilacina</i> is not recognized in Kartesz (1994); <i>S. stellata</i> is listed therein as <i>Maianthemum stellatum</i> (L.) Link. | * | * | * | * | | | ⋄ | |
| Streptopus roseus Michx. | Twisted Stalk | Cool, moist, deciduous and mixed forests, low sandy woods. | * | * | * | * | | • • • • • • • | * | • |
| Trillium cernuum L. | Nodding Trillium | Cool, moist, deciduous and mixed forests. | * | * | * | | | , | \$ | |
| Trillium flexipes Raf. (T. gleasonii Fern.) | Midland Trillium | Mesic and lowland woods, occasionally dry woods. | * | * | > | * | | | \$ | • |
| Trillium grandiflorum (Michx.) Salisb. | Large Trillium | Generally relatively moist woods, often where limey; mainly in the Western Upland. The Devil's Lake State Park record (by an old cottage site) and the Central Plain record (Leopold Reserve; Leopold Shack Journal, 30 May 1947) represent introductions. | * | * | * | * | | | * | |
| Uvularia grandiflora Sm. | Bellwort | Dry to mesic woods, also Hemlock stands. | ····· | * | ····· | ····· | | | \$ | - |
| Uvularia sessilifolia L. | Merrybells | More apt to be in dry woods than the preceding species. | | * | | | | | \$ | |
| Zigadenus elegans Pursh ssp. glaucus (Nutt.) Hultén | White Camas | Dry limey bluff prairies. | ••••• | ••••• | ♦ | • • • • • • | ••••• | • • • • • • • | * | |
| JADACEAE AIAD FAMILY R 33, 1951, Trans. WASAL | 40(2):109-10 | | | | | | | | | |
| Najas flexilis (Willd.) Rostk. & Schmidt | Water-naiad | Devil's Lake and Wisconsin River ponds. | | * * | * | > | * | | \$ | |
| Najas gracillima (Engelm.) Magnus | Water-naiad | Known only from a 1932 collection from a pool near Wisconsin Dells; "doubtfully native, apparently increasing" (Read 1976:44). WIS, MIL. | | | | * | * | | * | |

| | | | | Locality | and . | Abui | ndance | e Cod | le |
|--|--------------------------------|---|-------------|-----------------|-----------------------|----------|-----------------|-----------|-------------|
| | | | вн | DL DLSP Only | WU | СР | WR Only | C Only | Sk Co AC |
| RCHIDACEAE PRCHID FAMILY ase 1987, Fuller 1933 | | | | | | | | | |
| Aplectrum hyemale (Willd.) Torr. | Putty-root Orchid | Sugar Maple forests, also Red Oak stands; usually only a half-dozen or so plants at a given station. | * | . | | | | | |
| Calopogon tuberosus (L.) BSP. (C. pulchellus (Salisb.) R. Br.) | Grass-pink Orchid | The only herbarium record for this century is a 1975 specimen from a sandy meadow in Delton Township. WIS, KL. | • • • • • | | | * | • • • • • • • • | | * 1 |
| Coeloglossum viride (L.) Hartman var. virescens (Willd.) Luer (Habenaria viridis (L.) R. Br. var. bracteata (Willd.) Gray) | Bracted Orchid | Oak-hickory woods, often limey, also Red Oak stands; usually singly or in small groups. | * | * | * | | | | |
| Corallorhiza maculata (Raf.) Raf. | Spotted Coral-root | Dry to mesic woods, low sandy woods. | > | * | | | ••••• | | * 3 |
| SC Corallorhiza odontorhiza (Willd.) Nutt. | Fall Coral-root | Dry to mesic woods; sometimes in disturbed sites, for example railroad embankments or bare ground by animal burrows. Populations usually thin and scattered, generally 2 to 10 plants per station. | * | * | * | | | | |
| Cypripedium acaule Ait. | Pink Lady's-slipper | Dry sandy upland woods with pines, low sandy woods with pines, sphagnous deciduous thickets, Tamarack swamps. | ♦ | * | * | * | | | ♦ 3 |
| T Cypripedium candidum Willd. | White Lady's-slipper | The only herbarium record is an 1885 specimen labelled "Baraboo." See Platanthera leucophaea. Formerly at Devil's Lake State Park (Anon. 1906:26). WIS. | * | | | | | | \$ 0 |
| SC Cypripedium parviflorum Salisb. (C. calceolus L. var. parviflorum (Salisb.) Fern.) | Small Yellow Lady's-slipper | This is the small, dark flowered, mainly western species. The only herbarium record is a 1933 specimen labelled "Baraboo." MIL. | | | | | | | \$ 1 |
| Cypripedium pubescens Willd. (C. calceolus L. var. pubescens (Willd.) Correll) | Large Yellow Lady's-slipper | Deciduous, often Red Oak forests, mixed forests, also loamy prairies, especially where limey; colonies generally number up to 15 plants, sometimes more. | ······ | ····÷ | ············ ♦ | ······ | | | |
| SC Cypripedium reginae Walt. | Showy Lady's-slipper | The only herbarium record is an 1890 specimen from "Pine hollow near Baraboo." Formerly at Devil's Lake State Park (Anon. 1906:26), and formerly in a Tamarack swamp in Section 7, Prairie du Sac Township (Lueders 1895:514). WIS. | * | | | | | | |
| Galearis spectabilis (L.) Raf. (Orchis spectabilis L.) | Showy Orchis | Deciduous and mixed forests, often in lowland sites; sometimes in grassy fields adjoining a woods. Usually only one or a few plants at a given station. | * | | | ····· | | | |
| Goodyera pubescens (Willd.) R. Br. | Downy Rattlesnake- plantain | Mainly in oak-hickory and oak-pine woods, also low sandy woods and moist mixed forests. | | * | | * | | | |

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|---|-----------------------------|---|-------------|--|------------|----------|----------|------------|-----------|--------------|
| | | | ВН | DLSI | DL Only | WU | СР | WR Only | C Only | Sk Co AC |
| DRCHIDACEAE | | | | | | | | | | |
| ORCHID FAMILY (continu | ed) | | | | | | | | | |
| Liparis liliifolia (L.) Lindl. | Purple Twayblade | Most numerous but transient in pine and spruce plantations, where peak numbers of several thousand plants have been noted, for example in a 19-year-old White Pine Plantation in Devil's Lake State Park in 1967. Curtis and Greene (1953:153) describe a similar situation for the University of Wisconsin Arboretum in Madison. Apart from plantations, usually found in oak woods where often in dry sites but also associated with Red Oak; at these localities generally only a few (2 to 4) plants are noted. | ····· | ************************************** | | | * | | | ♦ 3 |
| Liparis loeselii (L.) Rich | Green Twayblade | Swampy woods and thickets, roadside ditches in wet open sand, also relatively dry areas, but then usually in moister, moderately shaded sites. KL. | ····· | | | | * | | | † 1 |
| Malaxis unifolia Michx. | Green Adder's-mouth | Known only from a low sandy woods in Delton Township. KL. | | | | ••••• | | | | † 1 |
| Platanthera clavellata (Michx.) Luer (Habenaria clavellata (Michx.) Spreng.) | Club-spur Orchid | Sphagnous woods and thickets of White Birch and Quaking Aspen, Red Maple thickets; known from Dellona and Delton Townships. KL. | | | | | * | | | * 1 |
| T Platanthera flava (L.) Lindl. var. herbiola (Ait. f.) Luer (Habenaria flava (L.) R. Br. var. herbiola (Ait. f.) Ames & Correll) | Tubercled Orchid | Springy creek bottoms or wet grassy areas along the borders of deciduous forest. Also relatively dry areas, but then usually in moister, moderately shaded sites. A total of 7 flowering stalks and 7 non-flowering stalks was noted in 1993 at a station first discovered in 1967, a mucky creek bed with herbaceous vegetation at the edge of an artificial clearing within extensive forest in Devil's Lake State Park (Figures 48 and 49). At another station near Devil's Lake State Park, a wet field adjoining an oak forest, this species appears to be declining, as other herbaceous plants and woody species are advancing outward from the forest. The Central Plain record is a 1973 sight record for a wet, mucky slope bordering Hulburt Creek in Delton Township. Tubercled Orchid apparently requires a relatively open, non-competitive environment. See Alverson (1981) for a review of this species, also Wisconsin Department of Natural Resources (1993b:49). | * | * | | | * | | | \$\display 2 |
| SC Platanthera hookeri (Gray) Lindl. (Habenaria hookeri Gray) | Hooker's Orchid | Cool, moist, deciduous and mixed woods, also relatively dry mixed woods. | | * | | . | | | | ♦ 2 |
| Platanthera hyperborea (L.) Lindl. (Habenaria hyperborea (L.) R. Br.) | Tall Northern Bog Orchid | Marshy, mucky stream borders of Alderwillow thickets. | • • • • • • | ••••• | ••••• | ••••• | * | | | ♦ 1 |

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| CHIDACEAE RCHID FAMILY (continu | ed) | | | | | | | | | |
| Platanthera lacera (Michx.) G. Don (Habenaria lacera (Michx.) R. Br.) | Ragged Orchid | Sandy meadows in Dellona, Delton, Fairfield, and Caledonia Townships. | | | | | * | | | |
| E Platanthera leucophaea (Nutt.) Lindl. (Habenaria leucophaea (Nutt.) Gray) | Prairie White-fringed Orchid | The only herbarium record is an 1884 specimen labelled "Baraboo." Since both it and the 1885 specimen of <i>Cypripedium candidum</i> , also labelled "Baraboo," were collected by the same person (R.H. True), and since these 2 orchids occur in the same habitats, wet prairies and alkaline meadows, it seems likely that both came from the same general area, probably the Baraboo River valley. See Alverson (1981) for a review of this species, also Wisconsin Department of Natural Resources (1993b:50). Listed as threatened under the U.S. Endangered Species Act. WIS. | * | | | | | | | |
| Platanthera psycodes (L.) Lindl. (Habenaria psycodes (L.) Spreng.) | Purple-fringed Orchid | Marshy habitats, including streamside thickets, sedge meadows, alder swamps. | ♦ | ♦ | | * | * | | | ♦ 3 |
| Spiranthes casei Catling & Cruise | Cases' Ladies'-tresses | In the Baraboo Hills mainly in quartzite glades, in the Central Plain in sandy meadows, sphagnous deciduous thickets. For this species, see Catling (1978) and Catling and Cruise (1974). | * | * | | | * | | | |
| Spiranthes cernua (L.) Rich. | Nodding Ladies'- tresses | Marsh edges, wet open sand, sandy meadows, fens; sometimes weedy in mowed lowlands. | \$ | * | ••••• | | * | • | • • • • • • • | \$ 3 |
| Spiranthes lacera (Raf.) Raf. (S. gracilis (Bigel.) Beck) | Slender Ladies'- tresses | Dry sandy soil in sun or partial shade, for example old fields, forest clearings. WIS. | * | | | | * | | | * 1 |
| Spiranthes magnicamporum Sheviak | Prairie Ladies'- tresses | Dry limey bluff prairies. For this species, see Catling (1976) and Sheviak (1973). WIS, KL. | | | | | • • • • • • | | | |
| SC Triphora trianthophora (Sw.) Rydb. | Three-birds Orchid | Deciduous forests, generally in leaf litter in mesic sites; some populations number in the hundreds. Rare or seemingly absent in some years, but such populations actually are concealed in the leaf litter or underground, where they can reproduce asexually by means of tuberoids (Williams 1994). | * | * | | * | | | | |
| DACEAE (GRAMINAE) GRASS FAMILY Fassett 1951 | | | | | | | | | | |
| n Agrostis gigantea Roth (A. alba L. of authors) | Redtop | Widespread in open to wooded sites, upland and lowland. Cultivated as a forage grass. | * | * | | * | ····· | | | |
| Agrostis hyemalis (Walt.) BSP. (incl. A. scabra Willd.) | Ticklegrass | Dry open sites, including fields, shores, cliffs, also marshy sites. | * | | ••••• | \$ | * | | | * 3 |

| Locality and Abundance Code | | | | | | | | | | | |
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| BH | DLSP Only V | ٧U | CP | Only (| Only | Co A | 2 | | | | |

| POACEAE (GRAMINAE) GRASS FAMILY (continued) | <i>I</i>) | | | | | | |
|--|------------------|---|-----------------|------------|----------|-----------|---------------|
| Agrostis perennans (Walt.) Tuckerm. | Upland Bent | Dry to moist woods. | * | | * | \$ | → 3 |
| Alopecurus aequalis Sobol. | Foxtail | Ponds, lakeshores, wet meadows. | * | * * | | ♦ | ♦ 2 |
| ⁿ Alopecurus pratensis L. | Foxtail | Agricultural fields. MIL. | | | * | | > 1 |
| Andropogon gerardii Vitman | Big Bluestem | Prairies, roadsides, railroad embankments, in a variety of soils. | * | * | * | * | ♦ 4 |
| Aristida basiramea Vasey | Three-awn Grass | Dry open sand and sandstone, quartzite and rhyolite glades. | * | * | * | * | ♦ 3 |
| SC Aristida dichotoma Michx. | Three-awn Grass | Quartzite glades in Devil's Lake State Park, where first noted in 1934; also (a 1987 sight record) a sandy meadow in Delton Township. WIS, KL. | | * | | ♦ | → 1 |
| Aristida longispica Poir. (A. intermedia Scrib. & Ball) | Three-awn Grass | Dry open sand, including roadsides. KL, AC. | | | | | → 1 |
| Aristida purpurascens Poir. | Three-awn Grass | Dry open sand. Abundant along the Wisconsin River in 1899 (Cheney 1899:46). KL. | • • • • • • • • | | | * | > 1 |
| Aristida tuberculosa Nutt. | Three-awn Grass | Dry open sand. | * | | * | * | ♦ 3 |
| Bouteloua curtipendula (Michx.) Torr. | Side-oats Grama | Dry limey prairies, also dry sandy ground. | * | * | * | * | → 3 |
| Bouteloua hirsuta Lag. | Toothbrush Grass | Dry limey prairies, also dry sandy ground. | * | | * | \$ | \$ 3 |
| Brachyelytrum erectum | Long-awned Wood | Deciduous woods, dry to damp, also | | * | * | * | \$ 3 |
| (Roth.) Beauv. | Grass | Tamarack swamps. | | | | | |
| Bromus ciliatus L. | Fringed Brome | Alkaline meadows and fens, sedge meadows, Alder thickets, Tamarack swamps, dry limey prairies, loamy prairies; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | * | * | * | * | > 3 |
| ⁿ Bromus inermis Leyss. | Smooth Brome | Spreading from plantings in fields and meadows, for example along roads and railroads. A popular hay and pasture grass; has been used extensively in western rangelands. | * | * | * | * | ♦ 4 |
| Bromus kalmii Gray | Brome Grass | Dry limey prairies, fens; in the Baraboo Hills known only from the west end of the South Range. | * | | * | * | ⇒ 2 |
| Bromus latiglumis (Shear) Hitchc. (Bromus altissimus Pursh) | Brome Grass | Floodplain forests, river banks. WIS, MIL. | | * | * | * | ♦ 1 |

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| ACEAE (GRAMINAE) ASS FAMILY (continued | ') | | | | | | | | |
| Bromus pubescens Willd. (B. purgans of authors, not L.) | Canada Brome | Deciduous forest, dry to damp, also low sandy woods. | * | | * | * | | ÷ | 2 |
| ⁿ Bromus tectorum L. | Downy Chess | Disturbed ground, especially roadsides and railways. A notorious weed in the intermountain west (Mack 1984). | | * | | * | | ÷ | 3 |
| Calamagrostis canadensis (Michx.) Beauv. | Blue-joint | A major species in marshy wetlands. | ····· | * | * | * | | ÷ | 4 |
| SC Calamagrostis stricta (Timm) Koel. spp. inexpansa (Gray) C. W. Greene (C. inexpansa Gray) | | Sedge meadows in the Central Plain (Delton Township) and a rhyolite glade in the Baraboo Hills (Fairfield Township). | * | | | ······ | | ÷ | 2 |
| Cenchrus longispinus (Hack.) Fern. | Sandbur | Dry open sandy ground, roadsides and railways. | * | * | * | * | | * | 3 |
| Cinna arundinacea L. | Wood Reedgrass | Deciduous swamps, marshy openings within deciduous forest, low sandy woods, Tamarack swamps, Alder thickets. | | * | * | * | | | 3 |
| Cinna latifolia (Goepp.) Griseb. | Wood Reedgrass | Tamarack swamps, Alder thickets, low ground in cool forests; in the Central Plain known from Dellona and Delton Townships. | | * | * | | | * | 2 |
| ⁿ Dactylis glomerata L. | Orchard Grass | Roadsides, trails, railroads, fields, and other weedy places. | * | * | * | * | | | 4 |
| Danthonia spicata (L.) R. & S. | Poverty Grass | Dry prairies and dry woods on sandstone and dolomite, also quartzite and rhyolite glades, sandy meadows. | * | * | | * | | * | 4 |
| n Deschampsia cespitosa (L.) Beauv. ssp. parviflora (Thuill.) Jarmolenko & Soó | Hair Grass | Represented by a herbarium specimen collected in 1946 near the site of a cottage; this subspecies was introduced from Europe. WIS. | | * | | | | * | 1 |
| Digitaria cognata (Schultes) Pilger (Leptoloma cognatum (Schultes) Chase) | Fall Witch Grass | Dry, often disturbed open ground, usually sandy. | . | * | ······ | | | ÷ | 3 |
| ⁿ Digitaria ischaemum (Schreb.) Muhl. | Crab Grass | Dry fields, open weedy woods, fallow farm land, lawns. | * | * | ······ | | | ÷ | 3 |
| ⁿ Digitaria sanguinalis (L.) Scop. | Crab Grass | Similar places as the preceding species, but more likely to be in road shoulder gravel and railroad ballast; more salt tolerant? | | * | ······ | | | ÷ | 3 |
| ⁿ Echinochloa crusgalli (L.) Beauv. | Barnyard Grass | Dry to damp often disturbed places, including low meadows, river bars, pond edges. | * | | ······ | | | ÷ | 3 |
| Echinochloa muricata (Beauv.) Fern. (E. pungens (Poir.) Rydb.) | | More likely to be in damp places than the preceding species, sometimes even in shallow water; also weedy like <i>E. crusgalli</i> . | ♦ | ····································· | ····· | * | | ÷ | 3 |
| Echinochloa walteri (Pursh) Heller | | Known only from marshy sloughs along the Wisconsin River in T8N, R4E; local. WIS, KL. | | | | | * | | 1 |

| | | | | Lo | cality | and | Abu | ndano | e Coc | le | |
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| ACEAE (GRAMINAE) RASS FAMILY (continued) |) | | | | | | | | | | |
| Elymus canadensis L. | Wild-rye | Sandy shores and associated woods, dry limey bluff prairies and adjacent thinly wooded slopes; may be weedy, for example railroad ballast. | ····· | * | | ····· | * | | | ····· | 3 |
| Elymus hystrix L. var. hystrix (Hystrix patula Moench) | Bottle-brush Grass | Mesic to wet deciduous and mixed woods; sometimes drier woods. | ····· | ÷ | | | * | | | * | 4 |
| Elymus riparius Wieg. | Wild-rye | Moist ground along wooded streams. KL. | * | * | | | | | | * | 1 |
| Elymus trachycaulus (Link) Shinners (Agropyron trachycaulum (Link) H. F. Lewis) | Wheatgrass | Mainly dry woods in a variety of soils. | * | * | | * | * | | | | 3 |
| Elymus villosus Willd. | Wild-rye | Dry to damp deciduous woods, Alder thickets. | | | ••••• | | * | | | * | 3 |
| Elymus virginicus L. | Wild-rye | Swamps, Alder thickets, marshy sloughs, often along major drainages. | * | | | * | | | | * | 3 |
| n Elytrigia repens (L.) B.D. Jackson (Agropyron repens (L.) Beauv.) | Quack Grass | Weedy along roads and railroads, in fields, clearings, thinly wooded sites, in a variety of soils. | * | \$ | | * | * | | | * | 5 |
| Eragrostis capillaris (L.) Nees | Love Grass | Dry open ground. WIS, MIL. | | | | * | | | | * | 1 |
| ⁿ Eragrostis cilianensis (All.) Mosher (E. megastachya (Koeler) Link) | Stink Grass | Agricultural land, roadsides, waste places. | * | | | * | * | • • • • • • | · • • • • • • • | | 3 |
| Eragrostis hypnoides (Lam.) BSP. | Love Grass | Wet sandy or muddy ground, especially after the receding of high water. | * | \$ | | ♦ | | | | | 2 |
| n Eragrostis minor Host (E. poaeoides R. & S.) | Love Grass | Waste places, for example railroad ballast (Zimmerman 1947:65). | | * | | | | | | | 1 |
| Eragrostis pectinacea (Michx.) Nees | Love Grass | Lake sands, river bars and strands, sandy waste areas, railroad ballast, roadways. | • • • • • | * | ••••• | * | * | | | * | 3 |
| Eragrostis spectabilis (Pursh) Steud. | Tumble Grass | Dry sandy and limey prairies, open sandy ground; may be weedy. | * | | | \$ | * | | | * | 3 |
| ⁿ Festuca arundinacea Schreb. | Tall Fescue | A recent introduction from Europe; known only from a 1958 collection from Leland. WIS. | \$ | | | | | | | * | 1 |
| ⁿ Festuca pratensis Huds. (F. elatior L.) | Meadow Fescue | Often in damp sites, for example wet openings in alluvial woods, also railroad ballast and embankments, roadsides and pavement. | * | * | | | * | | | * | 2 |
| Festuca rubra L. | Red Fescue | A 1946 collection from a mowed lawn. WIS. | | \$ | | | | | | ♦ | 1 |
| Festuca subverticillata (Pers.) Alexeev (F. obtusa Biehler) | Nodding Fescue | Wet woods and deciduous swamps, mesic woods; sometimes drier woods. | * | * | ••••• | * | * | | | * | 3 |
| Glyceria borealis (Nash) Batch. | Manna Grass | Glacial kettles, sphagnous sedge meadows, marshy openings in alluvial woods. | * | \$ | | | * | | | * | 2 |
| Glyceria canadensis (Michx.) Trin. | Rattlesnake Grass | Low meadows, streamside thickets, Alder and Tamarack swamps, sandy meadows. | * | \$ | | * | * | | | * | 3 |

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| ACEAE (GRAMINAE) RASS FAMILY (continued | I) | | | | | | | | |
| Glyceria grandis S. Wats. | Reed Manna Grass | Low meadows, streamside thickets, wet woods along drainages, Alder and Tamarack swamps. | ····· | * | * | ······ | | | |
| Glyceria septentrionalis Hitchc. | Manna Grass | Known only from an "open waste area, sandy soil, mesic" in T11N, R8E, Section 12. Swink and Wilhelm (1994:373) report it from the "shallow water of pond margins." This is one of the 5 native species known only from Caledonia Township (Table 13). WIS. | •••• | | | ÷ | * | * | 1 |
| Glyceria striata (Lam.) Hitchc. | Fowl Manna Grass | Low meadows, streamside thickets, seepy areas in alluvial woods, Alder and Tamarack swamps, cat-tail marshes, fens. | | * | * | * | | | |
| Hierochloe odorata (L.) Beauv. | Sweet Grass | Sandy meadows, fens, Tamarack swamps. | | * | | \$ | | • • • • • • | |
| Hordeum jubatum L. | Squirrel-tail Grass | Mainly a roadside and railway weed, also waste areas; introduced? (Swink and Wilhelm 1994:405). | ·····÷ | * | * | * | | ••••• | ♦ 5 |
| Koeleria macrantha (Ledeb.) Schultes (K. cristata of authors, not Pers.) | June Grass | Dry prairies, mainly sandy, sometimes limey, quartzite and rhyolite glades. | * | * | * | * | • | | ♦ 3 |
| Leersia lenticularis Michx. | Catchfly Grass | Deciduous swamps along the Wisconsin River and up the Baraboo River to at least Section 19 in T12N, R9E; near its northern range limit (McCormac 1993). | | | * | * | ····· | ••••• | |
| Leersia oryzoides (L.) Sw. | Cut Grass | Low meadows, wet depressions such as glacial kettles, riparian thickets; often growing in a distinct zone. | | * | | * | | | \$ 3 |
| Leersia virginica Willd. | White Grass | Seepy and marshy areas within deciduous forests, where often spreading along unimproved roadways, also hardwood swamps and adjoining low meadows. | * | * | * | * | | | ♦ 3 |
| ⁿ Lolium perenne L. | Ryegrass | Weedy along trails and roads, and in lawns, although sometimes an ingredient of the original lawn mix and hence deliberately planted; also a forage grass, whence sometimes escaping into cropland. | * | \$ | * | * | | | |
| Milium effusum L. | Milletgrass | Mesic to often moist deciduous woods. | * | * | * | | | | ♦ 3 |
| ⁿ Miscanthus sacchariflorus (Maxim.) Franch. | Pampas Grass | An escape from cultivation as a garden ornamental; first collected in the study area in 1968. For this species in Wisconsin, see Freckmann (1973). | * | * | | | | | |
| Muhlenbergia frondosa (Poir.) Fern. | Muhly Grass | Open woods and shores, often moist sites. | * | * | * | * | | • • • • • • | ♦ 3 |
| Muhlenbergia glomerata (Willd.) Trin. | Marsh Wild-timothy | Fens, loamy prairies where presumably limey. Known only from Leech Creek fen and Cady's Marsh. KL. | • • • • • • | •••••• | | ······ | | | * 1 |
| Muhlenbergia mexicana (L.) Trin. | Muhly Grass | Alkaline meadows and fens where often on ant mounds (Carpenter and DeWitt 1993), also dry to moist, often limey deciduous woods, especially disturbed sites; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | * | * | * | * | | | * 3 |

| | | | | Locality | and | Abu | ndance Coc | le |
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| ACEAE (GRAMINAE) RASS FAMILY (continued) |) | | | | | | | |
| Muhlenbergia racemosa (Michx.) BSP. | Muhly Grass | Dry open cliffs and bluff prairies, dry sandy prairies. | | * | | * | | ♦ 2 |
| Muhlenbergia schreberi J. F. Gmel. | Nimblewill | Dry to damp woods, especially where disturbed, also weedy in low meadows, along roads. | * | * | | * | | ♦ 2 |
| Muhlenbergia sobolifera (Willd.) Trin. | Muhly Grass | Rocky wooded bluffs, also mesic woods, especially clearings. | ······ | * | | | | ♦ 2 |
| Muhlenbergia sylvatica Torr. | Muhly Grass | Moist ground and stream borders in mesic deciduous woods. | | * | | * | •••••• | ♦ 2 |
| Muhlenbergia tenuiflora (Willd.) BSP. | Muhly Grass | Relatively dry deciduous woods. | | * | | * | | ♦ 2 |
| Oryzopsis asperifolia Michx. | Ricegrass | Deciduous and mixed forests, mainly relatively dry sites, also quartzite glades. | * | * | * | | ••••• | ♦ 3 |
| Oryzopsis pungens (Spreng.) Hitchc. | Ricegrass | Dry sandy deciduous and mixed forests and associated quartzite glades and sandstone outcrops; a northern species, here near the southern limit of its range. | * | | * | | | ♦ 2 |
| Oryzopsis racemosa (Sm.) Hitchc. | Ricegrass | Deciduous and mixed forests, including Hemlock stands, mainly mesic sites and often limey. | ······ | * | * | • • • • • • | | ♦ 3 |
| Panicum acuminatum Sw. var. fasciculatum (Torr.) Lelong and var. lindheimeri (Nash) Lelong | Panic Grass | Sandy ground, dry to damp. | * | * | * | | | → 2 |
| Panicum boreale Nash | Panic Grass | Sandy meadows, drier woods. WIS, MIL. | * | | | * | | ⇒ 1 |
| Panicum capillare L. | Witch Grass | Dry to moist open ground, generally where disturbed, for example degraded prairies, roadsides, railroads, waste areas. | * | ♦ | | * | | → 3 |
| Panicum columbianum Scribn. | Panic Grass | Drier prairies, usually sandy, often where disturbed. WIS. | • | | | | | > 1 |
| Panicum commonsianum Ashe var. euchlamydeum (Shinners) Pohl (P. euchlamydeum Shinners) | Panic Grass | Dry sandy prairies, sandy roadsides. | * | | * | | | ⇒ 2 |
| Panicum depauperatum Muhl. | Panic Grass | Dry sandy open ground, open oak woods. | * | | * | * | | ⇒ 2 |
| Panicum dichotomiflorum Michx. | Panic Grass | Disturbed open ground, often moist, including lake shores and river bars, also degraded prairies and roadsides. | * | ♦ | * | * | | > 2 |
| Panicum latifolium L. | Panic Grass | Dry to mesic woods in a variety of soils. | * | * | * | * | | ♦ 3 |
| Panicum leibergii (Vasey) Scribn. | Panic Grass | Dry limey prairies. | | | * | * | | \$ 3 |
| Panicum linearifolium Britt. | Panic Grass | Drier deciduous or mixed woods, usually sandy; often in disturbed sites. | * | * | * | | | \$ 2 |
| Panicum meridionale Ashe | Panic Grass | Dry sandy prairies and oak woods, also wet sand, for example the shoreline of Devil's Lake. WIS. | | * | | | | ♦ 1 |

| | | | | Locality | and . | Abui | | | | |
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| ACEAE (GRAMINAE) RASS FAMILY (continued |) | | | | | | | | | |
| Panicum oligosanthes Schultes var. scribnerianum (Nash) Fern. | Panic Grass | Dry, usually sandy prairies and oak woods. | * | * | * | | • • • • • • | • • • • • • • | ····· | 3 |
| Panicum perlongum Nash | Panic Grass | Dry sandy and limey prairies, open oak woods. | \$ | * | * | * | | | * | 2 |
| Panicum philadelphicum Trin. (P. tuckermani Fern.) | Panic Grass | Moist to wet sand of river and lake borders. WIS, AC. | | * | ••••• | * | * | | ····· | 1 |
| Panicum praecocius H. &. C. | Panic Grass | Dry sandy and limey prairies, open oak woods. | * | | * | * | | | | 2 |
| Panicum rigidulum Nees (P. agrostoides Spreng.) | Panic Grass | Sandbars and sloughs; local. WIS, MIL, KL. | | | * | | * | | | 1 |
| Panicum virgatum L. | Switch Grass | Dry sandy and limey prairies, sandy shores and sandbars, sandy meadows, also roadsides and railroads. | | * | * | * | | | * | 4 |
| SC Panicum wilcoxianum Vasey | Panic Grass | Known only from dry sandy prairie in Prairie du Sac Township. WIS. | • • • • • • • | | | * | | | | 1 |
| Panicum xanthophysum Gray | Panic Grass | Known only from a bluff top, "in tufts," a 1937 collection, Marquette University Herbarium. | | * | | • • • • • • | | | ····· | |
| Paspalum setaceum Michx. (P. ciliatifolium Michx.) | | Dry sandy prairies, also sandy roadsides. | | ••••• | * | * | | | ····· | 2 |
| Phalaris arundinacea L. | Reed Canary Grass | Widespread in wetlands: low meadows, cat-tail marshes, fens, marshy sloughs, low thickets, Leather-leaf bogs, Tamarack swamps. Widely planted in the 1930s for hay and pasture (Lange 1980b), hence both native and naturalized strains are present. Tends to proliferate and form dense monocultures (Apfelbaum and Sams (1987). This species dominated the marsh at the southwestern corner of Devil's Lake 9 years after the high water of 1973 (Figures 31 and 32). | * | * | * | * | | | * | 5 |
| ⁿ Phleum pratense L. | Timothy | Disturbed ground generally, including fields, roadsides, and railways, also spreading into woods, sandy meadows; widely cultivated for hay. | | * | ······ | * | | | * | 5 |
| Phragmites australis (Cav.) Steud. | Reed | Tamarack swamps, low thickets, swales; often in water. WIS. | | | | * | | | | 1 |
| Poa alsodes Gray | Bluegrass | Relatively cool and shaded seepage areas in ravines and along the bases of bluffs. | * | | | | | | | 2 |
| ⁿ Poa annua L. | Annual Bluegrass | Lawns, trails in woods, along shaded sidewalks and roadways, lake shores and river banks. | * | * | * | * | ••••• | | ····· | 3 |
| ⁿ Poa compressa L. | Canada Bluegrass | Virtually ubiquitous in drier habitats, generally not in wetter sites. | * | * | * | * | | | | 5 |
| Poa nemoralis L. | Bluegrass | Known only from dry rocky woods in Devil's Lake State Park, where first collected in 1946. WIS. | | ·····◆ | | | | | | 1 |

| | | | | Locality | and | Abu | ndance | e Cod | le | |
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| POACEAE (GRAMINAE) GRASS FAMILY (continued |) | | | | | | | | | |
| T Poa paludigena Fern. & Wieg. | Bluegrass | Known from the Black Ash-Alder swamp on the Wisconsin Society for Ornithology's Honey Creek property, where first reported by Hartley (1962:316 & 317, 126); represented most recently by a 1992 collection. In 1997 found in an Alder thicket in Mirror Lake State Park. WIS, KL, AC. | * | | | \$ | | | * | 1 |
| Poa palustris L. | Fowl Meadow Grass | Sedge meadows, Alder thickets, fens. | * | \$ | | \$ | | | \$ | 2 |
| ⁿ Poa pratensis L. | Kentucky Bluegrass | Virtually ubiquitous except the wettest sites. | * | * | * | * | | | \$ | 5 |
| ⁿ Poa trivialis L. | Bluegrass | Local in swampy ground, including lowland forests, mucky river shores, Alder thickets. | | | * | | | • • • • • • | \$ | 2 |
| Schizachne purpurascens (Torr.) Swallen | Purple Melic | Deciduous and mixed woods, sandy or limey soil. | * | * | * | * | | · · · · · · · - | \$ | 3 |
| Schizachyrium scoparium (Michx.) Nash (Andropogon scoparius Michx.) | Little Bluestem | Prairies, roadsides and railroads, in a variety of soils. | * | * | | * | | | \$ | 4 |
| ⁿ Secale cereale L. | Rye | Mainly along roads and railways; the cultivated crop plant. | * | | | * | | | * | 3 |
| ⁿ Setaria faberi Herrm. | Giant Foxtail | Roadsides, agricultural fields; the earliest collection is 1954. This weed of cultivated ground has increased rapidly in recent years in the Chicago region (Swink and Wilhelm 1994:695). WIS, International Crane Foundation Herbarium. | * | | | * | | | * | 1 |
| ⁿ Setaria glauca (L.) Beauv. (S. lutescens | Yellow Foxtail | Widespread in dry open sites in a variety of soils. | * | * | * | * | | | \$ | 5 |
| (Wiegel) F.T. Hubb.) | | | | | | | | | | |
| ⁿ Setaria verticillata (L.) Beauv. | Bristly Foxtail | Uncommon in dry open places. | | | ♦ | * | | | * | 2 |
| ⁿ Setaria viridis (L.) Beauv. | Green Foxtail | Widespread in dry open sites in a variety of soils; more salt tolerant than <i>S. glauca</i> ? | ♦ | ♦ | ♦ | * | | | * | 5 |
| Sorghastrum nutans (L.) Nash | Indian Grass | Dry prairies in a variety of soils, quartzite and rhyolite glades; sometimes in lowlands. | | * | ♦ | * | | | * | |
| Spartina pectinata Link | Cordgrass | Sedge meadows, alkaline meadows, swales in sandy meadows, wet sandy shores. | | ♦ | ♦ | | | | * | 3 |
| Sphenopholis obtusata (Michx.) Scribn. (incl. S. intermedia (Rydb.) Rydb.) | Wedgegrass | Dry woods and ledges, roadsides, also damp sites in deciduous woods, sandy meadows. | | * | ♦ | * | | | * | 2 |
| ^a Sporobolus compositus (Poir.) Merr. (S. asper (Michx.) Kunth) | Dropseed | Road shoulders and railroad ballast; first collected in the study area in 1973. WIS, AC. | * | | | * | | | \$ | 1 |
| Sporobolus cryptandrus (Torr.) Gray | Dropseed | Dry sandy and limey prairies, also roadsides and railroads, old fields. | * | * | * | * | | | * | 3 |
| Sporobolus heterolepis (Gray) Gray | Prairie Dropseed | Dry sandy and limey prairies, quartzite and rhyolite glades, loamy prairies. | \$ | ♦ | * | * | | | \$ | 3 |

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| ACEAE (GRAMINAE) RASS FAMILY (continued) | | | | | | | | | |
| Sporobolus neglectus Nash (incl. S. vaginiflorus (Torr.) Wood) | Dropseed | Dry sandy and limey prairies, quartzite glades, sandy shores, also road shoulders. | | * | | ♦ | * | | |
| Stipa spartea Trin. | Needle Grass | Dry prairies, sandy or limey. | ······ | ····· | | ······ | ······ | | ····· |
| ^a Triplasis purpurea (Walt.) Chapman | Sand Grass | Collected near Spring Green in 1957 and 1968; adventive from farther west or south. WIS. | | • • • • • • | | * | | | * 1 |
| Vulpia octoflora (Walt.) Rydb. (Festuca octoflora Walt.) | Six-weeks Fescue | Dry sandy often disturbed ground, including fields, roadsides, also quartzite and rhyolite glades. | ······· | | | ÷ | ······ | | \$ 3 |
| ⁿ Zea mays L. | Corn | Occasionally appearing out of cultivation and persisting briefly. | | ······ | | . | ······ | | |
| Zizania aquatica L. ONTEDERIACEAE | Wild Rice | Marshy borders of rivers, streams, and ponds; mainly in shallow water. Cited as growing along the Wisconsin River in the original land survey of T12N, R8E in 1845. Still along the Wisconsin in certain places. Also along Honey Creek, for example in the Witwen area, and along the Baraboo River, for example between Reedsburg and LaValle. Certain populations, seemingly native, were actually introduced, for example the upper end of Mirror Lake where this species was planted in approximately 1930 by W.D. Cahoon; apparently it was not here before this time (W.D. Cahoon, personal communication, 1972) |). | | | * | * | | |
| R 16, 1932, Trans. WASAL Heteranthera dubia | 27:228-30 Water Star-grass | Lakes and sloughs. | ····· | ······ | ·········· | ········ | ····· | ····· | ······································ |
| (Jacq.) MacM. Pontederia cordata L. | Pickerelweed | Ponds and sloughs. | | | | | | | |
| TAMOGETONACEAE ONDWEED FAMILY R 33, 1951, Trans. WASAL | | Lakes, creeks and associated pools, | | ····· | ······ | ······ | ····· | | ······································ |
| Potamogeton amplifolius | | | | | | | | | |
| Potamogeton amplifolius Tuckerm. ⁿ Potamogeton crispus L. | Curly Pondweed | sloughs. Lakes, especially their drainages, also sloughs; tolerant of turbid and polluted water. Known in North America since the mid-1800s and the western Great Lakes region since about 1900 (Stuckey 1979); the first collections for the study area are from 1974. | ····· | | * | * | * | | ♦ 2 |
| Tuckerm. | | Lakes, especially their drainages, also sloughs; tolerant of turbid and polluted water. Known in North America since the mid-1800s and the western Great Lakes region since about 1900 (Stuckey 1979); the first collections for the study area are | | ** | * | | * | | 21 |

| | | | ВН | DLSP | DL Only | wu | СР | WR Only | C Only | Sk Co | AC |
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| POTAMOGETONACEAE PONDWEED FAMILY (con | ntinued) | | | | | | | | | | |
| Potamogeton foliosus Raf. | Pondweed | Pools, creeks, sloughs. | ••••• | \$ | | | * | | | * | 2 |
| Potamogeton gramineus L. | Pondweed | Ponds and lakes, Wisconsin River bays. | * | \$ | * | | ♦ | | | * | 2 |
| Potamogeton illinoensis Morong | Pondweed | Known only from Devil's Lake and an embayment of Lake Redstone near LaValle. KL. | | * | * | * | | | | \$ | 1 |
| Potamogeton natans L. | Pondweed | Lakes and ponds. WIS. | | \$ | * | | * | | • • • • • • | * | 1 |
| Potamogeton nodosus Poir. | Pondweed | Wisconsin River sloughs, also ponds and lakes. | * | ••••• | * | * | * | | | * | 2 |
| Potamogeton pectinatus L. | Sago Pondweed | Marshy ponds and lakes, sloughs. | | | | * | \$ | | | * | 2 |
| Potamogeton pusillus L. (incl. <i>P. berchtoldii</i> Fieber) | Pondweed | Lakes, marshy ponds, sloughs. | | * | * | | * | | | \$ | 2 |
| Potamogeton robbinsii Oakes | Pondweed | Lakes and marshy ponds. WIS, KL. | | * | * | * | | | | * | 1 |
| Potamogeton spirillus Tuckerm. | Pondweed | Lakes and marshy ponds. KL. | | * | * | | | | | \$ | 1 |
| Potamogeton strictifolius Benn. | Pondweed | Known only from Seeley Lake in Freedom Township, where collected in 1986. KL. | * | | | | | | | | 1 |
| SC Potamogeton vaseyi Robbins | Pondweed | Lakes, ponds. WIS, MIL. | | * | | ••••• | * | * | | * | 1 |
| Potamogeton zosteriformis Fern. | Pondweed | Marshy ponds and lakes, sloughs. | . | • • • • • • • | • • • • • • • | * | | * | | * | 2 |
| SMILACACEAE SMILAX FAMILY | | | | | | | | | | | |
| PR 34, 1950, Trans. WASAL | 40(1):228-29, 235 | | | | | | | | | | |
| Smilax ecirrata (Kunth) S. Wats. | Upright Smilax | Low forests and swamps, Sugar Maple woods, oak woods. | | | • | | * | | | \$ | 3 |
| Smilax illinoensis Mangaly | Carrion-flower | Deciduous woods and thickets. See Mangaly (1968) for a description and illustration of this species. | * | ••••• | | * | | | | | 2 |
| Smilax lasioneura Hook. (incl. S. herbacea L.) | Carrion-flower | Deciduous woods, upland and lowland, especially along their borders, also thickets, hedgerows. | * | * | ••••• | * | * | | | | 3 |
| Smilax tamnoides L. (S. hispida Torr.) | Greenbrier | Deciduous woods, upland and lowland, also thickets, hedgerows, clearings. | * | * | | * | * | | | \$ | 3 |
| SPARGANIACEAE BUR-REED FAMILY PR 6, 1930, Trans. WASAL 2 | 25:186-87 | | | | | | | | | | |
| Sparganium americanum Nutt. | Bur-Reed | Bur-reeds colonize wet shores, marshy areas, and the shallow water of ponds, lakes, creeks, and sloughs. KL. | * | | | * | | | | | 2 |
| Sparganium erectum L. | Bur-Reed | | | * | | | | | | \$ | 1 |
| (S. chlorocarpum Rydb.) | | | | | | | | | | | |

| | | | - | Lo | cality | and A | Abuı | ndanc | e Coc | le |
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| YPHACEAE C AT-TAIL FAMILY PR 6, 1930, Trans. WASAL | . 25:183-84 | | | | | | | | | |
| Typha augustifolia L. | Narrow-leaved Cat-tail | Lake shores, sloughs, swales. All records are recent (since 1974). | | * | | | * | | · · · · · · · · · · · · · · · · · · · | → 2 |
| Typha latifolia L. | Common Cat-tail | Widespread in wet or seasonally wet open ground, often in shallow water; especially numerous in certain low meadows and marshes along the Wisconsin River and in the Bear Creek drainage. | * | * | | ······ | * | | | ♦ 5 |
| YRIDACEAE YELLOW-EYED-GRASS PR 16, 1932, Trans. WASA | | | | | | | | | | |
| Xyris torta Sm. | Yellow-eyed-grass | Damp to wet sandy shores, sandy meadows, open wet sandy ditches. | | | | | * | | | |
| ANNICHELLIACEAE HORNED PONDWEED PR 33, 1951, Trans. WASA | | | | | | | | | | |
| Zannichellia palustris L. | | Sloughs and springy areas; known only from Spring Green Township. KL. | • • • • • • | ••••• | | | | | | ♦ 1 |
| DICOTS | | | | | | | | | | |
| | | | | | | | | | | |
| CERACEAE MAPLE FAMILY PR 8, 1930, Trans, WASAL | . 25:195-97 | | | | | | | | | |
| | . 25:195-97 Box-elder | Mainly lowlands and river bottoms, also weedy in a variety of disturbed sites. The range of this species has been extended by introductions and the escaping of cultivars (Fassett 1930b), and probably with the disturbances accompanying historic land settlement. | * | ······ | | ······ | ······ | | | → 5 |
| MAPLE FAMILY PR 8, 1930, Trans. WASAL | | weedy in a variety of disturbed sites. The range of this species has been extended by introductions and the escaping of cultivars (Fassett 1930b), and probably with the disturbances accompanying historic land | ************************************** | ************************************** | | ····································· | ************************************** | | | |

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| CERACEAE MAPLE FAMILY (continued, |) | | | | | | | | | |
| Acer saccharum Marsh. (incl. A. nigrum Michx. f.) | Sugar Maple | Deciduous and mixed forests, typically with Basswood, Yellow Birch, and/or Hemlock, rarely swampy areas. The best developed stands are in sites relatively protected from fire and strong wind. See Lange (1990:17) for a more detailed discussion of the distribution of this species in the study area. Black Maple (A. nigrum) is recognized as a full species in Kartesz (1994, 1:30). | * | * | | * | * | | | |
| Acer spicatum Lam. | Mountain Maple | Cool wooded ravines, bases and slopes of north facing timbered bluffs, Hemlock stands; may form thickets, often with Red Elder. | * | * | | * | * | | | \$ 3 |
| ADOXACEAE MOSCHATEL FAMILY PR 64, 1974, Trans. WASAL (| 62:247-51 | | | | | | | | | |
| T Adoxa moschatellina L. | Moschatel | Known only from sandstone bluffs in Yellow Birch-Hemlock stands in LaValle Township; on moss-liverwort beds, with ferns and <i>Pilea pumila</i> (Figure 45). WIS, KL. | | | | * | | | | |
| AIZOACEAE CARPETWEED FAMILY | | | | | | | | | | |
| ^a Mollugo verticillata L. | Carpetweed | Open dry sites, including sandy fields, sand blows, sand bars and banks, road shoulders, railroad ballast. First collected in the study area in Baraboo in 1891; adventive from farther south. | * | * | | * | * | | •••• | |
| AMARANTHACEAE AMARANTH FAMILY PR 45, 1961, Trans. WASAL | 50:75_87 | | | | | | | | | |
| Amaranthus albus L. | Tumbleweed | Weedy prairies. WIS. | | • • • • • • | | ······ | | | • • • • • • | |
| | | Disturbed sites, including road shoulders, | | | | <u>`</u> | ٠٠٠.٠ | | • • • • • • • | → 1 |
| Amaranthus blitoides S. Wats. (A. graecizans of authors, not L.) | Amaranth | weedy prairie; adventive from western North America? WIS. | | | | · · · · · · · · | · · · · · · · · · | | | · · · · · · · · · · · · · · · · · · · |
| ⁿ Amaranthus hybridus L. | Green Amaranth | Known only from a 1988 collection from a weedy marsh, mainly in <i>Phalaris</i> ; adventive? KL. | | \$ | | | | | | ♦ 1 |
| ⁿ Amaranthus retroflexus L. | Pigweed | Weedy in gardens, agricultural land, roadside; first collected in the study area in a Baraboo garden in 1892. | * | * | | * | * | • • • • • • | | * 4 |
| Amaranthus tuberculatus (Moq.) J.D. Sauer (Acnida altissima (Riddell) Standl and var. subnuda (S. Wats.) Fern.) | Amaranth | Damp to wet shorelines of creeks and rivers, lowland fields, wet ditches, roadsides. | | | | * | * | | • | \$ 3 |
| Froelichia floridana (Nutt.) Moq. | Cottonweed | Dry open sandy ground, especially sites with shifting sand, also sandstone cliffs and hillsides. | | •••• | | * | | | | ⇒ 3 |

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| MARANTHACEAE MARANTH FAMILY (co | mtinued) | | | | | | | | |
| ^a Froelichia gracilis (Hook.) Moq. | Cottonweed | Collected in 1956 from a sandy roadside; generally considered native of western America, west of the Mississippi River (Sauer and Davidson 1961:86). WIS. | | | * | | | ••••• | → 1 |
| NACARDIACEAE UMAC FAMILY R 29, 1940, Trans. WASAL | 22:102.04 | | | | | | | | |
| SC Rhus aromatica Ait. (incl. R. arenaria (Greene) G. N. Jones & R. trilobata Nutt.) | Fragrant Sumac | Dry, thinly wooded, limey sandstone cliffs and hillsides in Caledonia Township; in Sauk County represented by a single plant in a hedgerow amid fields and deciduous woods on an old farm in Baraboo Township, where first noted in 1991 (M.C. Barrett and S.P. Weber). Based upon herbarium specimens, known in Wisconsin from a total of 5 counties. WIS, KL. | | | | ************************************** | | | ↑ 1 |
| Rhus copallina L. | Winged Sumac | Dry, thinly wooded sandstone, conglomerate, and quartzite outcrops, also dry sandy Black Oak woods. Based upon herbarium specimens, known in Wisconsin from a total of 14 counties. | | * | * | | | •••• | |
| Rhus glabra L. | Smooth Sumac | Widespread in dry, open and semi-open sites, but mainly edge habitats; ranging into drier sites than Staghorn Sumac. | * | * | * | * | | ••••• | |
| Rhus typhina L. | Staghorn Sumac | Widespread in dry, open and semi-open sites, but mainly edge habitats; see Smooth Sumac. | * | * | * | * | | ••••• | |
| Toxicodendron radicans (L.) Kuntze (Rhus radicans L.) | Poison-ivy | Woods and thickets and also in full sun, often weedy. A vine or low shrub, rarely tree-like. | * | ÷ | * | * | | | |
| Toxicodendron vernix (L.) Kuntze (Rhus vernix L.) | Poison Sumac | Sedge meadows, Leather-leaf bogs, Tamarack swamps, low sandy woods, fens; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | ••••• | * | | ····· | | | ♦ 3 |
| PIACEAE (UMBELLIFER ARSLEY FAMILY Iathias and Constance [19 | | | | | | | | | |
| Angelica atropurpurea L. | Angelica | Sunny or shady, springy mucky ground, including sedge meadows, fens and alkaline meadows, Tamarack swamps, Alder thickets, ditches. | * | ÷ | | ····· | | | → 3 |
| Berula erecta (Huds.) Cov. (B. pusilla (Nutt.) Fern.) | | Known only from Leech Creek fen. KL. | | | | * | ••••• | | \$ 1 |
| ⁿ Carum carvi L. | Caraway | Occasionally escaping to roadsides. Reported for the late 1800s from the Greenfield bluffs (<i>Baraboo News Republic</i> 28 February 1983) and the "wagon road" between Prairie du Sac and Baraboo (Cheney 1899:70). The source of caraway seeds. | ····· | | | | | | |

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| PIACEAE (UMBELLIFER PARSLEY FAMILY (continu | | | | | | | | | |
| Cicuta bulbifera L. | Water-hemlock | Low meadows, fens and alkaline meadows, cat-tail marshes, Alder thickets, mucky shores; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | > | * | | * | | | ⇒ 3 |
| Cicuta maculata L. | Water-hemlock | Low meadows, fens, sandy meadows, Alder thickets, Tamarack swamps, marshy openings in hardwood forests. | ······· | * | * | * | | | |
| Cryptotaenia canadensis (L.) DC. | Honewort | Deciduous woods, upland and lowland, often swampy sites; may be weedy in bare ground. | * | * | * | * | | •••• | \$ 4 |
| ⁿ Daucus carota L. | Wild Carrot; Queen-Anne's-lace | Fields, roadsides, and other disturbed places. The garden carrot is derived from this species. | * | * | * | * | ••••• | | |
| ⁿ Eryngium planum L. | Eryngo | A garden perennial established in lawns at Devil's Lake State Park, where it was first collected in 1946. WIS, KL. | | * | | | | | † 1 |
| Eryngium yuccifolium Michx. | Rattlesnake-master | Once occurred here (Lueders 1895:518), but there are no specimens. Now planted in a number of areas; spreading? | * | | • | * | | | \$ 1 |
| Heracleum maximum Bartr. (H. lanatum Michx.) | Cow-parsnip | Low meadows and thickets, marshy streamsides, wet borders of woods, moist roadsides. | * | | * | * | | | \$ 3 |
| Hydrocotyle americana L. | Water-pennywort | Seepy streamsides and depressions, usually where shaded and cool, also Tamarack swamps, Alder thickets, low sandy woods, sedge meadows. | | ♦ | * | * | | | \$ 3 |
| Osmorhiza claytonii | Sweet Cicely | Mainly upland forests, including Jack | * | * | * | ····· | | • • • • • • | ♦ 4 |
| (Michx.) C. B. Clarke | | Pine-oak woods and Hemlock stands, also lowland hardwood forests. Often in drier sites than the next species. | | | | | | | |
| Osmorhiza longistylis (Torr.) DC. | Sweet Cicely | Often in relatively moist, cool forests, but in a variety of wooded habitats; see O. claytonii. | * | * | ······· | * | | ••••• | * 3 |
| Oxypolis rigidior (L.) Raf. | Cowbane | Low meadows and thickets, fens and alkaline meadows, sandy meadows, low sandy woods, wet roadsides. | * | * | | * | | ••••• | ♦ 3 |
| ⁿ Pastinaca sativa L. | Parsnip | Fields, roadsides, and other disturbed places. The plants growing wild have presumably spread from cultivation, as strains are grown for their edible roots. | * | * | * | * | | | ♦ 5 |
| T Polytaenia nuttallii DC. | Prairie-parsley | Found in 2 rhyolite glades in the Baraboo Hills in 1968—a total of more than 100 plants, but in 1992 only 2 stems were noted in the larger of these glades. Also in a quartzite glade in Devil's Lake State Park, where 3 plants were noted in 1946 (Zimmerman 1947:90); this station was rediscovered in 1992—a total of 6 non-flowering stems. Also in a sandy meadow in Caledonia Township in 1974. | * | * | | * | | | ♦ 2 |
| Sanicula canadensis L. | Black Snakeroot | Relatively open deciduous woods and savannas. KL, AC. | | | | | • | ••••• | ♦ 1 |

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| APIACEAE (UMBELLIFERA PARSLEY FAMILY (continu | | | | | | | | |
| Sanicula marilandica L. | Black Snakeroot | Deciduous woods, dry to mesic, also Hemlock stands. | | * | | * | | \$ 3 |
| Sanicula odorata (Raf.) K.M. Pryer & L.R. Phillippe (S. gregaria Bickn.) | Black Snakeroot | Deciduous woods, upland and lowland. | * | * | . | * | | \$ 4 |
| Sanicula trifoliata Bickn. | Black Snakeroot | Deciduous woods, generally mesic. | | | | | | \$ 2 |
| Sium suave Walt. | Water-parsnip | Wet marshy depressions, for example glacial kettles, also sedge meadows, loamy prairies, cat-tail marshes, marshy sloughs, river shores. | ····· | ♦ | ♦ | . | | * 3 |
| Taenidia integerrima (L.) Drude | Yellow-pimpernel | Known only from a roadside colony in Westfield Township. KL. | | | * | | | * 1 |
| Zizia aurea (L.) W.D.J. Koch | Golden Alexander | Deciduous woods, especially swampy or springy sites, also fens and alkaline meadows, loamy prairies, railroads. | * | * | ····· | | | \$ 3 |
| APOCYNACEAE DOGBANE FAMILY | | | | | | | | |
| Apocynum androsaemifolium L. | Spreading Dogbane | Dry prairies, forest edges, dry woods, in a variety of soils; also railroad ballast. | * | * | * | | | \$ 4 |
| Apocynum cannabinum L. (A. sibiricum Jacq.; incl. A. cannabinum L. var. pubescens (R. Br.) Woods.) | Indian Hemp | Dry prairies, sandy or limey, sandy meadows; also railroad ballast. | * | * | * | * | | |
| ⁿ Vinca minor L. | Common Periwinkle | Occasionally spreading from ground-cover plantings, for example by buildings, cemeteries. | | | ····÷ | . | | |
| AQUIFOLIACEAE HOLLY FAMILY | | | | | | | | |
| Ilex verticillata (L.) Gray | Winterberry | Swamps, wet pockets in woods, low thickets, marshy borders. | * | * | | \$ | | \$ 4 |
| Nemopanthus mucronatus (L.) Loes. | Mountain Holly | Low sandy woods, Tamarack swamps, low thickets, sedge meadows, marshy borders. | | | | ♦ | | \$ 2 |
| ARALIACEAE GINSENG FAMILY PR 35, 1950, Trans. WASAL | 40(1):83-85 | | | | | | | |
| Aralia hispida Vent. | Bristly Sarsaparilla | Exposed outcrops of sandstone and quartzite, and associated dry sandy woods. A colony in Devil's Lake State Park noted by J.H. Zimmerman in 1946 persisted until 1990. | | | | ···· | | ÷ 2 |
| Aralia nudicaulis L. | Wild Sarsaparilla | A widespread ground-cover plant of oak and Jack Pine-oak woods, Sugar Maple forests, Hemlock stands; often forms large colonies. Commonly associated with Big-leaved Aster. | | ············· | ····· | ···· | | ············· |

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| ARALIACEAE GINSENG FAMILY (conti | nued) | | | | | | | | |
| Aralia racemosa L. | Spikenard | Usually mesic and often moist deciduous or mixed forests, Hemlock stands; often along edges. | \$ | * | | \$ | * | | \$ 3 |
| SC Panax quinquefolius L. | Ginseng | Deciduous and mixed forests, where often in relatively moist sites, also pine plantations within deciduous forest (Figure 50). The "Sang" of commerce (Schorger 1969). | * | * | | * | | | \$ 3 |
| Panax trifolius L. | Dwarf Ginseng | Deciduous and mixed forests, typically swampy or boggy places. | * | | | | * | | → 2 |
| ARISTOLOCHIACEAE BIRTHWORT FAMILY | | | | | | | | | |
| Asarum canadense L. | Wild Ginger | Moist shaded slopes and associated creek or river bottoms in deciduous and mixed forests, often where limey; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | | * | * | | \$ 3 |
| ASCLEPIADACEAE MILKWEED FAMILY PR 40, 1957, Trans. WASAI | <u>.</u> 46:107-14 | | | | | | | | |
| Asclepias amplexicaulis Sm. | Wavy-leaved Milkweed | Dry sandy and especially limey prairies, abandoned fields where limey. | ♦ | * | | * | * | | \$ 3 |
| Asclepias exaltata L. | Tall Milkweed | Dry to mesic deciduous and mixed forests, often along their borders, in a variety of soils. | * | \$ | | \$ | * | ••••• | \$ 3 |
| Asclepias hirtella (Pennell) Woods. | Green Milkweed | Sandy meadows, sedge meadows, loamy prairies; known from Cady's Marsh in Reedsburg Township, and Delton, Fairfield, and Caledonia Townships. | | | | | * | | \$ 2 |
| Asclepias incarnata L. | Swamp Milkweed | Low meadows, sandy meadows, cat-tail marshes, fens and alkaline meadows, loamy prairies, Alder thickets, Tamarack swamps, marshy sloughs, marshy openings within hardwood forests. | * | | | * | ···· | | ♦ 4 |
| T Asclepias lanuginosa Nutt. | Woolly Milkweed | Dry prairies, limey or sandy, also open sandy disturbed areas, for example powerline swaths. In the Baraboo Hills known only from a limey hill prairie at the west end of the South Range, where in 1981 a total of approximately 90 flowering stems was noted; in 1992 and 1993 this species could not be found at this station. In 1993 it also could not be relocated at another station, also a limey hill prairie, where it had been found in 1956. The most recent record (A. Clark) is a total of 7 stems in a several acre patch of prairie sod on the terminal moraine of the Wisconsin Glacier in the former Sauk Prairie in 1993 (Figure 44). | * | | | * | * | | |

| | | | | Locality | and . | Abu | ndanc | e Cod | le |
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| CLEPIADACEAE ILKWEED FAMILY (con: | tinued) | | | | | | | | |
| T Asclepias ovalifolia Dcne. | Oval-leaved Milkweed | Recent (1970s and 1980s) records are from sandy Black Oak woods and Jack Pine-oak woods; associated ground-cover plants include <i>Carex pensylvanica</i> and prairie species. Two University of Wisconsin-Madison Herbarium specimens, labelled "N. of Baraboo, Wis., Sandy roadside" (1893) and "Baraboo, Wis." (no date) are of uncertain location; they could be from the Baraboo Hills or the Central Plain, hence are herein regarded as Sauk County only. | | | | * | | | |
| E Asclepias purpurascens L. | Purple Milkweed | In 1966 a total of at least 30 plants was noted in Devil's Lake State Park along and in an approximately 30-year-old White Pine plantation just north of the Badger Army Ammunition Plant; 2 of these plants bloomed that year, and one set seed. In 1978 one plant was in bloom, and in 1985 a group of 4 plants was noted. Then in 1993 single flowering stems were found in 3 | * | * | * | * | | | → 1 |
| | | different areas along and near the Badger Army Ammunition Plant fence to the east of the plantation (Figure 43), suggesting that this species is spreading. Perhaps this is a remnant population from the historic Sauk Prairie. Also noted in 1993 (a single plant) in an old field bordering deciduous woods in Baraboo Township (M.C. Barrett and S.P. Weber). Sight records also for the Western Upland, for example Troy Township in 1991 (J. Barzen). KL. | | | | | | | |
| Asclepias syriaca L. | Common Milkweed | Dry prairies, dry sandy woods, dry weedy places, also sedge meadows, alkaline meadows, loamy prairies, sandy meadows. This milkweed may be expanding its range here, as in the southeastern United States (Wyatt et al. 1993). | * | * | * | * | | | ♦ 5 |
| Asclepias tuberosa L. | Butterfly-weed | Dry prairies in sandy and limey soil, also rhyolite and (rarely) quartzite glades; occasionally in dry woods bordering prairie. | * | * | * | * | | | \$ 3 |
| Asclepias verticillata L. | Whorled Milkweed | Dry open sites in a variety of soils; weedy, like <i>A. syriaca</i> . | * | * | * | * | | | \$ |
| Asclepias viridiflora Raf. | Green Milkweed | Dry limey prairies, also dry sand; usually just 1-6 stems at a given station. | * | | \$ | * | | | * |
| | Trans. WASAL 52:255-342; | PR 49, 1963, Trans. WASAL 52:343-52; PR 50, 19 | 63, Tra | nns. WASAL 5 | 2:353-8 | 2; PR | 55, 196 | 6, Trans | i. |
| ASAL 55:187-222; PR 56, Achillea millefolium L. | Yarrow, Milfoil | 3-42; PR 62, 1970, Trans. WASAL 58:353-71 Widespread in a variety of sunny disturbed sites. | . | > | . | | | | |
| ⁿ Achillea ptarmica L. | Sneezeweed | A roadside colony noted in 1988. KL. | | ······ ♦ | | • • • • • | | | * 1 |

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| ASTERACEAE (COMPOSI COMPOSITE FAMILY (con | | | | | | | | | |
| Ambrosia artemisiifolia L. | Common Ragweed | Weedy in agricultural land and other sunny disturbed places, also prairies, open woods. | ······ | * | | * | * | | ⋄ 5 |
| Ambrosia psilostachya DC. | Western Ragweed | Dry open places, including disturbed sites, usually sandy soil, sometimes limey. | ••••• | | ••••• | * | * | • | ♦ 2 |
| Ambrosia trifida L. | Giant Ragweed | Low meadows and thickets, marshy sloughs, wet or swampy woods, ditches, occasionally in relatively dry disturbed places. | ····÷ | * | | * | * | | → 3 |
| Anaphalis margaritacea (L.) Benth. | Pearly Everlasting | Dry, relatively open and cool oak woods or mixed forests, usually sandy soil. | * | | | | | | ⇒ 2 |
| Antennaria howellii Greene (incl. A. neodioca Greene and A. petaloidea (Fern.) Fern.) | Pussytoes | Species of Antennaria occur mainly in dry open ground, such as sandy woods and Red Cedar glades, especially their borders and openings, also fields and other grassy places, prairies, pastures, and road cuts, but sometimes in rich soil or lowland sites. A. parlinii and A. plantaginifolia are herein recognized after Beals and Peters (1966). | * | | | * | * | | → 2 |
| Antennaria neglecta Greene | Pussytoes | | | | | \$ | | | > 3 |
| Antennaria parlinii Fern. (A. fallax Greene & A. munda Fern.) | Pussytoes | | * | * | | * | * | | \$ 4 |
| Antennaria plantaginifolia (L.) Richardson | Pussytoes | | * | | | * | * | | \$ 3 |
| ⁿ Anthemis cotula L. | Stinking Chamomile | A weed of agricultural land, especially barnyards, also roadsides, railroads. | * | * | | * | * | | \$ 4 |
| ⁿ <i>Arctium minus</i> Bernh. | Burdock | Weedy in disturbed places, sunny or shady; often in barnyards, waste areas, pastures, and other sites associated with livestock where the soil is high in nitrogen. The earliest reported collection for the study area (Columbia County) is 1926 Johnson and Iltis 1963:278); the earliest historic dates for the study area are 1872 for Wisconsin Dells, 1878 for Prairie du Sac, and 1880 for Baraboo (Lange 1980b). | * | * | | * | * | | → 5 |
| ⁿ Artemisia absinthium L. | Absinthe | Spreading from abandoned gardens into agricultural land. KL. | * | | | | | | ♦ 1 |
| ^a Artemisia biennis Willd. | Wormwood, Sage | River shores, agricultural land. First collected in the study area in 1940; presumably native to western North America (Mickelson and Iltis 1966:211). WIS, KL. | | * | | | * | | ♦ 1 |
| Artemisia campestris L. (A. caudata Michx.) | Wormwood, Sage | Dry prairies, sandy or limey, also weedy in disturbed places. | * | | * | * | | | \$ 4 |
| Artemisia ludoviciana Nutt. (A. gnaphalodes Nutt.) | Wormwood, Sage | Mainly dry sandy sites, especially along the Wisconsin River but also inland; sometimes in railroad ballast, for example Devil's Lake State Park. | > | * | | · | * | | \$ 3 |

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| TERACEAE (COMPOSI | TAE) | | | | | | | | | | |
| OMPOSITE FAMILY (cor | | | | | | | | | | | |
| Artemisia serrata Nutt. | Saw-leaf Mugwort | Alluvial meadows, wooded creek borders, Alder thickets, sandy meadows, alkaline meadows; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | | ·····÷ | | * | * | | | | |
| Aster borealis (T. & G.) | Rush Aster | Alkaline meadows and fens, loamy | | ····· | | | * | | • • • • • • • | | |
| Prov. (A. junciformis Rydb.) | | prairies, sandy meadows; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | | | | | | | | | |
| Aster cordifolius L. | Heart-leaved Aster | Dry to mesic woods and their edges, roadside ditches. | | | | * | | | | | |
| Aster ericoides L. (A. multiflorus Ait.) | Heath Aster | Dry sandy or limey prairies, sandy meadows, sandy river banks and roadsides; in Devil's Lake State Park known only from a dry prairie on sandstone. | | * | | * | * | | ••••• | ♦ 3 | |
| Aster fragilis Willd. | Small White Aster | Sandy meadows. For a discussion of this scientific name, see Jones (1980 <i>b</i> :246). | | | | | * | | ••••• | | |
| Aster laevis L. | Smooth Aster | Dry prairies and dry open woods in a variety of soils, also sandy meadows; primarily an edge species? | ÷ | | | | * | | ••••• | | |
| Aster lanceolatus Willd. (A. paniculatus Lam.; A. simplex Willd.) | Marsh Aster | Low meadows, low thickets, Tamarack swamps, low sandy woods, fens and alkaline meadows, cat-tail marshes, marshy sloughs, marshy openings within hardwood forests; more prevalent and numerous than <i>A. puniceus</i> , with which it is often associated. | | * | | * | ····· | | | | |
| Aster lateriflorus (L.) Britt. (incl. A. tradescantii L.) | Calico Aster | Upland and lowland woods, shady or sunny, often in edge habitats and often weedy; rare in areas formerly prairie or savanna. | | * | ••••• | | * | | | ♦ 5 | |
| Aster linariifolius L. | Flax-leaved Aster | Generally in open sandy sites but also in dry sandy woods, rarely in limey soils; in Devil's Lake State Park known only from Parfrey's Glen. | ÷ | ···· | | ········ | * | | | | |
| Aster macrophyllus L. | Big-leaved Aster | Dry to mesic, especially Red Oak woods, where often in large colonies, especially after disturbance, for example logging; commonly associated with <i>Aralia</i> nudicaulis. | * | ·········· | | ······· | * | | | | |
| Aster novae-angliae L. | New England Aster | Sedge meadows, fens and alkaline meadows, loamy prairies, marshy streamside thickets, low weedy fields and roadsides. | | | | | | | | * 3 | |
| Aster oblongifolius Nutt. | Oblong-leaved Aster | Often a dominant aster in dry sandy or limey prairies, quartzite or rhyolite glades. | | > | • • • • • | | | | | | |
| Aster ontarionis Wieg. (A. pantotrichus Blake in Wisconsin literature) | Ontario Aster | Primarily a riparian species; characteristic of the wooded bottoms of the Wisconsin and Baraboo Rivers. Also inland, for example swampy woods, edges of low meadows. | * | ·········· | | ········· | ······ | | | | |

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| Aster oolentangiensis Riddell (A. azureus Lindl.) | Azure Aster | Dry sandy or limey prairies and quartzite glades, dry oak woods, sandy meadows. | * | * | | * | * | | | * | 3 |
| Aster pilosus Willd. | Frost Aster | Weedy and often covering large areas in sunny disturbed sites, for example abandoned farm land. | * | ♦ | | · | ♦ . | | | ····· | 5 |
| Aster prenanthoides Muhl. | Zig-zag Aster | Lowland hardwood forests and bordering thickets and meadows, marshy openings within deciduous woods. | * | * | | · | | | | * | 3 |
| Aster puniceus L. (incl. A. lucidulus (Gray) Wieg.) | Red-stemmed Aster | Sedge meadows, Alder thickets, Tamarack swamps, low sandy woods, fens and alkaline meadows, marshy openings within decidous forests; less prevalent and numerous than <i>A. lanceolatus</i> , with which it is often associated. | * | * | | * | ···· | | | * | 3 |
| Aster sagittifolius Willd. (incl. A. drummondii Lindl. and A. urophyllus Lindl. as infraspecific taxa) | Arrow-leaved Aster | Mainly relatively dry woods, especially their borders and often in disturbed sites, also roadsides in wooded locales. Often in areas more open in the past; originally a species of oak savanna? The <i>A. sagittifolius</i> complex is a taxonomically difficult group, with differing interpretations of relationships; Jones (1980a, 1989), for example, includes the name, <i>A. sagittifolius</i> (of authors), in the synonymy of <i>A. cordifolius</i> L., <i>A. drummondii</i> Lindl., and <i>A. urophyllus</i> Lindl., and recognizes these | ······ | * | | ♦ | * | | | . | 5 |
| Aster sericeus Vent. | Silky Aster | 3 taxa as species. Dry prairies, especially where limey but also sandy; on rhyolite but not quartzite. | | | • • • • • • | . | ····· | | | * | 3 |
| | | In Devil's Lake State Park known only from a dry prairie on sandstone. | | | | | | | | | |
| Aster shortii Lindl. | Short's Aster | Dry to often mesic woods. | * | * | | | | | | * | 2 |
| Aster umbellatus Mill. | Flat-topped White Aster | Sandy meadows, low sandy woods, low thickets, Tamarack swamps, alkaline meadows, roadside ditches; mainly in the Central Plain. | * | * | | * | * | | | * | 3 |
| Bidens cernuus L. | Bur-marigold | Pioneering on newly exposed ground after the receding of high water, also sedge meadows, marshy thickets. | | * | | ♦ | * | | | * | 4 |
| Bidens coronatus (L.) Britt. | Bur-marigold | Sedge meadows, alkaline meadows and fens, marshy ponds. | | | | * | * | | | * | 2 |
| Bidens discoideus (T. & G.) Britt. | Bur-marigold | Wet marshy ground. WIS. | | | | | * | | | * | 1 |
| Bidens frondosus L. | Bur-marigold | Pioneering on newly exposed ground after the receding of high water, also sedge meadows, low sandy woods; sometimes weedy in relatively dry, disturbed places. | * | * | | ········ | ······ | | | * | 3 |
| Bidens tripartitus L. (B. comosus (Gray) Wieg.) | Bur-marigold | Pioneering on newly exposed ground after the receding of high water, also sedge meadows, cat-tail marshes. | * | * | | * | * | | | * | 3 |

| | | | Locality and Abundance Code | | | | | | le |
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| Bidens vulgatus Greene | Bur-marigold | Sedge meadows and other marshy sites, also weedy in relatively dry, disturbed places. | * | * | * | | | • • • • • • • • • | * 3 |
| Boltonia asteroides (L.) L'Hér. (incl. B. latisquama Gray) | | Banks, wet shores, swales and meadows along the Wisconsin River and up the Baraboo River for approximately a mile. | | | ····· | * | * | | |
| Brickellia eupatorioides (L.) Shinners (Kuhnia eupatorioides L.) | False Boneset | Dry especially limey prairies, roadsides; in the Baraboo Hills known only from the west end of the South Range. | * | | | * | • • • • • • | | ♦ 3 |
| SC Cacalia muehlenbergii (Schultz-Bip.) Fern. | Indian-plantain | Lowland and alluvial hardwood forests, also in relatively dry openings in upland deciduous woods. Most numerous (several hundred plants) in a Honey Creek bottomland forest with a history of grazing. Cacalia is not recognized in Kartesz (1994); C. muehlenbergii is listed therein as Arnoglossum muehlenbergii (Schultz-Bip.) H.E. Robins. | * | | * | | | | |
| Cacalia suaveolens L. | Indian-plantain | Alkaline meadows, low meadows, loamy prairies, Alder thickets, hardwood swamps; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. Cacalia is not recognized in Kartesz (1994); C. suaveolens is listed therein as Synosma suaveolens (L.) Britt. | | * | * | | | | * 3 |
| ⁿ Carduus acanthoides L. | Plumeless Thistle | First noted in the study area in approximately 1967 in Prairie du Sac Township, and in Devil's Lake State Park in 1971 along the railroad track. See <i>C. nutans</i> L. | ····· | ························◆ | | * | | | |
| ⁿ Carduus nutans L. | Plumeless Thistle | First noted in the study area in Prairie du Sac Township in 1981, and in Devil's Lake State Park in 1987 in agricultural land. Both species of <i>Carduus</i> occur in open disturbed areas, such as old pastures, and both are among the most troublesome weeds of the Great Lakes region. Not yet widespread in the study area, but increasing, especially <i>C. acanthoides</i> ; neither species was found by Hartley (1962, 1966). | * | ····································· | * | ····· | | | |
| ⁿ Centaurea maculosa Lam. | Spotted Knapweed | Open disturbed especially limey places, for example roadsides and railroads. | * | | | * | | | ♦ 3 |
| n Cichorium intybus L. | Chicory; Blue-sailors | Open disturbed places, especially roadsides, pastures. | | * | ♦ | \$ | | | \$ 5 |
| Cirsium altissimum (L.) Spreng. | Tall Thistle | Relatively dry, often limey deciduous woods, especially their borders, also roadsides and railroads, rarely alkaline meadows. | | * | · | ······ | | | |

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| ⁿ Cirsium arvense (L.) Scop. | Canada Thistle | Weedy in open disturbed places, including upland and lowland fields, roadsides and | * | * | ♦ | * | ♦ 5 |
|---|-----------------------|--|----------|-----------|----------|-------------|------------|
| (E.) Scop. | | railways. Already of concern in 1866, when it was reported that a patch in Baraboo Township had increased in several years from a bed of 5-6 ft square to a field | | | | | |
| Cirsium discolor (Willd.) Spreng. | Prairie Thistle | of over 2 acres (Lange 1980b). Loamy prairies, sandy meadows, sedge meadows, alkaline meadows; sometimes persisting (weedy?) in abandoned farm fields. | | | | ··········· | |
| T Cirsium hillii (Canby) Fern. | Hill's Thistle | Noted (several hundred plants) in 1969 and 1974 in a loamy pasture in the Baraboo Valley in the former Peck's Prairie (Lange 1990:14), the only station in the Baraboo Hills for this species (cover photo). Also in the Western Upland, where in 1986 a total of approximately 150 plants was noted in a dry prairie at the base of a limey bluff in the "Wisconsin Desert" by Spring Green, and in the Central Plain where in approximately 1970 a station was found in Prairie du Sac Township in sandy soil. KL. | * | | * | * | ♦ 1 |
| Cirsium muticum Michx. | Swamp Thistle | Sedge meadows, fens and alkaline meadows, loamy prairies, Alder thickets, Tamarack swamps. | * | | * | * | → 3 |
| ⁿ Cirsium vulgare (Savi) Tenore | Bull Thistle | Weedy in open and wooded disturbed places, dry to wet. Sites include cultivated areas, pastures, degraded woods, sedge meadows, fens; particularly numerous after | * | ♦ | * | * | ♦ 5 |
| | | major disturbances, such as logging. | | | | | |
| Conyza canadensis (L.) Cronq. | Horseweed | Widespread in open, relatively dry disturbed areas, such as fallow fields, roadsides, railroads, pavement. | ♦ | * | | ♦ | ♦ 5 |
| ⁿ Coreopsis lanceolata L. | Lance-leaved Tickseed | Railroad and roadside plants presumably represent escaped garden stock, but some populations, for example in dry sandy prairies, might be native. | * | * | | * | → 2 |
| Coreopsis palmata Nutt. | Tickseed | Dry prairies in sandy and limey soil, quartzite and rhyolite glades, also dry sandy woods. | * | * | * | * | → 4 |
| ⁿ Crepis tectorum L. | Hawk's Beard | Relatively dry disturbed sites, for example in pavement, along roads, railways, in lawns. First collected in Devil's Lake State Park in 1978. | * | * | * | * | ♦ 3 |
| Erechtites hieracifolia (L.) DC. | Pilewort | A widespread weed: sedge meadows, akaline meadows, sandy meadows, oak-pine woods, low sandy woods, sandstone cliffs, gravelly trail borders, waste ground. | * | * | * | ♦ | ⋄ 4 |
| Erigeron annuus (L.) Pers. | Daisy Fleabane | Disturbed sites, for example along roads and trails in hardwood forests, pastures and fallow fields, railroad ballast. | * | \$ | * | * | ♦ 4 |

| | | | Locality and Abundance Code | | | | | | e |
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| TERACEAE (COMPOSITE FAMILY (con | | | | | | | | | |
| Erigeron philadelphicus L. | Fleabane | Sites vary from dry, for example fallow fields, to moist, for example marshy lowlands, alluvial woods. | * | * | | * | | · • • • • • • • | |
| Erigeron pulchellus Michx. | Robin's-plantain | Mainly relatively dry deciduous woods, also fallow fields, wet areas. | * | | ········· | * | | | |
| Erigeron strigosus Willd. | Daisy Fleabane | Weedy in dry sunny sites, such as prairies, sandy meadows, fallow fields, roadsides and railroads, sandstone and dolomite cliffs and ledges. | * | * | * | ····· | | | * 5 |
| Eupatorium altissimum L. | Tall Boneset | Dry limey prairies and associated open woods, railroads. | ••••• | | | * | | | |
| Eupatorium maculatum L. | Joe Pye Weed | Low meadows, fens and alkaline meadows, loamy prairies, Alder thickets, Tamarack swamps, low sandy woods; may form extensive stands. | * | * | ÷ | ····· | | | ♦ 3 |
| Eupatorium perfoliatum L. | Boneset | Low meadows, fens and alkaline meadows, sandy meadows, loamy prairies, low thickets, Tamarack swamps, low sandy woods, cat-tail marshes. | * | * | | ····· | | | ·········· 4 |
| Eupatorium purpureum L. | Joe Pye Weed | Deciduous woods, where usually in relatively moist, open sites. | * | | ♦ | * | | ••••• | ♦ 3 |
| Eupatorium rugosum Houtt. | White Snakeroot | Dry to wet woods, where often numerous in disturbed places; occasionally in open sites, for example dry prairies bordering forests. | | * | | | ••••• | | |
| SC Eupatorium sessilifolium L. | Upland Boneset | Characteristic of dry, relatively open woods on limey bluffs, also on all 3 bluffs at Devil's Lake State Park; typically these sites border dry prairies or quartzite glades. | | * | | | | ••••• | |
| Euthamia graminifolia (L.) Nutt. (Solidago graminifolia (L.) Salisb.) | Grass-leaved Goldenrod | Dry sandy prairies and associated sandy woods, sandstone cliffs, sandy roadsides, sandy lake and river shores, sandy meadows, sedge meadows, loamy prairies; sites seemingly vary from dry to wet, but usually are at or near the water table. | ······ | * | | ····· | | | |
| Euthamia gymnospermoides Greene (Solidago gymnospermoides (Greene) Fern.) | | Dry sandy prairies. Local but numerous where found; a western species here reaching its eastern limit in Spring Green Township. WIS, KL. | | | ♦ | | | | * 1 |
| ^a Gaillardia aristata Pursh | | Represented by a roadside collection in Reedsburg Township in 1977; native west of the Great Lakes. MIL. | | | * | | | | * 1 |
| ⁿ Galinsoga quadriradiata Cav. (G. ciliata (Raf.) Blake) | Peruvian Quickweed | Sunny moist areas, including lake shores, creek margins. | ······ | | \$ | | ••••• | | |
| Gnaphalium obtusifolium L. | Cudweed | Dry prairies, fallow fields, upland woods, usually sandy soil. | | * | \$ | | | | |
| T Gnaphalium saxicola Fassett | Cliff Cudweed | Local on sandstone cliffs in the Wisconsin Dells and Mirror Lake area; a Wisconsin endemic, insofar as presently known. For this taxon, see Ballard and Kowal (n.d.) and Fassett (1931). | | | | ······ | | | ↑ 1 |

| Locality and A | Abundance Coo | le |
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| ⁿ Gnaphalium uliginosum L. | Low Cudweed | Sunny moist areas, including lake shores, creek margins, sandstone cliffs near water, low spots in trails. | * * | | ····································· | |
| ^a Grindelia squarrosa (Pursh) Dunal | Gumweed | Dry open disturbed places, such as gravel pits, railways, lawns, in sandy or limey soil. A western species; presumably adventive. KL. | | * | ♦ | ♦ 1 |
| Helenium autumnale L. | Sneezeweed | Low meadows including pastures, also sandy meadows, Alder thickets. | * * | * | \$ | \$ 3 |
| ^a Helenium flexuosum Raf. | Purplehead Sneezeweed | A 1978 collection from a weedy sandy meadow in Delton Township, with <i>Liatris pycnostachya</i> and <i>Aletris</i> ; a southeastern species. KL. | | | * | ♦ 1 |
| ^a Helianthus annuus L. | Common Sunflower | A weed of disturbed ground, such as agricultural land, roadsides, rarely in dry open woods. | * * | | * | |
| Helianthus decapetalus L. | | Alluvial and swampy woods, roadside ditches, sometimes relatively dry deciduous woods. | * * | | | |
| Helianthus giganteus L. | Big-toothed Sunflower | Loamy prairies, sandy meadows, sedge meadows, Alder thickets, stream borders in riparian woods. | * * | * | * | |
| Helianthus grosseserratus Martens | Big-toothed Sunflower | Alkaline meadows, low meadows, sandy meadows, roadside ditches; in Devil's Lake State Park known only from an akaline meadow between the east and south bluffs. | * * | * | * | → 3 |
| ⁿ Helianthus maximiliani Schrad. | | An 1892 collection from Devil's Lake State Park; presumably a garden escape. WIS. | ♦ | | | \$ (|
| Helianthus mollis Lam. | Ashy or Downy Sunflower | A colony noted in a grassy field in Mirror Lake State Park in 1993; spreading from cultivation or adventive? KL, AC. | | | * | |
| Helianthus occidentalis Riddell | Naked-stemmed Sunflower | Dry prairies in sandy and limey soil, quartzite glades, dry sandy woods. | * * | * | * | |
| Helianthus pauciflorus Nutt. (H. rigidus (Cass.) Desf.) | | Dry sandy and limey prairies, sandy roadsides. | * | * | * | ⇒ 3 |
| ^a Helianthus petiolaris Nutt. | Plains Sunflower | Weedy in dry sandy prairies; a western species. WIS, KL. | | * | | ⇒ 1 |
| Helianthus strumosus L. | Woodland Sunflower | Relatively dry oak woods and oak-pine woods, especially their borders; appears to advance with oaks into adjoining dry prairies and glades. | * * | * | | |
| Helianthus tuberosus L. | Jerusalem-artichoke | Alluvial woods and meadows, also escaping from cultivation and spreading along roads and other moist weedy places; has been grown for its edible tubers. | * * | * | * | ⇒ 4 |
| Heliopsis helianthoides (L.) Sweet (and var. scabra (Dunal) Fern.) | Early Sunflower | Sedge meadows, alkaline meadows, Alder thickets, relatively dry woods, roadsides; mainly an edge species, like <i>Helianthus</i> strumosus? | * * | * | * | ⇒ 3 |

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| TERACEAE (COMPOSI OMPOSITE FAMILY (co | | | | | | | | | | |
| ⁿ Hieracium aurantiacum L. | Devil's Paint-brush | Weedy fields, pastures, forest borders and openings, sandy meadows. | * | * | | * | | | | * 3 |
| Hieracium kalmii L. (incl. H. canadense of authors, not Michx.) | Kalm's Hawkweed | Loamy prairies, sandy meadows, dry mainly sandy prairies, dry sandy woods. | * | * | | | * | | | |
| Hieracium longipilum Torr. | Prairie Hawkweed | Dry sandy, sometimes limey prairies, sandy meadows; also on quartzite, for example weedy Red Cedar glades. | | | | * | * | ••••• | ••••• | * 3 |
| ⁿ Hieracium piloselloides Vill. (incl. H. caespitosum Dumort. & H. pratense Tausch) | King Devil | Dry open places, including roadways, grassy fields, weedy cliffs. | ••••• | ··········◆ | | | ····· | | ••••• | |
| Hieracium scabrum Michx. | Bristly Hawkweed | Dry sandy or limey woods, also sandy or limey cliffs and associated prairies, quartzite glades. | | > | | · | * | | ••••• | * 3 |
| Hieracium umbellatum L. | | Dry sandy woods (Hartley 1962:524). | • • • • • • • | • • • • • • • • | | | * | | | † 1 |
| ⁿ Hypochaeris radicata L. | Cat's Ear | Found in 1974, a sandy roadside in Dellona Township, for the second Wisconsin record (Harriman 1980). UW-Oshkosh, WIS, MIL, KL. | | | ••••• | | ······ | | ••••• | * 1 |
| ⁿ Inula helenium L. | Elecampane | Collected in a weedy field on an abandoned farm in Freedom Township in 1968; cultivated as an ornamental and medicinal plant. KL. | * | | ••••• | | | ••••• | | * 1 |
| Krigia biflora (Walt.) Blake | Dwarf Dandelion | Sandy meadows, mesic and dry prairies, dry open woods. | | * | • • • • • • | | * | • • • • • • • | • • • • • • • | ♦ 3 |
| Krigia virginica (L.) Willd. | Dwarf Dandelion | Typically in dry open sand; abundant on an outcrop of Dake Quartzite near Baraboo (Clayton and Attig 1990:10-11), but not on Baraboo Quartzite. | ······ | | | ··········◆ | | | | → 3 |
| Lactuca biennis (Moench) Fern. | Woodland Lettuce | Relatively open and moist sites in upland woods, low sandy woods, Tamarack swamps. | ····· | | • • • • • | ···········◆ | ······ | | • • • • • • | * 3 |
| Lactuca canadensis L. | Wild Lettuce | Dry prairies in a variety of soils, loamy prairies, weedy fields, dry open woods, sedge meadows, sandy meadows, fens, low thickets, Tamarack swamps. | . | | | * | ····· | | | |
| Lactuca floridana (L.) Gaertn. | Blue Lettuce | Dry to mesic woods, where often along edges, for example roadways, trails. | | * | | * | | | | * 2 |
| Lactuca ludoviciana (Nutt.) Riddell | Prairie Lettuce | Known only from a weedy dry prairie in Merrimac Township. WIS. | • | | | * | • • • • • | | | * 1 |
| ⁿ Lactuca serriola L. (L. scariola L.) | Prickly Lettuce | Roadsides and railroad beds, vacant lots and other open disturbed places, pavement, degraded prairies and woods. This is the wild ancestor of cultivated lettuce, <i>L. sativa</i> . | . | * | ••••• | * | * | | | ♦ 4 |
| ⁿ Lapsana communis L. | Nipplewort | Found in open disturbed ground in Devil's Lake State Park in 1973. KL. | | * | • • • • • • | ••••• | | | | † 1 |

| Loc | Locality and Abundance Code | | | | | | | | | | |
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| BH DLSP | Only WU | CP | Only | Only | Co | AC | | | | | |

| ASTERACEAE (COMPOSI COMPOSITE FAMILY (con | | | | | | | |
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| in Leucanthemella serotina (L.) Tzvelev (Chrysanthemum uliginosum Pers. fide Mickelson and Iltis 1966:197; Tanacetum serotinum (L.) Schulz-Bip.) | Giant Daisy | A roadside colony noted in Mirror Lake State Park in 1990; still there in 1997. KL. | ······ | | | * | ♦ 1 |
| ⁿ Leucanthemum vulgare Lam. (Chrysanthemum leucanthemum L.) | Common Daisy | Roadsides, weedy fields, and other dry and open disturbed sites. | * | | ♦ | * | ♦ 3 |
| Liatris aspera Michx. (L. scariosa (L.) Willd. × L. spaeroidea sensu Shinners, not Michx.) | Blazing Star | Quartzite glades, dry sandy prairies, sandy meadows, sandy roadsides; also in dry limey prairies but less frequently. | ········ ♦ | * | * | * | → 4 |
| Liatris cylindracea Michx. | Blazing Star | Dry limey prairies, rarely dry sandy prairies, sandy meadows. | * | | | ♦ | ⇒ 3 |
| Liatris pycnostachya Michx. | Gay Feather | Loamy prairies, sandy meadows, sedge meadows. Known only from the Central Plain (Cady's Marsh in Reedsburg Township, and Dellona, Delton, Fairfield, and Caledonia Townships), except for a station in Devil's Lake State Park. Introduced in Baraboo's Manchester Meadows Nature Study Area at the sewage treatment plant. | * | * | | * | ⇒ 2 |
| ^a Matricaria discoidea DC. (M. matricarioides of authors) | Pineapple Weed | Weedy in barnyards, waste places, lawns, along roads and railways. | * | * | * | * | ♦ 4 |
| ⁿ Matricaria recutita L. (M. chamomilla L.) | False Chamomile | A 1949 collection from the Prairie du Sac area. WIS. | | | | * | ♦ 1 |
| Megalodonta beckii (Spreng.) Greene | Water-marigold | A 1987 collection from Devil's Lake. WIS, KL. | • • • • • • • • | * | \$ | | † 1 |
| SC Nothocalais cuspidata (Pursh) Greene (Agoseris cuspidata (Pursh) Raf.; Microseris cuspidata (Pursh) Schultz-Bip.) | Prairie Dandelion | Dry sandy prairies and sand blows, dry limey prairies; recent records are from Spring Green Township and Owl's Head prairie in Merrimac Township. WIS, MIL, KL. | | | * | * | → 1 |
| Polymnia canadensis L. | Leafcup | Dry to moist woods, including their borders; often where especially rocky, for example talus slopes. This species appears to pioneer on and near rocks, where it may shade out <i>Corydalis sempervirens</i> , a lower growing and primary pioneer in such sites. | * | * | * | * | |
| Prenanthes alba L. | Rattlesnake-root | Upland hardwood forests and associated glades, sandstone cliffs, also lowland woods, low meadows. | * | | * | * | \$ 3 |

| | | | | Locality | ana . | Abui | ndance Cod | ie |
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| TERACEAE (COMPOSI | TAE) | | | | | | | |
| DMPOSITE FAMILY (con E Prenanthes aspera Michx. | ntinued) Rough White Lettuce | Known only from the Wisconsin River near Wisconsin Dells, no date (Johnson and Iltis 1963:304, 307), and dry sandy prairie and adjoining dry limey bluff prairie in the "Wisconsin Desert" by Spring Green, 1969 and 1978 collections. Still there in 1994 (Wisconsin Flora, No. 4. 1994. Bot. Club Wis.). WIS, KL. | | | | * | | ⇒ 1 |
| E Prenanthes crepidinea Michx. | | A station discovered along a stream in a Sugar Maple forest in Freedom Township in 1992. Swink and Wilhelm (1994:608) report it from similar habitat: "moist shaded places, such as thickets on floodplains and stream banks." WIS, AC, KL. | * | | | | | ↑ 1 |
| Prenanthes racemosa Michx. | Glaucous White Lettuce | Loamy prairies, alkaline meadows, sandy meadows. At one station, a sandy meadow in Pine Island Wildlife Area, there were 20 stalks in 1986, 4 in 1991, and 19 in 1993, and at another station, a several acre patch of loamy prairie near Reedsburg, there were approximately 30 stalks in 1993 and 5 in 1994. Known historically (an 1887 collection) from "Baraboo, Wis." | * | | | * | | |
| <i>Ratibida pinnata</i> (Vent.) Barnh. | Prairie-coneflower | Dry sandy and limey prairies, including disturbed sites, also railways, roadways. | | | | | | ♦ 3 |
| Rudbeckia hirta L. (R. serotina Nutt.) | Black-eyed Susan | Dry to mesic prairies, sandy meadows, fens, pastures and weedy fields, dry woods, cliffs, dry roadsides. | | * | * | * | | ♦ 5 |
| Rudbeckia laciniata L. | Coneflower | Moist woods, especially along creeks, also deciduous swamps, Alder thickets, sedge meadows, fens, loamy prairies. | ♦ | \$ | * | * | | ⇒ 3 |
| Rudbeckia subtomentosa Pursh | Sweet Coneflower | Confined to low meadows, including sandy meadows, along the Wisconsin River. | ••••• | | * | * | * | \$ 2 |
| ⁿ Rudbeckia triloba L. | Coneflower | The only records are of plants persisting (and spreading?) from plantings. WIS, KL. | * | * | | | | * 1 |
| Senecio aureus L. | Golden Groundsel | Moist woods, especially along creeks, also deciduous swamps, wet thickets. | > | * | * | * | | \$ 3 |
| Senecio pauperculus Michx. | Northern Ragwort | Low meadows, loamy prairies, dry prairies; usually limey soil. | * | * | * | * | | |
| ⁿ Senecio vulgaris L. | Common Groundsel | A 1941 collection from a roadside in Prairie du Sac (Barkley 1963:347). WIS. | | | | * | | † 1 |
| Silphium integrifolium Michx. | Rosinweed | This species can no longer be found at Ferry Bluff, where it was collected in 1922; presumably it is extirpated in the study area. Listed by Lueders (1895:519). WIS, MIL. | | | * | | | ↑ 1 |
| Silphium laciniatum L. | Compass-plant | Loamy prairies, especially where limey, also dry limey prairies; several populations are persisting as colonies along rural roads. | | | | * | | |
| Silphium perfoliatum L. | Cup-plant | Along creeks in wooded ravines, low meadows, alkaline meadows, marshy sloughs, Alder thickets, roadside ditches. | > | * | * | ····· | | ♦ 3 |

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| Silphium terebinthinaceum Jacq. | Prairie-dock | A total of 3 stations within 3 miles of one another along the outer margin of the South Range of the Baraboo Hills in Merrimac and Caledonia Townships: one along an abandoned road leading into the lower end of Parfrey's Glen, one at a rural cemetery, and one along a rural road. Also a station in Baraboo along the Baraboo River (a total of 16 plants in 1994). | * | * | | | * | | | |
| Solidago canadensis L. (incl. S. altissima L.) | Canada Goldenrod | Weedy fields, dry to mesic prairies where often in disturbed sites, dry open woods, sedge meadows, fens and alkaline meadows, sandy meadows, Leather-leaf bogs, Alder thickets. | | * | | * | \$ | | | ♦ 5 |
| Solidago flexicaulis L. (S. latifolia L.) | Zig-zag Goldenrod | Dry to usually mesic woods, including Hemlock stands. | | \$ | | | * | | | |
| Solidago gigantea Ait. (S. serotina Ait.) | Late Goldenrod | Low meadows, fens and alkaline meadows, loamy prairies, sandy meadows, cat-tail marshes, river sloughs, marshy openings in deciduous woods, low thickets, Leather-leaf bogs, Tamarack swamps, low sandy woods; may be weedy. | * | * | | * | * | | | ♦ 4 |
| Solidago hispida Willd. | Hairy Goldenrod | Dry to moist mixed woods, also open sandstone outcrops and associated prairie, quartzite glades. | | | | | | | | ♦ 3 |
| Solidago juncea Ait. | Early Goldenrod | Quartzite glades and dry prairies on sandstone, including weedy sites, also loamy prairies, sandy meadows. | * | | ••••• | | | | •••• | * 3 |
| Solidago missouriensis Nutt. | Missouri Goldenrod | Dry prairies, mainly sandy but also limey. | | | | * | | | | \$ 2 |
| Solidago nemoralis Ait. | Old-field Goldenrod | Often the dominant goldenrod in dry prairies in limey or sandy soils and glades, also sandy meadows, weedy fields, open cliffs. | ·····◆ | ·····÷ | | | * | | | * 4 |
| Solidago patula Willd. | Rough-leaved Goldenrod | Low wet ground, including Tamarack swamps, Alder thickets and associated sedge meadows, marshy openings within deciduous forest, low sandy woods, wooded stream valleys; in full or partial sun. In Devil's Lake State Park known only from the wetland complex between the east and south bluffs. | * | | | ·········· | * | | •••• | → 3 |
| Solidago ptarmicoides (T. & G.) Boivin (Aster ptarmicoides (Nees) T. & G.) | | Dry prairies, mainly limey but also sandy. | * | | | * | * | | | ⇒ 2 |
| Solidago riddellii Frank | Riddell's Goldenrod | Fens and alkaline meadows, also loamy prairies where presumably limey; known from Cady's Marsh in Reedsburg Township, Leech Creek fen in Fairfield Township, and an alkaline meadow in Merrimac Township. Apparently at its westernmost limit in Wisconsin in the study area (Salamun 1963: 378, map 25). KL. | | | | | * | | | ♦ 1 |

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| TERACEAE (COMPOSI OMPOSITE FAMILY (con | | | | | | | | | |
| Solidago rigida L. | Stiff Goldenrod | Dry limey or sandy prairies, sandy roadsides, loamy prairies. The only stations for the Baraboo Hills are located in the former Peck's Prairie (Lange 1990:14). | * | | ♦ | * | | | * 2 |
| SC Solidago sciaphila Steele | Cliff Goldenrod | Open or thinly wooded sandstone and dolomite outcrops; in the Baraboo Hills mainly in the west end of the South Range, with one station in the North Range. Locally common along the Wisconsin River in the Wisconsin Dells region, mainly just outside the study area (Wisconsin Department of Natural Resources 1997:19). A species with a restricted distribution centered in the Upper Midwest (Pusateri et al. 1993:33). | \$ | | * | * | | | → 3 |
| Solidago speciosa Nutt. | Showy Goldenrod | Dry prairies and open woods in a variety of soils, but mainly sandy, also quartzite and rhyolite glades. | ······ | | * | * | | | |
| Solidago uliginosa Nutt. | | Marshy habitats. WIS. | | | * | * | | | * 1 |
| Solidago ulmifolia Willd. | Elm-leaved Goldenrod | Dry to mesic deciduous woods, mixed woods, Hemlock stands, also associated dry prairies and glades, in a variety of soils. | | * | | * | | ••••• | |
| ⁿ Sonchus arvensis L. (incl. S. uliginosus Bieb.) | Sow-thistle | Weedy sites, dry to moist, especially along highways. | . | * | * | * | ••••• | ••••• | |
| ⁿ Sonchus asper (L.) Hill | Sow-thistle | Weedy in agricultural land and waste ground; the earliest record is an 1892 collection from Baraboo. WIS. | * | | | | | | ♦ 1 |
| ⁿ Sonchus oleraceus L. | Sow-thistle | Weedy in farm land, but more so in cities, for example next to buildings and in parking lots and alleys. KL. | * | | \$ | \$ | ••••• | ••••• | * 3 |
| ⁿ Tanacetum vulgare L. | Tansy | Escaping from plantings to roadsides and other open disturbed places; common in northern Wisconsin. WIS, KL. | | ÷ | | ••••• | ••••• | | \$ 1 |
| ⁿ Taraxacum laevigatum (Willd.) DC. (T. erythrospermum Bess.) | Red-seeded Dandelion | Weedy woods, pastures; undoubtedly more widespread than indicated. WIS. | . | | | | | | ↑ 1 |
| ⁿ Taraxacum officinale Wiggers | Common Dandelion | Weedy in a great variety of disturbed places, except the wettest. First noted in the study area in Fairfield Township in approximately 1855; numerous and widespread within some 25 years (Lange 1980b). | * | * | * | * | ••••• | ••••• | ♦ 5 |
| ⁿ Tragopogon dubius Scop. | Goat's-beard | Dry disturbed places, such as roadsides, railroads, grassy fields, weedy prairies, sandstone cliffs. | * | ÷ | \$ | ······ | | | ⋄ 5 |
| n Tragopogon pratensis L. | Goat's-beard | Weedy in dry open places. | | * | | ····· | | | ⇒ 3 |

| | | | | Locality | and | Abu | ndan | e Coc | le | |
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| ASTERACEAE (COMPOSIT | • | | | | | | | | | |
| Verbesina alternifolia (L.) Kearney (Actinomeris alternifolia (L.) DC.) | Wing-stem | Hundreds of plants were discovered in 1987 along the Ferry Bluff Road in lowland deciduous forest edge, a first record for Wisconsin; subsequently several other colonies were discovered along roads away from Honey Creek. Swink and Wilhelm (1994:81) report it from similar habitat: "floodplains along streams." WIS, KL. | | | * | ····· | * | | * | 1 |
| Vernonia fasciculata Michx. | Ironweed | Low meadows, loamy prairies, sandy meadows, low pastures, sometimes weedy in upland woods. | * | * | * | * | | | \$ | 3 |
| ⁿ Xanthium strumarium L. | Cocklebur | Sandy lake and river shores, sandbars, pond margins, waste places, abandoned fields, cornfields. | | * * | * | * | | | \$ | 2 |
| BALSAMINACEAE TOUCH-ME-NOT FAMILY | (| | | | | | | | | |
| Impatiens capensis . Meerb (I. biflora Walt.) | Spotted Touch-me-not | Low meadows, marshy stream borders, Alder thickets, Tamarack swamps, low sandy woods, marshy openings and wet spots in deciduous woods. | * | * | * | * | | ••••• | * | 4 |
| Impatiens pallida Nutt. | Pale Touch-me-not | Sometimes growing with <i>I. capensis</i> , but tending to be in drier, often rocky sites. | * | | • • • • • • • | ••••• | • • • • • • • | ••••• | * | 2 |
| BERBERIDACEAE BARBERRY FAMILY PR 33, 1946, Trans. WASAL 3 | 38:206-08 | | | | | | | | | |
| ⁿ Berberis thunbergii DC. | Japanese Barberry | Escaping from cultivation to woods and plantations; immune to wheat rust. | * | * | * | * | | | \$ | 3 |
| ⁿ Berberis vulgaris L. | Common Barberry | This shrub, the alternate host of wheat rust, was virtually eradicated by the U.S. Department of Agriculture in the 1920s (Baraboo Weekly News 14 July 1927) and 1930s (Baraboo Weekly News 16 August 1934). A major source of these plants was F.G.J. Lueders of Sauk City (see History of Botanical Investigations in the Study Area), who brought stock with him from Germany (Baraboo Weekly News 12 April 1923). The only herbarium record is an 1884 collection labelled "Baraboo." WIS. | * | | | | | | \$ | 1 |
| Caulophyllum thalictroides (L.) Michx. | Blue Cohosh | Generally moist sites in Sugar Maple woods, oak woods, also Hemlock stands. | * | * | * | * | | | \$ | 4 |
| SC Jeffersonia diphylla (L.) Pers. | Twinleaf | Known only from a wooded (limey?) stream valley, with the following herbaceous associates: Cryptotaenia, Osmorhiza claytonii, Geum canadense, Circaea lutetiana, Impatiens capensis, Lysimachia ciliata, Hydrophyllum, Podophyllum, Caulophyllum, Aster lateriflorus and A. prenanthoides, and Solidago flexicaulis. Seeds were being shed in 1969 on 7 July. The population in 1992 was estimated by A. Clark to be from 100 to 200 plants. Listed by Lueders (1895:516). KL. | * | | | | | | * | 1 |

| | | | | Loca | lity | and A | Abuı | ndanc | e Cod | le |
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| | *************************************** | | ВН | DLSP (| DL Only | WU | СР | WR Only | C Only | Sk Co AC |
| BERBERIDACEAE BARBERRY FAMILY (conti | inued) | | | | | | | | | |
| Podophyllum peltatum L. | May-apple | Sugar Maple woods and oak woods, including their borders; colonies away from forests, for example in fields and pastures, presumably began growing under trees since removed. | \$ | \$ | | * | . | | ••••• | |
| BETULACEAE BIRCH FAMILY PR 7,1930, Trans. WASAL 2: | 5:189-94 | | | | | | | | | |
| Alnus incana (L.) Moench (A. rugosa (Du Roi) Clausen) | Speckled Alder | Along drainages and lakes, and in Tamarack swamps and sedge meadows; forming thickets in low mucky ground. | ····· | * | | * | | | ••••• | |
| Betula alleghaniensis Britt. (B. lutea Michx. f.) | Yellow Birch | Wooded ravines and gorges, lowland forest, north facing slopes and cliffs; generally associated with Sugar Maple and/or Hemlock. | ····· | | • • • • • | * | * | | ••••• | ♦ 3 |
| Betula nigra L. | River Birch | Devil's Lake, the Wisconsin River, and up the Baraboo River as far as the SH78 bridge but in numbers only to the SW 1/4 of Section 20, T12N, R9E. | | | * | * | * | | ••••• | |
| Betula papyrifera Marsh. (incl. B. cordifolia Regel) | Paper Birch | Pioneering after disturbance, especially in uplands; also in low sandy woods and boggy sites. Old trees sometimes persist in successional forests. | ····· | * | | * | | | | |
| Betula pumila L. (incl. hybrids) | Bog Birch | Alkaline meadows, sedge meadows, Tamarack swamps, Leather-leaf bogs. | | | | | * | | | * 3 |
| Carpinus caroliniana Walt. | Blue Beech | Wooded ravines and moist slopes, also uplands, in deciduous and mixed forests, Hemlock stands. | * | | | * | | | | ♦ 3 |
| Corylus americana Walt. | Common Hazel | Dry deciduous and mixed woods, including their borders and adjoining fields, also hedgerows, low sandy woods. | * | | | \$ | * | | | |
| Corylus cornuta Marsh. (C. rostrata Ait.) | Beaked Hazel | Cooler sites in deciduous and mixed forests and their borders. | | | | * | | | | |
| Ostrya virginiana (Mill.) K. Koch | Ironwood | A characteristic understory tree of oak woods and Sugar Maple forests, also mixed deciduous woods, Hemlock stands. Especially numerous in disturbed woods; probably more numerous now than in early settlement time (Lange 1990:22). | * | * | | * | * | | | ♦ 5 |
| BIGNONIACEAE BIGNONIA FAMILY | | | | | | | | | | |
| ⁿ Catalpa speciosa (Warder) Engelm. | Northern Catalpa | Apparently established and spreading in lowland sites, for example a wooded ravine and a Wisconsin River sand terrace. Burk and Prabhu (1988) report a similar situation in Massachusetts. | ·····⊹ | * | | | > | | | |
| BORAGINACEAE BORAGE FAMILY PR 32, 1944, Trans. WASAL | . 36:273-90 | | | | | | | | | |
| ⁿ Cynoglossum officinale L. | Common Hound's-tongue | Pastures and weedy fields. | ······ | | | | ······· | | | |

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|---|--------------------------|--|--|----------|---------------|-----------|-----------|------------|-----------|---------------|
| | | | ВН | DLSP | DL Only | WU | CP | WR Only | C Only | Sk Co AC |
| ORAGINACEAE BORAGE FAMILY (continu | red) | | | | | | | | | |
| Hackelia defiexa (Wahlenb.) Opiz var. americana (Gray) Fern. & I.M. Johnston (H. americana (Gray) Fern.) | Stickseed | Sandy and especially limey thinly wooded outcrops; in the Baraboo Hills known only from the west end of the South Range. | * | | | ····· | | | | |
| Hackelia virginiana (L.) I.M. Johnston | Virginia Stickseed | Dry weedy woods in a variety of soils, uplands and lowlands. | * | * | ••••• | * | * | | | ♦ 4 |
| Lappula squarrosa (Retz.) Dumort. (L. echinata Gilib.; L. myosotis Moench) | Stickseed | Weedy in dry sandy or gravelly places, for example railroads. | | | | | | | | \$ 2 |
| Lithospermum canescens (Michx.) Lehm. | Hoary Puccoon | Dry prairies, mainly limey, also sandy; noted in rhyolite but not quartzite glades. In Devil's Lake State Park known only from a dry prairie on sandstone. | ······ | | | * | ♦ | | | |
| Lithospermum caroliniense(Gmel.) MacM. (incl. L. croceum Fern.) | Puccoon | Dry prairies, mainly sandy, also limey. | * | | | * | * | | | ♦ 3 |
| Lithospermum incisum Lehm. | Puccoon | Dry prairies, mainly limey. | * | | | \$ | | | •••• | ♦ 3 |
| Mertensia virginica (L.) Link | Bluebells | Alluvial woods in the Western Upland, in Devil's Lake State Park naturalized from a garden planting. WIS. | • • • • • • | * | | * | | | ••••• | ♦ 1 |
| SC Myosotis laxa Lehm. | Forget-me-not | Wooded sloughs, moist sandbars, and other wet places along the Wisconsin River; often associated with cold water springs. | | | | | * | * | | \$ 2 |
| ⁿ Myosotis scorpioides L. | True Forget-me-not | Shaded seepages, sloughs, river banks, and other wet mucky sites. WIS, KL. | | | | \$ | | | | > 1 |
| Myosotis verna Nutt. (M. virginica of authors, not (L.) BSP.) | Forget-me-not | Dry prairies on sandstone, quartzite and rhyolite glades. | ♦ | * | ••••• | * | * | | •••• | ⇒ 3 |
| RASSICACEAE (CRUCIFI MUSTARD FAMILY PR 44, 1961, Trans. WASAL | | | | | | | | | | |
| ⁿ Alliaria petiolata (Bieb.) Cavera & Grande (A. officinalis Bieb.) | Garlic Mustard | First noted in the study area in Devil's Lake State Park in 1985; by 1993 it was widespread in the park and had also been found in several other wooded sites in the Baraboo Hills. Numerous in Mirror Lake State Park, for example Echo Rock Trail, and the Leopold Reserve by at least 1997. | ************************************** | | ••••• | ••••• | ···· | | | ⇒ 2 |
| ⁿ Alyssum alyssoides (L.) L. | Pale Alyssum | Railways, gravelly road shoulders. WIS, MIL, KL. | | ••••• | • • • • • • • | * | ••••• | | •••• | ♦ 1 |
| Arabis canadensis L. | Sicklepod | Mainly in relatively dry oak woods, including adjacent prairies and glades, also Hemlock stands, in a variety of soils. | * | ······· | | | * | | | ⇒ 4 |
| Arabis drummondii Gray | Drummond's Rock Cress | Dry woods and associated prairies and glades, Wisconsin River sandbars, alluvial woods. | | * | | | * | | ••••• | \$ 3 |

| | | | | Locality | and . | Abuı | ndance Cod | le |
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| ASSICACEAE (CRUCIF USTARD FAMILY (conti | | | | | | | | |
| Arabis glabra (L.) Bernh. | Tower Mustard | Dry often weedy places, including disturbed prairies, abandoned farm fields, sandy barrens. | | | | * | | * 2 |
| Arabis hirsuta (L.) Scop. | Hairy Rock Cress | Thinly wooded, especially limey sites. WIS. | | | * | | ••••••• | * 1 |
| Arabis laevigata (Willd.) Poir. | Smooth Rock Cress | Upland and floodplain forests, low meadows. | ······· | * | * | * | | |
| Arabis lyrata L. | Lyreleaf Rock Cress | Mainly dry sandy and limey outcrops and associated prairies, also open sand including sand blows. | ····· | * | * | | | |
| SC Arabis missouriensis Greene var. deamii (M. Hopkins) M. Hopkins | | Known only from a 1937 collection from Parfrey's Glen. WIS. | | * | •••• | | | † 1 |
| Arabis shortii (Fern.) Gl. (A. dentata (Torr.) T. & G.) | | Wisconsin River floodplain forest. Listed by Lueders (1895:516). KL, Leopold Reserve Herbarium. | ••••• | | ••••• | * | * | ↑ 1 |
| ⁿ Armoracia rusticana Gaertn., Mey, & Scherb. | Horseradish | Escaping from cultivation to roadsides; cultivated for a condiment derived from the roots. | | | • • • • • • | | | ♦ 1 |
| ⁿ Barbarea vulgaris R. Br. | Yellow Rocket | Weedy along roads and railways, in old fields, pastures, degraded prairies, shores, disturbed woods. | | | * | * | | ♦ 5 |
| ⁿ Berteroa incana (L.) DC. | Hoary Alyssum | Dry weedy places, including roadsides and railroads, open sandy ground, shores, disturbed prairies and woods. | | | * | * | | ♦ 5 |
| ⁿ Brassica nigra (L.) Koch | Black Mustard | Weeds mentioned as common in the streets and along the sidewalks of Prairie du Sac by 1882 included "mustard" (Lange 1980b), which was probably this species. Waste places and cultivated ground, dry to moist; cultivated for its seeds. WIS. | ************************************** | | •••• | * | | → 1 |
| ⁿ Brassica rapa L. | Field Mustard, Turnip | Weedy in agricultural land and along roads (Clark 1993b, Hartley 1962:570). Turnip, celery cabbage, and bok choy were all developed from this species. | ····÷ | | | * | | → 1 |
| ⁿ Capsella bursa-pastoris (L.) Medic. | Shepherd's-purse | Weedy in old fields, pastures, lawns, gardens, waste places, open woods, roadsides. | ···· | | | * | | |
| Cardamine bulbosa (Muhl.) BSP. | Spring Cress | Sedge meadows, fens, deciduous bottomlands, marshy thickets, muddy shores, springy places. | ····· | | * | * | | * 3 |
| Cardamine douglassii Britt. | Pink Spring Cress | Moist slopes and seepy areas in loamy deciduous woods. KL. | | •••••• | | | | * 1 |
| Cardamine parviflora L. | | Mainly dry rocky woods and exposed outcrops in a variety of soils. | | * | | * | | ♦ 3 |
| Cardamine pensylvanica Willd. | | Mainly moist to wet places, for example wooded creek bottoms, including rocks in streams, also low thickets, deciduous swamps, low meadows, open sand along the Wisconsin River, ditches. | > | * | | * | | |

| Locality and A | Abu | ndanc | e Cod | le | |
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| BH DLSP Only WIJ | CP | Only | Only | Co | 40 |

| ASSICACEAE (CRUCIF USTARD FAMILY (conti | | | | | | | | |
|---|------------------|---|----------------|----------|----------|-------------|---|-----------|
| Dentaria laciniata Willd. | Toothwort | Mainly Sugar Maple or Red Oak forests, sometimes river forests, also drier oak woods where rarely spreading into adjoining prairie. <i>Dentaria</i> is not recognized in Kartesz (1994); <i>D. laciniata</i> is listed therein as <i>Cardamine concatenata</i> (Michx.) Sw. | * | | ·····• | * | | * |
| Descurainia pinnata (Walt.) Britt. | Tansy Mustard | Railways and along wooded trails. | | * | * | • • • • • • | •••• | \$ |
| <i>Draba reptans</i> (Lam.) Fern. | | Dry sandy prairies, open sandy fields, sandstone outcrops, dry limey prairies and associated Red Cedar glades; in the Baraboo Hills confined to the west end of the South Range. | * | | * | * | | * |
| ⁿ Erysimum cheiranthoides L. | Wormseed Mustard | Sandbars and islands, sandy shores. Leopold Reserve Herbarium. | | | | * | | ♦ |
| ^a Erysimum inconspicuum (S. Wats.) MacM. | Treacle Mustard | Dry open disturbed sites, especially railroads, also waste places, degraded prairies; native to western North America. | ········· ♦ | * | * | * | • | ♦ |
| ⁿ Hesperis matronalis L. | Dame's Rocket | Persisting from plantings and spreading to roadsides, railroad embankments, streamsides. | * | * | * | * | | * |
| ⁿ Lepidium campestre (L.) R. Br. | Peppergrass | Dry open disturbed places, usually sandy or gravelly. | | •••••• | * | * | | * |
| Lepidium densiflorum Schrad. | Peppergrass | Dry open usually disturbed ground, sandy or gravelly. | * | * | * | * | | * |
| Lepidium virginicum L. | Peppergrass | Dry open usually disturbed ground, sandy or gravelly. | * | * | * | ♦ | | * |
| Nasturtium officinale | Watercress | Margins of creeks and rivers, ditches, | | | | * | | |
| R. Br. | | seepages, cat-tail marshes; mainly cold spring-fed waters. Nasturtium is not recognized in Kartesz (1994); N. officinale is listed therein as Rorippa nasturtiumaquaticum (L.) Hayek. | | | | | | |
| Rorippa palustris (L.) Bess. | Yellow Cress | Mudflats, especially after the receding of high water, also wet open sand along drainages and lakes, low meadows, marshy swales and kettles; sometimes weedy, for example moist places along roadways in deciduous woods. | | * | * | * | * | * |
| ¹ Rorippa sylvestris (L.) Bess. | Yellow Cress | Moist to wet, open sandy disturbed places. KL. | | | * | | * | \$ |
| Sinapsis arvensis L. Brassica kaber (DC.) Wheeler) | Charlock | Weedy in old fields, cultivated land, pastures, waste places. Generally thought to have been introduced from Europe, but actually present in the northeastern United States for at least 8,000 years before European settlement (Jacobson et al. 1988). | * | * | | * | | \$ |
| ⁿ Sisymbrium altissimum L. | | Dry weedy areas, including waste places, roadsides, railroad ballast, old fields. | * | * | * | * | ••••• | \$ |
| ⁿ Sisymbrium officinale (L.) Scop. | Hedge Mustard | Dry disturbed ground, including agricultural land, waste places, roadsides, railroad ballast. Listed by Lueders (1895: 516). | * | * | * | * | •••• | * |

| | | | | Loc | cality | and | Abuı | ndanc | e Coc | le | |
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| RASSICACEAE (CRUCIF MUSTARD FAMILY (conti | | | | | | | | | | | |
| ⁿ Thlaspi arvense L. | Penny Cress | Open disturbed sites, such as farmland, waste places, ditches. | | * | | * | . | | | .♦ | 3 |
| CACTACEAE CACTUS FAMILY PR 47, 1962, Trans. WASAL | .51:128-34 | | | | | | | | | | |
| T Opuntia fragilis (Nutt.) Haw. | Brittle Prickly-pear | Quartzite and rhyolite glades, limey sandstone and conglomerate outcrops, also a pasture in Caledonia Township, where presumably spread by cattle. Mainly in western North America. | ····÷ | | | | * | | •••• | * | 2 |
| Opuntia macrorhiza Engelm. (O. compressa var. macrorhiza (Engelm.) Benson) | Plains Prickly-pear | Dry sandy and limey prairies and outcrops, rhyolite glades. Rarely on quartzite; in Devil's Lake State Park known only from a dry prairie on glacial till. Primarily a southwestern species. | * | * | | * | * | | | * | 3 |
| CALLITRICHACEAE WATER-STARWORT FAM PR 21, 1933, Trans. WASAL | | | | | | | | | | | |
| T Callitriche heterophylla Pursh | | Cold water creeks and pools in wooded ravines. | *** | | | | | | • • • • • • • | | 2 |
| Callitriche palustris L. (C. verna L.) | Water-starwort | Cold water creeks in wooded ravines, recently exposed mudflats along shores and banks, also relatively warm water of sloughs. | ······· | ····÷ | | ** | ····· | | | . | 3 |
| CAMPANULACEAE BLUEBELL FAMILY (incl. LOBELIACEAE-LOI PR 3, 1929, Trans. WASAL : | | | | | | | | | | | |
| Campanula aparinoides Pursh (C. uliginosa Rydb.) | Marsh Bellflower | Low meadows, fens and alkaline meadows, loamy prairies, Alder thickets, Tamarack swamps. | * | * | | * | ······ | | | * | 3 |
| ⁿ Campanula rapunculoides L. | European Bellflower | Persisting from plantings and spreading. | | * | | | * | | | * | 2 |
| Campanula rotundifolia L. | Harebell | Open to partly shaded dry sandy and limey bluffs, quartzite and rhyolite glades. | * | * | | * | | | | * | 4 |
| Campanulastrum americanum (L.) Small (Campanula americana L.) | Tall Bellflower | Dry to especially moist deciduous and mixed woods, Alder thickets; often in disturbed sites and borders. | ····· | * | | * | ÷ | | | * | 3 |
| Lobelia cardinalis L. | Cardinal Flower | Alluvial woods and low meadows along creeks and rivers. This species "exploded" (thousands of stalks) at the southwestern corner of Devil's Lake in the second year after the receding of high water from a flood year; it was also numerous during the third year, but then greatly reduced. | ♦ | ····• | | . | ♦ | | | * | 3 |
| Lobelia inflata L. | Indian-tobacco | Dry to moist woods, dry prairies, often in disturbed places. | * | * | | | | | | ⇔ | 4 |

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| CAMPANULACEAE BLUEBELL FAMILY (contin | and) | | | | | | | | |
| Lobelia kalmii L. | Brook Lobelia | Known from Leech Creek fen in Fairfield Township and an alkaline meadow in Merrimac Township. A specimen at the University of Wisconsin labelled "Probably Baraboo, Wis." is herein regarded as of uncertain location. WIS, KL. | | | | * | | | |
| Lobelia siphilitica L. | Great Blue Lobelia | Marshy borders of creeks, fens and alkaline meadows, low meadows and pastures, seepage areas in deciduous woods. | * | | | * | | | |
| Lobelia spicata Lam. | Spike Lobelia | Dry sandy and limey prairies, loamy prairies, sandy meadows, dry open deciduous woods. | * | * | * | * | | | * 4 |
| Triodanis perfoliata (L.) Nieuwl. (Specularia perfoliata (L.) A. DC.) | Venus' Looking-glass | Dry often weedy prairies in a variety of soils, also pastures, railroads. | * | * | * | * | • • • • • • • | ••••• | * 3 |
| CAPPARIDACEAE CAPER FAMILY | | | | | | | | | |
| Polanisia dodecandra (L.) DC. | Clammyweed | Railroad gravel, roadsides, sand barrens, sandbars and banks. | * | | * | * | | ••••• | |
| CAPRIFOLIACEAE HONEYSUCKLE FAMILY PR 68, 1979, Trans. WASAL | 67:103-29 | | | | | | | | |
| Diervilla lonicera Mill. | Bush Honeysuckle | Dry to moist woods, sandy or limey, Hemlock stands, cliffs and other rock exposures; often along borders and in disturbed sites. | ······ | | * | * | | | |
| | | | | | | | | | |
| Linnaea borealis L. ssp. longiflora (Torr.) Hultén | Twinflower | The only record is an 1882 collection labelled "Baraboo, Wis."; presumably this came from the Baraboo Hills and possibly from Pine Hollow in Devil's Lake State Park (Lange 1984:121). WIS. | * | | | | | | → 0 |
| ssp. longiflora (Torr.) | Twinflower Bell's Honeysuckle | labelled "Baraboo, Wis."; presumably this came from the Baraboo Hills and possibly from Pine Hollow in Devil's Lake State | * | | | | | | ♦ 0♦ 1 |
| ssp. longiflora (Torr.) Hultén n Lonicera × bella Zabel [L. morrowii × L. tatarica] Lonicera dioica L. | Bell's Honeysuckle Vine Honeysuckle | labelled "Baraboo, Wis."; presumably this came from the Baraboo Hills and possibly from Pine Hollow in Devil's Lake State Park (Lange 1984:121). WIS. More widespread than records indicate? Dry to moist woods and their borders, thickets. | * | | | | | | |
| ssp. longiflora (Torr.) Hultén n Lonicera × bella Zabel [L. morrowii × L. tatarica] Lonicera dioica L. | Bell's Honeysuckle | labelled "Baraboo, Wis."; presumably this came from the Baraboo Hills and possibly from Pine Hollow in Devil's Lake State Park (Lange 1984:121). WIS. More widespread than records indicate? Dry to moist woods and their borders, | * | | | | | | * 1 |
| ssp. longiflora (Torr.) Hultén n Lonicera × bella Zabel [L. morrowii × L. tatarica] Lonicera dioica L. | Bell's Honeysuckle Vine Honeysuckle | labelled "Baraboo, Wis."; presumably this came from the Baraboo Hills and possibly from Pine Hollow in Devil's Lake State Park (Lange 1984:121). WIS. More widespread than records indicate? Dry to moist woods and their borders, thickets. Disturbed sites; more widespread than records indicate? Widely naturalized in | * | | | | | | → 1→ 3 |

| | | | | Locality | and. | Abu | ndance | Cod | le |
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| APRIFOLIACEAE ONEYSUCKLE FAMILY | (continued) | | | | | | | | |
| ⁿ Lonicera xylosteum L. | European Fly Honeysuckle | Disturbed sites. More widespread than records indicate? | | | | ♦ | | | * 1 |
| Sambucus canadensis L. | Common or Black Elder | Sedge meadows and alkaline meadows, low thickets, Tamarack swamps, low sandy woods, roadside ditches, dry to moist woods. | * | * | | * | | | |
| Sambucus racemosa L. ssp. pubens (Michx.) House (S. pubens Michx.) | Northern or Red Elder | Dry to moist woods including ravines, also Hemlock stands, sandstone cliffs; often in areas of cold air drainage, where typically forming thickets with Mountain Maple. | * | * | | | | | |
| Symphoricarpos albus (L.) Blake | Snowberry | Apparently (and inexplicably) confined to dry woods and their borders on the Devil's Lake bluffs. WIS, KL. | | * | | | | • • • • • • • | |
| Symphoricarpos occidentalis Hook. | Wolfberry | A western species known only from dry limey bluffs and dry sandy areas in Spring Green township. KL. | | | * | | | | ↑ 1 |
| Triosteum aurantiacum Bickn. (T. illinoense (Wieg.) Rydb.) | Tinker's-weed | Dry to often moist, mainly deciduous woods. | * | * | * | * | | | ⋄ 3 |
| Triosteum perfoliatum L. | Tinker's-weed | Relatively dry, mainly deciduous woods, brushy fields; generally in more open sites than <i>T. aurantiacum</i> ? | * | * | * | * | • • • • • • • • • | | → 3 |
| Viburnum acerifolium L. | Maple-leaved Viburnum | Oak woods and associated glades, Sugar Maple forests. | * | * | * | * | | | |
| n Viburnum lantana L. | Wayfaring Tree | Persisting from plantings; spreading? | | * | • • • • • • | | | | ·········· |
| Viburnum lentago L. | Nannyberry | Sedge meadows and alkaline meadows, Alder thickets, marshy openings in deciduous woods, wet woods, low pastures, upland woods and dry prairies; mainly where limey? | * | * | * | * | | | ········ 4 |
| Viburnum opulus L. var. americanum Ait. (V. trilobum Marsh.) | Highbush-cranberry | Alluvial woods, creek borders in low meadows, Alder thickets; also persisting after plantings. | * | * | * | * | | | |
| Viburnum rafinesquianum Schultes | Downy Arrow-wood | Mainly upland oak woods and associated glades, also adjoining creek bottoms. | * | * | * | * | | | \$ 3 |
| ARYOPHYLLACEAE INK FAMILY | | | | | | | | | |
| R 46, 1961, Trans. WASAL | | | | | | | | | |
| ⁿ Arenaria serpyllifolia L. | Thyme-leaved Sandwort | Open disturbed sandy and gravelly sites, for example logged woods, abandoned quarries. KL. | ♦ | ♦ | | | | | \$ 1 |
| in Cerastium fontanum Baumg. (C. vulgatum L.) | Mouse-ear Chickweed | Dry open disturbed ground, spreading into woods and low ground. | \$ | ♦ | | * | • • • • • • • • • | | \$ 5 |
| Cerastium nutans Raf. | Nodding Chickweed | Dry to moist woods, creek margins, open rocky ground. | ♦ | * | | | | | \$ 2 |
| ⁿ Dianthus armeria L. | Deptford Pink | Roadsides, forest roads, fallow fields, pastures, dry prairies; in a variety of soils but often sandy. | * | * | * | * | | | \$ 3 |

| | | | | Localit | y and | Abu | ndance Coo | le | |
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| CARYOPHYLLACEAE PINK FAMILY (continued) | | | | | | | | | |
| ⁿ Gypsophila paniculata L. | Baby's Breath | Known only from Devil's Lake State Park, a 1944 collection; a garden plant that sometimes becomes naturalized (Schlising and Iltis 1961:125). WIS. | | * | | ••••• | | \$ | 1 |
| Minuartia michauxii (Fenzl) Farw. (Arenaria stricta Michx.) | Rock Sandwort | Dry sandy and limey outcrops and associated prairies and Red Cedar glades. | * | | | | | * | 4 |
| Moehringia lateriflora (L.) Fenzl (Arenaria lateriflora L.) | Woodland Sandwort | Dry to moist woods, mainly oak woods, also floodplain forests, in sandy, limey, or loamy soils. | | * | | * | | * | 3 |
| ⁿ Myosoton aquaticum (L.) Moench (Stellaria aquatica (L.) Scop.) | Giant Chickweed | Margins of wooded streams, damp places in woods, low thickets, damp cliffs, roadside ditches, pastures. | . | * | * | * | | | 4 |
| Paronychia canadensis (L.) Wood | Whitlow-wort | Dry open woods and associated openings and rock outcrops on sandy and limey bluffs. | | * | * | | · · · · · · · · · · · · · · · · · · · | * | 2 |
| Paronychia fastigiata (Raf.) Fern. | Whitlow-wort | Thinly wooded to open sandstone bluffs and ledges, open sandy ground and sandbars. | • • • • • • | ••••• | * | * | | * | 2 |
| ⁿ Saponaria officinalis L. | Bouncing Bet | Dry open sandy areas, roadsides and railroads, old fields, waste places. | . | * | | * | • | * | 5 |
| ⁿ Scleranthus perennis L. | Perennial Knawel | Dry sandy disturbed areas. Collected at Lake Delton in 1941 " for the first time in Wisconsin, and it appears, for the first time in North America as well" (Schlising and Iltis 1961:98). WIS. | | | | * | | * | 1 |
| Silene antirrhina L. | Sticky Catchfly | Dry prairies in a variety of soils but mainly limey; often weedy, for example railroad ballast. | * | * | * | * | | \$ | 3 |
| ⁿ Silene csereii Baumg. | Bladder Campion | Railroad gravel and embankments, sandbars. | | * | * | * | •••••• | * | 2 |
| ⁿ Silene dichotoma Ehrh. | Forking Catchfly | Dry disturbed places. Noted in the Badger Army Ammunition Plant in 1993 (Clark 1993b). | | | ••••• | * | •••••••••••• | * | 1 |
| n Silene latifolia Poir. ssp. alba (P. Mill.) Greuter & Burdet (Lychnis alba P. Mill.; S. pratensis (Rafn) Godr. & Gren.) | Campion | Disturbed ground, usually dry but also moist, including roadsides and railroads, agricultural land, weedy fields, degraded prairies. | * | | * | * | | * | 5 |
| Silene stellata (L.) Ait. f. | Starry Campion | Dry sandy woods in the eastern end of the North Range of the Baraboo Hills; a species of oak woodland (see Plant Communities). This is one of the 5 native species known only from Caledonia Township (Table 13). KL. | . | | • | | * | | i |
| ⁿ Silene vulgaris (Moench) Garcke (S. cucubalus Wibel) | Bladder Campion | Dry disturbed places. International Crane Foundation Herbarium. | | | • • • • • • • | ······ | ••••• | * | 1 |
| ⁿ Spergularia rubra (L.) J. & C. Presl | Sand-spurrey | Collected on a rocky bluff top in Devil's Lake State Park in 1975. KL. | | . | | | | \$ | 1 |

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| ARYOPHYLLACEAE PINK FAMILY (continued) | | | | | | | | | |
| Stellaria longifolia Willd. | Long-leaved Chickweed | Sedge meadows, fens and alkaline meadows, low woods. | * | * | | * | * | | |
| ⁿ Stellaria media (L.) Vill. | Common Chickweed | Lawns, pastures, roadsides and railroads, waste places, rock outcrops, disturbed woods. | * | ÷ | • • • • • • | | * | | \$ 5 |
| ⁿ Vaccaria hispanica (P. Mill.) Rauschert (Saponaria vaccaria L.; V. pyrimidata Medic.) | Cow Herb | The only herbarium specimen is an 1885 sheet labelled "Baraboo." Listed by Lueders (1895:516). Apparently this was once a common weed of dry disturbed ground and grain fields but is now rare or absent (Schlising and Iltis 1961:124). WIS. | *** | | | | | | |
| ELASTRACEAE BITTERSWEET FAMILY | | | | | | | | | |
| Celastrus scandens L. | Bittersweet | Decicuous and mixed woods, especially their openings and borders, also river and stream banks, thinly wooded and prairie bluffs, fencerows and hedgerows, railroad embankments and roadsides. | * | ······· | | * | * | | |
| Euonymus atropurpurea | Wahoo | Lakeshores, river banks, alluvial woods, also wooded hillsides (especially where | | * | | * | * | | |
| Jacq. | | limey?). | | | | | | | |
| Jacq. CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL | 38:192-94 | | | | | | | | |
| ERATOPHYLLACEAE HORNWORT FAMILY | 38:192-94 Coontail | | \$ | ······· | ······ | ····· | ····· | | ······ 3 |
| CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL Ceratophyllum | | limey?). Lakes, ponds, sloughs, backwaters of | | | | ······ | * | | * 3 * 1 |
| CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL Ceratophyllum demersum L. Ceratophyllum echinatum Gray CHENOPODIACEAE GOOSEFOOT FAMILY Wahl [1970] | Coontail | Lakes, ponds, sloughs, backwaters of creeks. More acidic water than the preceding species; known only from the Wisconsin Dells area. WIS. | | ······· | ····÷ | ······· | | | |
| CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL Ceratophyllum demersum L. Ceratophyllum echinatum Gray CHENOPODIACEAE GOOSEFOOT FAMILY Wahl [1970] | Coontail | Lakes, ponds, sloughs, backwaters of creeks. More acidic water than the preceding species; known only from the Wisconsin Dells area. WIS. | | * | * | ···· | | | |
| CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL Ceratophyllum demersum L. Ceratophyllum echinatum Gray CHENOPODIACEAE GOOSEFOOT FAMILY Wahl [1970] | Coontail Coontail Spearscale | Lakes, ponds, sloughs, backwaters of creeks. More acidic water than the preceding species; known only from the Wisconsin Dells area. WIS. Roadsides and railroads, cultivated ground, rarely in woods, for example rocky stream banks. Weedy in dry prairies and open woods in a variety of soils, also rock outcrops, waste | ************************************** | ······ | | | * | | ♦ 1♦ 2♦ 5 |
| CERATOPHYLLACEAE HORNWORT FAMILY PR 33, 1946, Trans. WASAL Ceratophyllum demersum L. Ceratophyllum echinatum Gray CHENOPODIACEAE GOOSEFOOT FAMILY Wahl [1970] in Atriplex patula L. in Chenopodium album L. (incl. C. missouriense | Coontail Coontail Spearscale | Lakes, ponds, sloughs, backwaters of creeks. More acidic water than the preceding species; known only from the Wisconsin Dells area. WIS. Roadsides and railroads, cultivated ground, rarely in woods, for example rocky stream banks. Weedy in dry prairies and open woods in | * | ····· | | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | | |

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| | | | | | | | <u> </u> | | |
| HENOPODIACEAE GOOSEFOOT FAMILY (co | ntinued) | | | | | | | | |
| Chenopodium desiccatum A. Nels. (C. leptophyllum of authors, not Nutt.; incl. C. atrovirens, sensu Hartley 1966:76, not Rydb., and C. foggii Wahl) | | Represented by a 1953 collection from a sandy prairie (<i>C. atrovirens</i>), and a 1956 collection from a roadside (<i>C. foggii</i>). WIS. | ••••• | | ·········◆ | ••••• | | ♦ | 1 |
| ⁿ Chenopodium glaucum L. | Oak-leaved Goosefoot | A 1977 collection from open sandy ground in Prairie du Sac; adventive rather than naturalized? KL. | | | | | | * | 1 |
| Chenopodium simplex (Torr.) Raf. (Chenopodium gigantospermum Aellen) | Maple-leaved Goosefoot | Weedy in dry often limey places, for example dolomite bluffs, also along trails in rocky exposed sites, fencerows. | | * | | ····· | | * | 2 |
| Chenopodium standleyanum Aellen | | A 1959 collection from a limey bluff. WIS. | | | * | | | * | 1 |
| Cycloloma atriplicifolium (Spreng.) Coult. | Winged Pigweed | Dry open sandy ground, including dunes and shores; adventive from farther west? | * | | ♦ | * | | * | 2 |
| ⁿ Kochia scoparia (L.) Schrad. | Summer-cypress | Weedy in dry open disturbed places, especially where limey, for example along roads and railways. KL. | | | • • • • • • | * | | * | 1 |
| ⁿ Salsola kali L. var. tenuifolia Tausch | Russian-thistle | Lueders (1890:515) found a single specimen but no others, and this species was noted in the 1890s along railroad tracks in Baraboo, Wisconsin Dells, and Portage (Lange 1980b). Yet for some reason this weed did not prosper here, and now seems to be confined to the Spring Green area in dry open sandy ground. WIS, KL. | | | \$ | | | * | 1 |
| STACEAE OCKROSE FAMILY | | | | | | | | | |
| Helianthemum bicknellii Fern. | Frostweed | Dry usually sandy prairies and open woods, sandstone ledges. | * | | * | * | | * | 3 |
| Helianthemum canadense (L.) Michx. | Frostweed | Dry prairies and open woods, sandstone ledges; apparently in a greater variety of soils than the preceding species. | | ♦ | | ····· | | \$ | 3 |
| Hudsonia tomentosa Nutt. | Beach-heath | Shifting sand, for example dunes and blow-outs, also open sandstone ledges. | | | * | * | •••••• | * | 2 |
| Lechea intermedia Britt. | Pinweed | Dry sandy prairies, quartzite glades, open ledges, dry sandy woods. | * | * | | * | • | \$ | 3 |
| Lechea stricta Britt. | Pinweed | Dry sandy prairies and woods, sandstone ledges. | \$ | • | * | | • | \$ | 3 |
| Lechea tenuifolia Michx. | Pinweed | Dry sandy prairies and woods, sandstone ledges. | \$ | * | * | * | | \$ | 3 |
| LUSIACEAE (HYPERICAC T. JOHN'S-WORT FAMIL R 61, 1970, Trans. WASAL 5 | Y | | | | | | | | |
| Hypericum ascyron L. (H. pyramidatum Ait.) | Giant St. John's-wort | Low ground along drainages, sedge meadows, and alkaline meadows, loamy prairies, Alder thickets, roadside ditches. | * | ♦ | * | ······ | | \$ | 3 |

| | | | Locality and Abundance Code | | | | | | | le |
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| JSIACEAE (HYPERICA JOHN'S-WORT FAMI) | | | | | | | | | | |
| Hypericum boreale (Britt.) Bickn. | Northern St. John's-wort | Muddy or sandy shores, sedge meadows. WIS, KL. | | | | * | ⊹ | | • • • • • • • | |
| Hypericum gentianoides (L.) BSP. | Orange-grass | Exposed sandstone and quartzite outcrops, dry open sand, sandy meadows. | | • • • • • • • • | | * | * | | • • • • • • • | * 2 |
| Hypericum kalmianum L. | Kalm's St. John's-wort | Sandy meadows, low sandy woods, openings in pine-oak woods. | | | | | * | | | * 2 |
| Hypericum majus (Gray) Britt. | | Wet shores, open moist sand and sandstone ledges, sedge meadows, fens, Alder thickets. | | * | * | | * | | • • • • • • • • | |
| Hypericum mutilum L. | | Low meadows, especially open muddy places, sandy shores, creek and river margins. | •••• | * | * | * | * | | | |
| ⁿ Hypericum perforatum L. | Common St. John's-wort | Weedy fields, pastures, dry prairies, Red Cedar glades, roadsides; in a variety of soils. Usually in upland sites but occasionally in low ground; sometimes covering large areas. First collected in the study area in 1886 (Utech and Iltis 1970:330, map 6). | * | * | | * | ♦ | | | ♦ 5 |
| Hypericum punctatum Lam. | Dotted St. John's- wort | Marshy ground, Alder thickets, dry to damp fields. | * | * | ••••• | • • • • • • | * | | | \$ 2 |
| Triadenum fraseri (Spach) Gl. (Hypericum virginicum L. var. fraseri (Spach) Fern.) | Marsh St. John's-wort | Marshy creek borders, low sandy woods, sedge meadows, cat-tail marshes. | | | | | | | | ♦ 2 |
| NVOLVULUS FAMILY | ((incl. CUSCUTACEAE - | DODDER FAMILY) | | | | | | | | |
| 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus | | DODDER FAMILY) Weedy fields, low meadows, pastures, prairies, roadsides and railroads. | ····· | ····· | | ······ | | | | ······································ |
| 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus sepium L.) Calystegia spithamaea (L.) Pursh (Convolvulus | .30:21-25 Hedge Bindweed Low Bindweed | Weedy fields, low meadows, pastures, | \$ | ÷ | | * | ····· | | | |
| DNVOLVULUS FAMILY 26, 1937, Trans. WASAL Calystegia sepium (L.) | .30:21-25 Hedge Bindweed Low Bindweed | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. | | *** | | | * | | | |
| DNVOLVULUS FAMILY 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus sepium L.) Calystegia spithamaea (L.) Pursh (Convolvulus | .30:21-25 Hedge Bindweed Low Bindweed | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. Dry upland woods, oak savannas. Roadsides and railroads, weedy prairies. | ····· | * | | | | | | * : |
| 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus sepium L.) Calystegia spithamaea (L.) Pursh (Convolvulus spithamaeus L.) Convolvulus arvensis L. Cuscuta cephalanthi | .30:21-25 Hedge Bindweed Low Bindweed Field Bindweed | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. Dry upland woods, oak savannas. Roadsides and railroads, weedy prairies. The earliest herbarium record is 1892. Generally lowland sites, open or shady, on | * | * | | | * | | | * |
| DNVOLVULUS FAMILY 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus sepium L.) Calystegia spithamaea (L.) Pursh (Convolvulus spithamaeus L.) Convolvulus arvensis L. Cuscuta cephalanthi Engelm. | .30:21-25 Hedge Bindweed Low Bindweed Field Bindweed Dodder Dodder | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. Dry upland woods, oak savannas. Roadsides and railroads, weedy prairies. The earliest herbarium record is 1892. Generally lowland sites, open or shady, on a variety of herbs. Mainly lowlands, including sedge meadows, marshy creek bottoms, low sandy woods, but also drier often disturbed sites, | * | * | | | * * * * * * * * * * * * * * * * * * * | | | * |
| Cuscuta indecora Choisy Cuscuta polygonorum Engelm. | Journal Dodder Dodder Dodder Dodder | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. Dry upland woods, oak savannas. Roadsides and railroads, weedy prairies. The earliest herbarium record is 1892. Generally lowland sites, open or shady, on a variety of herbs. Mainly lowlands, including sedge meadows, marshy creek bottoms, low sandy woods, but also drier often disturbed sites, on a variety of herbs. Known only from the "Baraboo Bluffs" — | * | * | | | * * * * * * | | | * * * * * |
| 26, 1937, Trans. WASAL Calystegia sepium (L.) R. Br. (Convolvulus sepium L.) Calystegia spithamaea (L.) Pursh (Convolvulus spithamaeus L.) in Convolvulus arvensis L. Cuscuta cephalanthi Engelm. Cuscuta gronovii Willd. Cuscuta indecora Choisy Cuscuta polygonorum | Journal Dodder Dodder Dodder Dodder | Weedy fields, low meadows, pastures, prairies, roadsides and railroads. Dry upland woods, oak savannas. Roadsides and railroads, weedy prairies. The earliest herbarium record is 1892. Generally lowland sites, open or shady, on a variety of herbs. Mainly lowlands, including sedge meadows, marshy creek bottoms, low sandy woods, but also drier often disturbed sites, on a variety of herbs. Known only from the "Baraboo Bluffs" — no habitat data. WIS, MIL. Known only from Long Lake near Portage. This is one of the 5 native species known only from Caledonia Township (Table 13). | * | * | | | * * * * * * | | * | \$ 2\$ 3\$ 3 |

| | | | Locality and Abundance Code | | | | | | le | |
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| CORNACEAE DOGWOOD FAMILY PR 22, 1933, Trans. WASAL | 28:187-90 | | | | | | | | | |
| Cornus alternifolia L. f. | Pagoda Dogwood | Widely scattered in deciduous and mixed forests, especially moister oak woods, Sugar Maple woods, also Hemlock stands. | * | | | \$ | * | | | ♦ 3 |
| Cornus amomum Mill. (C. obliqua Raf.) | Silky Dogwood | Low meadows, sandy meadows, marshy bottoms, hardwood swamps, Tamarack swamps; some records represent plantings. | * | | | \$ | ····· | | | \$ 3 |
| Cornus canadensis L. | Bunchberry | Low sandy woods, boggy thickets, Tamarack swamps, sandstone outcrops in shaded ravines; mainly in the Central Plain. | * | | | \$ | * | • • • • • • | | ♦ 2 |
| Cornus racemosa Lam. | Gray Dogwood | Drier deciduous and mixed woods and their borders, low sandy woods; spreading into dry prairies, weedy fields, and sedge meadows. Often forming dense thickets. | * | * | | * | ····· | • • • • • • | | ♦ 5 |
| Cornus rugosa Lam. | Round-leaved Dogwood | Deciduous and mixed forests and Hemlock stands, especially their borders, also rock outcrops and boulder fields. | * | * | | * | | | | \$ 3 |
| Cornus stolonifera Michx. | Red-osier | Sedge meadows, fens and alkaline meadows, deciduous swamps, Tamarack swamps, Alder thickets, cat-tail marshes, wet sandy places, rock outcrops, and boulder fields. The nomenclature of this species follows Voss (1985:679). | * | * | | * | * | | ••••• | ♦ 4 |
| CRASSULACEAE ORPINE FAMILY | | | | | | | | | | |
| Penthorum sedoides L. | Ditch Stonecrop | Sedge meadows, marshy hollows such as glacial kettles, cat-tail marshes, Tamarack swamps, stream and lake borders. | \$ | | | * | * | ••••• | · · · · · · · · · | \$ 3 |
| ⁿ Sedum sarmentosum Bunge | Stonecrop | Escaping to open sandstone ledges, roadsides. WIS, MIL, KL. | | * | | | * | ••••• | | ♦ 1 |
| ⁿ Sedum spurium Bieb. | Stonecrop | Escaping to dry sandstone ledges. KL. | | | | | | | | ♦ 1 |
| ⁿ Sedum telephium L. (S. purpureum (L.) Schult.) | Stonecrop | Escaping to open sandstone and limey cliffs, roadsides, forest roads. | * | * | | * | * | | | ♦ 2 |
| CUCURBITACEAE GOURD FAMILY PR 3, 1929, Trans. WASAL 2 | 4:360-61 | | | | | | | | | |
| Echinocystis lobata (Michx.) T. & G. | Wild-cucumber | Low meadows, alluvial woods, swampy thickets, upland open deciduous woods, borders of woods, including fencerows and hedgerows, roadsides. | * | * | | * | * | | • • • • • • • | \$ 3 |
| Sicyos angulatus L. | Bur-cucumber | Edges of deciduous bottomlands. Listed by Lueders (1895:518). KL. | | | • • • • • | * | | | | ♦ 1 |
| ELAEAGNACEAE OLEASTER FAMILY PR 47, 1962, Trans. WASAL | 51.94 97 90 | | | | | | | | | |
| ⁿ Elaeagnus angustifolia L. | | Escaping to weedy fields. | | | | | | | | ♦ 1 |
| n Elaeagnus umbellata Thunb. | Autumn-olive | Escaping to weedy fields, dry oak woods, roadsides. Both species of <i>Elaeagnus</i> have been planted for food and cover for wildlife and for erosion control. KL. | * | . | | * | •\ | • • • • • • | | * 2 |

| | | | | Localit | y and | Abu | ndano | e Cod | |
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| AEAGNACEAE DLEASTER FAMILY (contin | nued) | | | | | | | | |
| ⁿ Shepherdia argentea (Pursh) Nutt. | Buffalo-berry | Noted at the Devil's Lake boat landing in 1985. KL. | | * | | • | | | * 1 |
| RICACEAE (incl. MONOT IEATH FAMILY PR 2, 1929, Trans. WASAL 2 | | LACEAE) | | | | | | | |
| Arctostaphylos uva-ursi (L.) Spreng. | Bearberry | Dry sandy prairies and sandy Jack Pine- oak woods, dry sandstone and quartzite exposures; in Devil's Lake State Park known only from one station on top of the east bluff. Elsewhere often in limey sites; the only known Baraboo Hills station is an outcrop of limey sandstone in the west end of the South Range. | ······ | ····································· | ····· | ······ | | | |
| Chamaedaphne calyculata (L.) Moench (Cassandra calyculata (L.) D. Don) | Leather-leaf | Sedge meadows, sphagnum bogs, Tamarack swamps, glacial kettles. | | | • • • • • • • • | . | | | |
| Chimaphila umbellata (L.) Bart. ssp. cisatlantica (Blake) Hultén | Pipsissewa | Dry sandy oak or oak-pine woods, sometimes damp sites where associated with <i>Lycopodium lucidulum</i> ; rarely dry limey woods. Local; widespread farther north. | ······· | | ÷ | | | | → 3 |
| Epigaea repens L. | Trailing Arbutus | Sandy oak and oak-pine woods, dry to moist, also low sandy woods; sometimes in openings. Often associated with Gaultheria procumbens. | ······ | ············· | ♦ | | | | ♦ 3 |
| Gaultheria procumbens L. | Teaberry | Sandy oak and oak-pine woods, dry to moist, also low sandy woods, boggy sphagnous thickets. Often associated with <i>Epigaea</i> . | ······ | ♦ | * | ······ | | | ♦ 3 |
| Gaylussacia baccata (Wang.) K. Koch | Black Huckleberry | Dry sandy woods and their borders and openings, sandstone ledges, low sandy woods, boggy sphagnous thickets, Tamarack swamps, sandy meadows, sedge meadows; often where swampy woods grade into sedge meadows. Mainly in the Central Plain. | * | * | * | * | | | |
| Ledum groenlandicum Oeder | Labrador-tea | Sandstone cliffs along the Wisconsin River at Wisconsin Dells and along the Baraboo River in LaValle Township, sandstone outcrops in cool wooded ravines, low sandy woods. | | | * | * | | | |
| Monotropa hypopithys L. | Pine-sap | Sandy to loamy deciduous and mixed forests. | * | * | | | | | |
| Monotropa uniflora L. | Indian-pipe | Sandy to loamy deciduous and mixed forests, low sandy woods, Tamarack swamps. | ······· ♦ | * | | ······ | • • • • • • | | |
| Orthilia secunda (L.) House (Pyrola secunda L.) | Shinleaf | Dry sandy woods. An 1884 specimen labelled "Baraboo" is of uncertain location. WIS. | | | | * | | | |
| Pyrola americana Sweet (P. rotundifolia L. var. americana (Sweet) Fern.) | Shinleaf | Sandy woods, dry to moist. | | ····································· | * | * | | | |

| | | | | Locality | and | Abu | ndano | e Coc | le |
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| ERICACEAE HEATH FAMILY (continued) |) | | | | | | | | |
| Pyrola elliptica Nutt. | Shinleaf | Dry to moist oak and mixed woods, low sandy woods. | * | * | * | * | | | ♦ 3 |
| Vaccinium angustifolium Ait. | Early Blueberry | Dry sandy woods and associated glades, sandstone ledges, sandy meadows, sedge meadows, boggy sphagnous thickets, low sandy woods. | ♦ | * | * | * | | | ♦ 4 |
| Vaccinium macrocarpon Ait. | American Cranberry | Associated with sphagnum moss in Tamarack swamps and sedge meadows; apparently confined to a single station in Delton Township. A several acre "natural cranberry marsh," apparently of this species, was formerly located in the Baraboo Valley at North Freedom (Canfield 1861-1901:61, Templin n.d.:33, Toole 1920: 104). WIS, MIL, KL. | | | | \$ | | | ♦ 1 |
| Vaccinium myrtilloides Michx. | Velvet-leaved Blueberry | Sandy oak and mixed woods, quartzite boulder fields and dry sandstone ledges, Tamarack swamps, low sandy woods; common in northern Wisconsin, where apparently more in lowland sites than <i>V. angustifolium</i> . | * | * | → | * | | | ♦ 2 |
| Vaccinium oxycoccos L. | Cranberry | Confined to the Leather-leaf bog in Fairfield Township (see Plant Communities). KL. | | | | * | | • • • • • • • • | \$ 1 |
| EUPHORBIACEAE SPURGE FAMILY PR 69, 1987, Trans. WASAL 7 | 75:97-129 | | | | | | | | |
| Acalypha virginica L. var. rhomboidea (Raf.) Cooperrider | Three-seeded Mercury | Generally in disturbed places, dry to moist, for example weedy woods, roadsides, pastures, waste places in cities, also marshy ground, river bottoms. | * | * | * | * | | | \$ 3 |
| (A. rhomboidea Raf.) Chamaesyce geyeri (Engelm.) Small (Euphorbia geyeri Engelm.) | Geyer's Spurge | Dry open sandy places. A western species reaching its easternmost range limits mainly in western Wisconsin (Richardson et al. 1987:116); in the study area ranging eastward to T9N, R6E, Section 6. WIS. | | | . | ······ | | | † 1 |
| Chamaesyce glyptosperma (Engelm.) Small (Euphorbia glyptosperma Engelm.) | | Dry open weedy places; known only from the Spring Green area. KL. | | | * | | • • • • • • • | | † 1 |
| Chamaesyce maculata (L.) Small (Euphorbia maculata L.; E. supina Raf.) | Milk-purslane | Weedy in dry open places in a variety of soils, including sandy prairies, quartzite Red Cedar glades, railroad ballast, roadsides, also pioneering in the crevices of driveways, sidewalks. | * | * | * | * | | | * 3 |
| Chamaesyce nutans (Lag.) Small (Euphorbia maculata L. sensu Wheeler and others; E. nutans Lag.; | Eyebane | Weedy in lawns, gravel pits, disturbed sand, railroads, roadsides. | | * | * | * | | | ⇒ 3 |

| | | | | Loc | ality | and . | Abu | ndanc | e Coc | le |
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| PHORBIACEAE PURGE FAMILY (continu | ed) | | | | | | | | | |
| Chamaesyce vermiculata (Raf.) House (Euphorbia hirsuta (Torr.) Wieg.; E. rafinesquii Greene) | Hairy Spurge | Open disturbed places; known only from the Sauk City area. KL. | | •••••• | | | | | • • • • • • • • | |
| Croton glandulosus L. | Croton | Dry open sandy places, often where disturbed, for example dunes and blowouts, also sandy cultivated fields. | | | | . | \$ | | ••••• | |
| Euphorbia corollata L. | Flowering Spurge | Dry prairies in a variety of soils, quartzite and rhyolite glades, open sandstone ledges, dry open woods, sandy meadows, weedy fields, railroads, roadsides. | * | . | | | * | | | |
| ⁿ Euphorbia cyparissias L. | Cypress Spurge | Persisting at rural cemeteries and abandoned rural homesites and spreading to weedy fields, roadsides, railroads. The earliest collection is from 1903 (Richardson et al. 1987:121, map 18). | > | | ••••• | • • • • • • | | | | |
| ⁿ Euphorbia marginata Pursh | Snow-on-the-mountain | Escaping to waste places, for example roadsides, landfills; known only from Spring Green Township. WIS. | | | ••••• | | ••••• | | | ↑ 1 |
| n Poinsettia cyathophora (Murr.) Kl. & Gke. (Euphorbia heterophylla of most American authors) | Painted-leaf | Relatively open limey bluffs and sandy lowlands in the Wisconsin River valley, also roadsides. Especially numerous at Twin Bluffs in T9N, R5E, Section 35; spreading from a planting in the nearby cemetery? Listed in Kartesz (1994, 1:265) as Euphorbia heterophylla L. WIS, KL. | | | | ··········◆ | | | | → 1 |
| Poinsettia dentata (Michx.) Kl. & Gke. (Euphorbia dentata Michx.) | Toothed Spurge | Bluff prairies, railroads; adventive from the Great Plains? Listed in Kartesz (1994, 1:265) as Euphorbia dentata Michx. KL. | | ••••• | | * | ····· | ••••• | | † 1 |
| BACEAE (LEGUMINOS) EGUME FAMILY Issett 1961 | AE) | | | | | | | | | |
| Amorpha canescens Pursh | Leadplant | Dry prairies and adjoining open woods in a variety of soils. | | | | ······ | ····· | | • • • • • • • • | |
| Amorpha fruticosa L. | False-indigo | Shorelines and alluvial thickets along the Wisconsin River at least as far upriver as the Pine Island Wildlife Area in Caledonia Township, also along the railroad track in Devil's Lake State Park. | | ·········· | | * | | | | |
| Amphicarpa bracteata (L.) Fern. | Hog-peanut | Dry to damp deciduous and mixed woods, deciduous swamps, Hemlock stands; mainly oak forests. | * | * | | ······ | ······ | | | |
| Apios americana Medic. | Groundnut | Alluvial woods, low meadows, sandy meadows, Alder thickets. | | \$ | | * | | | | * 2 |
| Astragalus canadensis L. | Milk-vetch | Local on wooded dolomite bluffs; often in disturbed sites, for example degraded limey prairies, weedy fields, along trails and roads. | | • | | | | • | | ♦ 2 |

| | | | | Locality | and | Abu | ndanc | e Cod | le |
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| ABACEAE (LEGUMINOS LEGUME FAMILY (continu | · | | | | | | | | |
| Baptisia alba (L.) Vent. var. macrophylla (Larisey) Isely (B. lactea (Raf.) Thieret; B.leucantha T. & G.) | White Baptisia | Loamy prairies, sandy meadows, dry open sandy slopes, quartzite glades; mainly in the Central Plain. | | * | | * | | | ⇒ 2 |
| Baptisia bracteata Ell. var. leucophaea (Nutt.) Kartesz & Gandhi (B. leucophaea Nutt.) | Creamy Baptisia | Mainly a species of mesic prairie, now nearly an extinct community in the study area (see Plant Communities); occurs today in dry prairies in a variety of soils, quartzite glades, and dry sandy open oak woods. | * | * | | * | | | \$ 3 |
| ⁿ Cercis canadensis L. | Redbud | Spreading from plantings. | | ····································· | | | | | ↑ 1 |
| Chamaecrista fasciculata (Michx.) Greene (Cassia fasciculata Michx.) | Partridge-pea | Dry open weedy places. Listed for the Baraboo Hills on the basis of an undated specimen labelled "Baraboo." | . | | | | | | * 2 |
| ⁿ Coronilla varia L. | Crown-vetch | Spreading from plantings along roads for erosion control. Hartley (1966:107) referred to this species as a "rare weed." | * | | * | | | •••• | → 2 |
| ^a Crotalaria sagittalis L. | Rattlepod | Collected "on the railroad tracks" at Spring Green in 1930 (Fassett 1961:31). A southern species; presumably adventive. WIS. | | | * | | | | ↑ 1 |
| Dalea candida Willd. (Petalostemon candidum (Willd.) Michx.) | White Prairie-clover | Dry prairies in a variety of soils, rhyolite glades. Not on quartzite; in Devil's Lake State Park known only from a dry prairie on sandstone. | ·········◆ | * | * | * | | | \$ 2 |
| Dalea purpurea Vent. (Petalostemon purpureum (Vent.) Rydb.) | Purple Prairie-clover | Dry prairies in a variety of soils. Not on rhyolite or quartzite; in Devil's Lake State Park known only from a dry prairie on sandstone. | * | * | * | * | | | \$ 3 |
| Desmodium canadense (L.) DC. | Tick-trefoil | Dry prairies, dry oak woods including their borders, dry roadsides. | * | * | * | * | | | \$ 3 |
| Desmodium cuspidatum (Willd.) Loud. (D. bracteosum (Michx.) DC.) | Tick-trefoil | Dry to mesic deciduous woods, mainly oak woods. | ♦ | * | | | | • • • • • • • | * 2 |
| Desmodium glutinosum (Willd.) Wood (D. acuminatum (Michx.) DC.) | Tick-trefoil | Dry to mesic deciduous and mixed woods, mainly oak woods. | | * | | * | | | ♦ 4 |
| Desmodium illinoense Gray | Illinois Tick-Trefoil | Dry prairies in a variety of soils. Not on rhyolite or quartzite; in Devil's Lake State Park known only from a dry prairie on sandstone. | * | * | * | | | | \$ 2 |
| Desmodium nudiflorum (L.) DC. | Tick-trefoil | Dry to mesic deciduous and mixed woods, mainly drier oak woods, also low sandy woods. | * | * | * | * | | | ♦ 3 |
| Desmodium paniculatum (L.) DC. (incl. D. dillenii Darl. & D. glabellum (Michx.) DC.) | Tick-trefoil | Dry oak woods, including their borders and openings. | * | * | | | | | ♦ 2 |
| Gleditsia triacanthos L. | Honey Locust | Noted in several places; adventive or spreading from plantings? | * | * | * | * | | | ♦ 2 |

| | | | | Loc | cality | and | Abuı | ndanc | e Coc | le | |
|---|---------------------|--|----------|-------------|------------|----------|----------|------------|---|--|----|
| | | | вн | DLSP | DL Only | WU | CP | WR Only | C Only | Sk Co | AC |
| SACEAE (LEGUMINOS. GUME FAMILY (continu | | | | | | | | | | | |
| ⁿ Lathyrus latifolius L. | Perennial Pea | An ornamental rarely escaping from cultivation. WIS. | | | | | | | | * | 1 |
| Lathyrus ochroleucus Hook. | Vetchling | Mainly drier oak woods, including associated glades, also relatively moist woods, loamy prairies. | | > | ••••• | ······ | | | • • • • • • • | . | 4 |
| Lathyrus palustris L. | Vetchling | Sedge meadows, alkaline meadows and fens, loamy prairies, cat-tail marshes, Alder thickets. | * | * | | | . | | | | 3 |
| Lathyrus venosus Willd. | Vetchling | Drier oak woods, prairies. | * | | | | . | | • • • • • • • | * | 4 |
| espedeza capitata Michx. | Bush-clover | Dry praries in a variety of soils, quartzite and rhyolite glades, sandy meadows, dry sandy roadsides, dry open woods. | * | * | | * | * | | | \$ | 4 |
| E Lespedeza leptostachya Engelm. | Bush-clover | Found in the 1970s in 2 dry sandy prairies in Sauk County, one near Prairie du Sac and one near Spring Green. Only a single plant was noted at the latter station, but in 1986 M. A. Martin found approximately 475 plants at the former station. A third station was discovered in 1993, when A. Clark found a single stalk in a several-acre patch of prairie sod in the Badger Army Ammunition Plant (Figure 44). The status of this species in Wisconsin was reviewed by Alverson (1981). Listed as threatened under the U.S. Endangered Species Act. WIS, KL. | | | | | ······ | | | ······ ♦ | 1 |
| SC Lespedeza violacea L.) Pers. | Bush-clover | Dry oak woods, including prairie openings, in a variety of soils, also quartzite glades. Known from approximately 8 stations; populations at a given station generally number from 20 to 200+ plants. | * | > | | ······ | | | • | . | 2 |
| Γ Lespedeza virginica (L.) Britt. | Bush-clover | Quartzite glades and dry oak woods on quartzite and quartzite conglomerate. First collected in Wisconsin in 1893 on the west bluff in Devil's Lake State Park. Also on the east (Figure 47) and south bluffs in the park, and in approximately another half-dozen stations in the Baraboo Hills. In Wisconsin known also from Observatory Hill, a rhyolite monadnock in Marquette County approximately 30 miles northeast of Baraboo; the University of Wisconsin has specimens collected in 1951 and 1955, but A. Clark could not find it in 1990. | * | ÷ | | | | | | ************************************** | 2 |
| ⁿ Lotus corniculatus L. | Bird's-foot Trefoil | Planted as a forage crop and also for erosion control and spreading along roadways and in other disturbed sites; recently established (Hartley 1966:109). | ····· | | | ····· | * | | | | 5 |
| Lupinus perennis L. | Lupine | Dry sandy prairies and dry sandy woods, dry sandy roadsides. | | | | ······ | | | | * | 2 |
| ⁿ Medicago lupulina L. | Black Medick | Dry open disturbed places. Undoubtedly more abundant than indicated. | | . | | | | | | * | 3 |
| ⁿ Medicago sativa L. (incl. M. falcata L. and hybrids) | Alfalfa | Escaping to weedy fields, dry prairies, roadsides, waste places. | * | * | | * | * | | | \$ | 4 |

| Locality an | d Abu | ndance Coc | le |
|-----------------|-------------|------------|-------|
| DL | | WR C | Sk |
| BH DLSP Only WI | J CP | Only Only | Co AC |
| | | | |

| BACEAE (LEGUMINOSA GUME FAMILY (continue | | | | | | | |
|---|----------------------|---|----------|-----------|-----------|----------|-----------|
| ⁿ Melilotus alba Medic. | White Sweet-clover | Dry disturbed places, including weedy fields, roadsides, railroads, weedy woods; already abundant along roadsides in the Sauk City-Prairie du Sac area by 1900 (Lange 1980b). This taxon is synonymized with <i>M. officinalis</i> in Kartesz (1994:1:300). | ····÷ | ÷ | ♦ | | ф |
| ⁿ Melilotus officinalis (L.) Pallas | Yellow Sweet-clover | Dry disturbed places, including weedy fields, roadsides, railroads, weedy woods; already abundant along roadsides in the Sauk City-Prairie du Sac area by 1900 (Lange 1980b). Both sweet-clovers have been planted for forage, honey production, and, since they fix nitrogen, as soil enhancers. | ······ | | * | * | * |
| SC Pediomelum esculentum (Pursh) Rydb. (Psoralea esculenta Pursh) | Pomme de Prairie | Found in a dry limey prairie near Spring Green in 1970. A western species here reaching its easternmost range limits (Fassett 1961:46, Hartley 1966:110, Nee 1970:22). KL. | | | * | | * |
| ⁿ Robinia pseudoacacia L. | Black Locust | Spreading from plantings for conservation projects and windbreaks, especially in dry sandy soil. The original range of this species is uncertain because of widespread human dissemination (Isely and Peabody 1984:196). | * | * | * | * | * |
| Strophostyles leiosperma (T. & G.) Piper | | Collected in a dry, sandy, weedy field in Mirror Lake State park in 1972 and 1974; still there in 1996. KL. | | | | * | \$ |
| Tephrosia virginiana (L.) Pers. | Goat's-rue | Dry sandy prairies and adjoining dry sandy woods. | * | | | * | * |
| ⁿ Trifolium arvense L. | Rabbit-foot Clover | Dry sandy roadsides, gravelly trailsides. Records date from 1980 and 1993. KL. | | \$ | | * | * |
| ⁿ <i>Trifolium aureum</i> Pollich (<i>T. agrarium</i> L. of American authors) | Yellow or Hop Clover | Weedy woods, especially roadways and other disturbances, also degraded dry open places. | * | | | * | |
| n Trifolium campestre Schreb. (T. procumbens L. of American authors) | Low Hop Clover | Disturbed places, including roadsides, pastures, plantations. | * | | * | | * |
| ⁿ Trifolium hybridum L. | Alslike Clover | Disturbed ground, including weedy fields, pastures, roadsides. | * | ♦ | \$ | ♦ | \$ |
| ⁿ Trifolium pratense L. | Red Clover | Disturbed ground, including weedy fields, pastures, cultivated land, weedy prairies, roadsides, edges of woods, in woods along trails. | * | * | * | * | \$ |
| ⁿ Trifolium repens L. | White Clover | Disturbed ground, including weedy fields, pastures, roadsides, along wooded trails. | * | ♦ | | ♦ | * |
| Vicia americana Willd. | American Vetch | Grassy areas, including prairies, also wooded sites, especially their borders. | * | | * | * | * |
| Vicia caroliniana Walt. | Wood Vetch | Drier deciduous woods and associated prairies. | ♦ | ♦ | * | ♦ | * |
| ⁿ Vicia cracca L. | Tufted Vetch | Weedy areas, for example roadsides. Listed by Lueders (1895:517). | | | | ♦ | * |

| | | | | Locality | and . | Abur | idanc | e Cod | e |
|---|-----------------|---|----------|--|-------------------|-------------|------------|---------------|-------------|
| ····· | | · | ВН | DL DLSP Only | WU | CP | WR Only | C Only | Sk Co AC |
| FABACEAE (LEGUMINOS LEGUME FAMILY (contin | · · | | | | | | | | |
| ⁿ <i>Vicia sativa</i> L. (incl. <i>V. angustifolia</i> Reichard) | Common Vetch | Disturbed ground, including roadsides, pastures. | ••••• | | | * | | | * 1 |
| ⁿ <i>Vicia villosa</i> Roth | Hairy Vetch | Disturbed ground, including roadsides, railroads, weedy fields. Undoubtedly more abundant than indicated. | ······ | * | * | * | | | |
| FAGACEAE BEECH FAMILY PR 13, 1931, Trans. WASAI | . 26:275-79 | | | | | | | | |
| ^a Castanea dentata (Marsh.) Borkh. | Chestnut | Progeny (saplings) from plantings in a school forest noted in 1991. KL. | ······ | ••••• | | • • • • • • | ••••• | ••••• | * 1 |
| Quercus alba L. | White Oak | With other oaks, mainly red, also mixed hardwood stands and Jack Pine-oak woods, mainly upland sites but also lowland, for example low sandy woods, boggy thickets. | ····÷ | * | * | * | | | |
| Quercus bicolor Willd. | Swamp White Oak | Floodplain forests and swamps along the Wisconsin River and up the Baraboo River to at least Section 20 in T12N, R9E. | •••• | | • ♦ | * | ······· | ••••• | * 2 |
| Quercus ellipsoidalis E.J. Hill | Hill's Oak | Dry sandy plains and sandstone hills; essentially a tree of the forest-prairie border of midwestern North America (Maycock et al. 1980:283). Regarded as a small-fruited form of Scarlet Oak (<i>Q. coccinea</i> Muenchh.) by Overlease (1977). May be more widespread and common than indicated. WIS. | * | | ♦ | ••••• | | | ↑ 1 |
| Quercus macrocarpa Michx. | Bur oak | Dry sandy or limey prairies and borders, open dry deciduous woods, also wooded bottomlands. | * | | ········ ♦ | ····· | | | * 3 |
| Quercus × paleolithicola Trel. [Q. ellipsoidalis × velutina] | | Specimens so identified by R. Jensen (in letter to K.I. Lange, 18 March 1991). WIS. | * | ••••• | | | | | ↑ 1 |
| Quercus rubra L. (Q. borealis Michx. f.) | Red Oak | Mesic woods, also dry oak woods and Jack Pine forests, Hemlock stands, mainly upland sites but also lowland, for example low sandy woods, boggy thickets, deciduous swamps. | * | * | | ···· | | | |
| Quercus velutina Lam. | Black Oak | Dry sandy and limey woods, with other oaks and Shaggybark Hickory, Jack Pine. | | * | ·········· | ······ | | | |
| GENTIANACEAE GENTIAN FAMILY PR 53, 1965, Trans. WASAI | L 54:295-329 | | | | | | | | |
| SC Bartonia virginica (L.) BSP. | Screw-stem | Low sandy woods, boggy thickets, Tamarack swamps, sandy meadows. | | •••••• | | | | • • • • • • • | |
| T Gentiana alba Nutt. (G. flavida Gray) | White Gentian | Upland grassy (limey?) meadows within deciduous forest, for example Steinke Basin in Devil's Lake State Park (cover photo), 18 stalks at one station and 24 at another in 1992, also limey hillsides and wooded roadsides. | . | ************************************** | | | | | \$ 2 |

| | | | Locality and Abundance Code | | | | | | | le | |
|--|-----------------|--|-----------------------------|---------------------|-------------|------------------|-------------|---------------|---------------|-----------|---|
| | | | вн | DLSF | DL Only | WU | CP | WR Only | C Only | Sk Co | |
| ENTIANACEAE | d) | | | | | | | | | | |
| GENTIAN FAMILY (contini Gentiana andrewsii Griseb. | Bottle Gentian | Sedge meadows, alkaline meadows and fens, loamy prairies, sandy meadows, marshy stream bottoms, Alder thickets. | | ·········· ♦ | • • • • • • | ·········· ** | | | | * | 4 |
| Gentiana puberulenta (G. puberula of authors, not Michx.) | Prairie Gentian | Dry sandy and limey prairies. | * | | | . | ····· | | | ф | 2 |
| Gentianella quinquefolia (L.) Small ssp. occidentalis (Gray) Gillett | Stiff Gentian | Open woods and dry prairies on dolomite or limey sandstone, shaded railroad embankments. | * | * | | * | | | | ф | 3 |
| Gentianopsis crinita (Froel.) Ma | Fringed Gentian | Marshy creek bottoms where limey, sedge meadows and low shrubby thickets in limey areas, shaded railroad embankments. | | * | | > | | | | \$ | 2 |
| SC Gentianopsis procera (Holm) Ma | Fringed Gentian | Known only from an alkaline meadow in Merrimac Township. KL. | ••••• | | | | | | | \$ | 1 |
| GERANIACEAE GERANIUM FAMILY PR 21, 1933, Trans. WASAL | 28:175-76 | | | | | | | | | | |
| ⁿ Erodium cicutarium (L.) L'Hèr. | Storksbill | A lawn weed at Devil's Lake State Park, where collected in 1984. KL. | | * | | • • • • • • • | • • • • • • | | | \$ | 1 |
| Geranium bicknellii Britt. | | Dry open sandy or gravelly ground, quartzite glades, also (an 1891 record) "cleared land." | ♦ | . | ••••• | | | • • • • • • • | | \$ | 2 |
| Geranium carolinianum L. | | Dry rocky prairies in a variety of soils, rhyolite glades, dry rocky woods. | * | | ••••• | | | • • • • • • • | • • • • • • • | \$ | 2 |
| Geranium maculatum L. | Wild Geranium | Deciduous forest, dry to moist, also Jack Pine-oak woods, Hemlock stands. | * | * | | * | * | | • • • • • • • | * | 4 |
| HALORAGIDACEAE WATER-MILFOIL FAMILY | | | | | | | | | | | |
| PR 10, 1930, Trans. WASAL Myriophyllum spicatum L. (incl. M. exalbescens Fern.) | Water-milfoil | Devil's Lake, where first collected in 1974, and the Wisconsin River. Listed by Lueders (1895:518). Likely to be found in other aquatic systems, as it is readily spread by people. As herein treated, this taxon includes both native (<i>M. exalbescens</i>) and naturalized (<i>M. spicatum</i>) material. There has been disagreement over the distinctness of the American and Eurasian forms; see Voss (1985:638-39). Nichols (1984) separates them phytochemically and morphologically. | | * | * | * | ····· | | | * | 2 |
| HAMAMELIDACEAE WITCH-HAZEL FAMILY | | | | | | | | | | | |
| Hamamelis virginiana L. | Witch-hazel | Dry deciduous woods, also cooler, moister woods, for example north-facing slopes, ravines. | * | * | | * | * | | | * | 3 |

| | | | _ | Loc | | and . | Abur | ndanc | e Coc | le | |
|--|---------------------|---|----------|---------------|------------|----------|-------------|-----------------|-----------------|-----------|-------|
| | | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co | |
| HIPPOCASTANACEAE BUCKEYE FAMILY | | | | | | | | | | | |
| ^a Aesculus glabra Willd. | Ohio Buckeye | Progeny (saplings) from plantings noted in an alluvial thicket in 1991. AC. | | • • • • • • • | | | • • • • • • | • • • • • • • | | | 1 |
| HYDROPHYLLACEAE WATERLEAF FAMILY PR 58, 1966, Trans. WASAL | 55:255-59 | | | | | | | | | | |
| Hydrophyllum virginianum L. | Waterleaf | Moister deciduous woods, alluvial forests, Hemlock stands; may become weedy with disturbance. | * | * | | * | * | | • • • • • • • • | * | 4 |
| UGLANDACEAE WALNUT FAMILY PR 17, 1932, Trans. WASAL | 27:231-34 | | | | | | | | | | |
| Carya cordiformis (Wang.) K. Koch | Bitternut Hickory | Moist woods, including deciduous swamps, also dry woods, sometimes grassy fields next to wooded areas. | * | * | | * | * | • • • • • • • • | | * | 4 |
| Carya ovata (Mill.) K. Koch | Shaggybark Hickory | Mainly dry woods, with oaks, sometimes in nearly monotypic stands, also damp woods, including alluvial forests. | | | | * | * | | | * | 5 |
| Juglans cinerea L. | Butternut | Dry upland woods, ravines, alluvial forests. | * | * | | * | | | | \$ | 4 |
| Juglans nigra L. | Black Walnut | Upland woods where sometimes in relatively open sites, also lowland forests. Both species of <i>Juglans</i> seem to be most prevalent in limey soil. | * | ÷ | | * | * | | | * | 3 |
| AMIACEAE (LABIATAE) MINT FAMILY PR 41, 1957, Trans. WASAL | 46:115-40 | | | | | | | | | | |
| T Agastache nepetoides (L.) Kuntze | Yellow Giant-hyssop | A station with 25 stalks discovered in oak woods in the eastern end of the North Range of the Baraboo Hills in 1992; a species of oak woodland (see Plant Communities). This is one of the 5 native species known only from Caledonia Township (Table 13). WIS, AC. | ÷ | | | •••• | | • | * | | 1 |
| Agastache scrophulariifolia (Willd.) Kuntze | Purple Giant-hyssop | Streamsides and pond margins in wooded ravines, low meadows where marshy and semi-shaded, wet edges of roads and railroads in wooded areas. | * | * | | * | | • • • • • • • | ••••• | * | 2 |
| ⁿ Ajuga genevensis L. | Bugleweed | A 1979 collection from a dry roadside. KL. | | | | | • • • • • • | | | ····· | 1 |
| Blephilia hirsuta (Pursh) Benth. | Wood Mint | Deciduous, usually moist woods, especially their borders and openings. | | | | * | ••••• | | | * | 2 |
| E Collinsonia canadensis L. | Richweed | Only 2 Wisconsin records: "valley of the Wisconsin River near Baraboo," Sauk County, 1865, and Walworth County, 1940 (Koeppen 1957:139). The notation on the Sauk County specimen suggests a floodplain forest, although an upland site is also possible. WIS. | | | | | * | | | ····· | 0 |

| | Locality and Abundance Code | | | | | | | | | | |
|----|-----------------------------|----|----|------|------|----|----|--|--|--|--|
| | DL | | | WR | C | Sk | | | | | |
| BH | DLSP Only | WU | CP | Only | Only | Co | AC | | | | |

| ⁿ Elsholtzia ciliata | | In Wisconsin known only from Devil's | | \$ | | | ♦ |
|---|--------------------------|--|----------|-----------|----------|--|-----------|
| (Thunb.) Hylander | | Lake State Park, where first collected in 1946 at the northeastern corner of the lake near cottages, since removed, and the railroad. Within 20 years it had spread to other north shore localities, and by 1968 it was found at the south end of the lake | | | | | |
| | | on a pile of chips and sawdust from cut elm trees. UW-Oshkosh, WIS, KL. | | | | | |
| ⁿ Galeopsis tetrahit L. | Hemp-nettle | Deciduous woods, especially along trails and roadways in moister sites. Listed by Lueders (1895:521). | * | | | * | |
| ⁿ Glechoma hederacea L. | Ground-ivy | Weedy in lawns, especially where shaded, also moist woods, alluvial forests. | * | * | * | * | |
| Hedeoma hispida Pursh | Rough Pennyroyal | Dry prairies, often where rocky, in a variety of soils, quartzite and rhyolite glades, also open sandy ground. | * | | * | * | * |
| Hedeoma pulegioides L.) Pers. | American Pennyroyal | Dry rocky places; may be weedy. A Milwaukee Public Museum specimen, dated 1860, from "Sauk City, Sauk Co.," is of uncertain location; it could be either Central Plain or Western Upland. | * | ♦ | | | * |
| Leonurus cardiaca L. | Motherwort | Weedy woods, waste places, hedgerows, usually where shaded. | * | * | * | * | |
| Lycopus americanus Bart. | Water-horehound | Low meadows, especially sedge meadows, also alkaline meadows and fens, loamy prairies, cat-tail marshes, sandy meadows, low thickets, low sandy woods, marshy openings in deciduous woods. | * | * | | * | * |
| Lycopus uniflorus Michx. | Water-horehound | Sedge meadows, alkaline meadows and fens, low thickets, low sandy woods, Tamarack swamps, marshy sloughs; often in wetter places than <i>L. americanus</i> . | ÷ | * | * | ************************************** | ♦ |
| Lycopus virginicus L. | Water-horehound | Floodplain forests. | | | * | * * | \$ |
| Mentha arvensis L. | Field Mint | Sedge meadows, alkaline meadows and fens, Alder thickets, marshy depressions such as kettles. | * | ♦ | * | * | |
| ⁿ Mentha × gracilis Sole (pro sp.) (M. cardiaca (S.F. Gray) Baker) | | Marshy creek margins (Hartley 1962:635, 126; 1966:105); a hybrid of <i>M. arvensis</i> and <i>M. spicata</i> . | * | | | | |
| ⁿ Mentha spicata L. | Spearmint | Escaping to marshy creek banks, ditches. The source of spearmint oil. | | ♦ | * | ♦ | * |
| n Monarda didyma L. | Oswego-tea, Beebalm | A 1946 collection from Devil's Lake State Park. WIS. | | * | | | * |
| Monarda fistulosa L. | Wild Bergamot | Dry often disturbed areas in a variety of soils; most characteristic of weedy fields, also pastures, prairies, open woods and their borders, roadsides. | * | ♦ | * | * | * |
| Monarda punctata L. var. villicaulis (Pennell) Palmer & Steyermark | Spotted Wild Bergamot | Dry sandy prairies and adjoining Jack Pine-oak woods, open sandstone ledges, dry limey prairies. | * | | * | \$ | |

| | | | | Loca | lity | and . | Abuı | ndanc | e Cod | le |
|---|-----------------------|--|------------------|--|------------|----------|----------|------------|-------------|-------------|
| | | | вн | DLSP C | DL Inly | WU | СР | WR Only | C Only | Sk Co AC |
| AMIACEAE (LABIATAE) MINT FAMILY (continued) | | | | | | | | | | |
| ⁿ Nepeta cataria L. | Catnip | Dry disturbed ground, including waste places, pastures, open woods and their borders, roadsides, rock outcrops; a common weed in Prairie du Sac by 1882 (Lange 1980b). | * | ÷ | •••• | ····· | * | | | |
| Physostegia virginiana (L.) Benth. | False Dragonhead | Lake shores, river banks, marshy sloughs, alluvial woods, Tamarack swamps, low meadows. | ····· | | | ······ | * | | | ⋄ 3 |
| Prunella vulgaris L. | Self-heal, Heal-all | Dry to damp woods, marshy openings in deciduous woods, Alder thickets, sandy meadows, low sandy woods, open cliffs. Native in Eurasia and apparently also in North America; varieties or subspecies of this plastic taxon are not herein recognized (after Voss 1996:168). | * | ************************************** | | | ···· | | | |
| n Pycnanthemum flexuosum (Walt.) BSP. | Mountain Mint | A roadside colony noted in Devil's Lake State Park in 1988. KL. | | | • • • • • | | ••••• | | ••••• | * 1 |
| Pycnanthemum virginianum (L.) B.L. Robins. & Fern. | Mountain Mint | Alkaline meadows and fens, sedge meadows and Alder thickets, loamy prairies, sandy meadows; sometimes in drier sites. In Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | ······· ♦ | ····· | •••• | ♦ | * | | | ♦ 3 |
| ^a Salvia reflexa Hornem. | Sage | Known only from a "grazed creek bed" and a nearby site which at the time of collection was a campground; native west of the Great Lakes. WIS. | | | •••• | | ••••• | | • • • • • • | ⇒ 1 |
| Scutellaria galericulata L. (S. epilobiifolia A. Hamilton) | Common Skullcap | Alkaline meadows and fens, sedge meadows, loamy prairies, Alder thickets, Tamarack swamps, low sphagnous ground, Leather-leaf bogs. In Devil's Lake State Park known only from the wetland complex between the east and south bluffs. Mainly in the Central Plain. | | ············ | | ♦ | * | | | |
| Scutellaria lateriflora L. | Mad-dog Skullcap | Marshy shores, sedge meadows, fens, boggy thickets, floodplain forests, marshy openings in deciduous woods. | ····· | | | | | | ••••• | \$ 3 |
| Scutellaria leonardii Epling | Small Skullcap | Dry prairies in a variety of soils, but mainly limey, also quartzite and rhyolite glades, dry sandy woods. Regarded as a variety of <i>S. parvula</i> Michx. by Kartesz (1994, 1:353). | * | ÷ | | * | * | | | |
| Scutellaria ovata Hill ssp. ovata (S. ovata var. versicolor (Nutt.) Fern.) | Heart-leaved Skullcap | In the Western Upland on dolomite and limey sandstone in oak woods, in the Baraboo Hills and Devil's Lake State Park on quartzite, quartzite conglomerate, and Galesville sandstone in oak woods and Sugar Maple forests. | | * | | * | | | | |
| Stachys hispida Pursh | Hedge-nettle | Low meadows, alkaline meadows, loamy prairies, Alder thickets, sandy meadows. Synonymized with <i>S. tenuifolia</i> in Kartesz (1994, 1:354); also treated as a variety of <i>S. tenuifolia</i> by some authors. | * | * | • • • • • | ♦ | ······ | | | |

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| Hedge-nettle | Low meadows, alkaline meadows, sedge meadows, loamy prairies, Leather-leaf bogs, marshy kettles, cat-tail marshes, floodplain forests, Tamarack swamps. | * | . | | | * | • • • • • • • | | |
| Hedge-nettle | Low meadows and floodplain forests along the Wisconsin River and up the Baraboo River for approximately a mile. | | | | * | ♦ | * | | * 2 |
| Germander, Wood-sage | Sedge meadows, alkaline meadows, sandy meadows, floodplain forests, marshy openings in deciduous woods, Tamarack swamps, Alder thickets, also dry weedy oak woods and dry weedy fields. | * | * | ••••• | * | * | | | ♦ 4 |
| Fälse Pennyroyal | Known only from an 1865 collection from the Upper Narrows of the Baraboo Hills and a 1992 collection from a dry rocky prairie on glacial till in Devil's Lake State Park. WIS, KL. | * | > | | | | | ••••• | → 1 |
| | | | | | | | | | |
| Bladderwort | Collected in a pool in a Carex rostrata — Calamagrostis canadensis meadow in Dellona Township in 1974. The range of this species may be more extensive than presently documented (Haber 1979). KL. | •••• | | | | * | ••••• | | ♦ 1 |
| Bladderwort | Kettle ponds, river sloughs, pools in creek bottoms. | * | * | | . | * | ••••• | ••••• | * 2 |
| (| | | | | | | | | |
| False Mermaid | Seepages and vernally moist places in deciduous and mixed woods, damp wooded stream sides, Alder thickets; mainly in the Baraboo Hills. | * | * | | * | •••• | | | ♦ 3 |
| 28:171-73 | | | | | | | | | |
| | Dry prairies in a variety of soils, rhyolite glades; mainly in the Western Upland. | * | | | * | * | | ••••• | \$ 3 |
| 51:87-92 | | | | | | | | | |
| Swamp Loosestrife | Known only from the margin of a glacial kettle (Lost Lake) in lowland deciduous forest in the Baraboo Hills, where forming a zone, 15-30 ft in width; it in turn is bordered by a band of Alder, 50-100 ft in width. | ······ | | | | ••••• | | | → 1 |
| | Hedge-nettle Germander, Wood-sage False Pennyroyal Bladderwort Grander, Wood-sage | meadows, loamy prairies, Leather-leaf bogs, marshy kettles, cat-tail marshes, floodplain forests, Tamarack swamps. Low meadows and floodplain forests along the Wisconsin River and up the Baraboo River for approximately a mile. Germander, Sedge meadows, alkaline meadows, sandy meadows, floodplain forests, marshy openings in deciduous woods, Tamarack swamps, Alder thickets, also dry weedy oak woods and dry weedy fields. False Pennyroyal Known only from an 1865 collection from the Upper Narrows of the Baraboo Hills and a 1992 collection from a dry rocky prairie on glacial till in Devil's Lake State Park. WIS, KL. Bladderwort Collected in a pool in a Carex rostrata — Calamagrostis canadensis meadow in Dellona Township in 1974. The range of this species may be more extensive than presently documented (Haber 1979). KL. Kettle ponds, river sloughs, pools in creek bottoms. Kettle ponds, river sloughs, pools in creek bottoms. Seepages and vernally moist places in deciduous and mixed woods, damp wooded stream sides, Alder thickets; mainly in the Baraboo Hills. Dry prairies in a variety of soils, rhyolite glades; mainly in the Western Upland. Known only from the margin of a glacial kettle (Lost Lake) in lowland deciduous forest in the Baraboo Hills, where forming a zone, 15-30 ft in width; it in turn is bordered by a band of Alder, 50-100 ft | Hedge-nettle Low meadows, alkaline meadows, sedge meadows, loamy prairies, Leather-leaf bogs, marshy kettles, cat-tail marshes, floodplain forests, Tamarack swamps. Hedge-nettle Low meadows and floodplain forests along the Wisconsin River and up the Baraboo River for approximately a mile. Germander, Sedge meadows, alkaline meadows, sandy meadows, floodplain forests, marshy openings in deciduous woods, Tamarack swamps, Alder thickets, also dry weedy oak woods and dry weedy fields. False Pennyroyal Known only from an 1865 collection from the Upper Narrows of the Baraboo Hills and a 1992 collection from a dry rocky prairie on glacial till in Devil's Lake State Park. WIS, KL. Bladderwort Collected in a pool in a Carex rostrata — Calamagrostis canadensis meadow in Dellona Township in 1974. The range of this species may be more extensive than presently documented (Haber 1979). KL. Bladderwort Kettle ponds, river sloughs, pools in creek bottoms. Kettle ponds, river sloughs, pools in creek bottoms. Calamagrostis canadensis meadow in deciduous and mixed woods, damp wooded stream sides, Alder thickets; mainly in the Baraboo Hills. Dry prairies in a variety of soils, rhyolite glades; mainly in the Western Upland. Seepages and vernally moist places in deciduous forest in the Baraboo Hills, where forming a zone, 15-30 ft in width; it in turn is bordered by a band of Alder, 50-100 ft | Hedge-nettle Low meadows, alkaline meadows, sedge meadows, loamy prairies, Leather-leaf bogs, marshy kettles, cat-tail marshes, floodplain forests, Tamarack swamps. Hedge-nettle Low meadows and floodplain forests along the Wisconsin River and up the Baraboo River for approximately a mile. Germander, Sedge meadows, alkaline meadows, sandy meadows, floodplain forests, marshy openings in deciduous woods, Tamarack swamps, Alder thickets, also dry weedy oak woods and dry weedy fields. False Pennyroyal Known only from an 1865 collection from the Upper Narrows of the Baraboo Hills and a 1992 collection from a dry rocky prairie on glacial till in Devil's Lake State Park. WIS, KL. Bladderwort Collected in a pool in a Carex rostrata— Calamagrostis canadensis meadow in Dellona Township in 1974. 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| LYTHRACEAE LOOSESTRIFE FAMILY (d | continued) | | | | | | | | | | |
| Lythrum alatum Pursh | Loosestrife | Alkaline meadows, alluvial meadows, loamy prairies. Listed for the Baraboo Hills on the basis of an 1885 collection labelled "Baraboo." In Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | * | * | ••••• | | * | •••••• | | * | 2 |
| ⁿ Lythrum salicaria L. | Purple Loosestrife | Escaping from garden plantings to become a weed of wet places. First noted in the study area in Delton Township in 1974, and at Devil's Lake in 1976; especially numerous along the Wisconsin River. Stuckey (1980) discusses the distributional history of this wetlands invader (Henderson 1987). | * | * | * | * | * | | | | 3 |
| Rotala ramosior (L.) Koehne | Tooth-cup | Sandy and mucky shores, wet open sand. | | * | * | * | * | * | | * | 2 |
| MALVACEAE MALLOW FAMILY PR 60, 1970, Trans. WASAL | 58:301-23 | | | | | | | | | | |
| ⁿ Abutilon theophrasti Medic. | Velvet-leaf | Agricultural land, often corn fields, also roadsides, edges of woods, waste places. | | * | | * | * | | | | 3 |
| SC Callirhoe triangulata (Leavenw.) Gray | Poppy Mallow | Dry sandy prairies and sand barrens; known from Spring Green and Prairie du Sac Townships. WIS, KL. | • • • • • • | | | * | * | ••••• | ••••• | | 1 |
| ⁿ Hibiscus trionum L. | Flower-of-an-hour | Waste places, roadsides, agricultural land. | . | | | | | | | | 2 |
| ⁿ Malva moschata L. | Musk Mallow | Dry weedy places; collected at Devil's Lake State Park in 1981. KL. | | * | | | | ••••• | ••••• | | 1 |
| ⁿ Malva neglecta Wallr. | Common Mallow | Roadsides, railroads, agricultural land, lawns. | * | * | • • • • • • | * | * | ••••• | | * | 2 |
| ⁿ Malva rotundifolia L. | | Roadsides and other weedy areas. WIS (a 1966 collection) and Leopold Reserve Herbarium (a 1940 collection). | * | | | | * | ••••• | ••••• | * | 1 |
| SC Napaea dioica L. | Glade Mallow | Wooded river margins, along creeks in sedge meadows, wet roadsides in woods. | | * | | | | | | * | 2 |
| MELASTOMATACEAE MEADOW-BEAUTY FAM PR 47, 1962, Trans. WASAL | | | | | | | | | | | |
| Rhexia virginica L. | Meadow-beauty | Known only from a 1930 collection from Spring Green (Figure 40). WIS. | | | | * | | | ••••• | * | 1 |
| MENISPERMACEAE MOONSEED FAMILY Cochrane 1990 | | | | | | | | | | | |
| Menispermum canadense L. | Moonseed | Moist woods and bottomland forests, also dry timbered ridgetops; may be weedy, for example along railroad tracks. | * | | | ·········· ♦ | | | | * | 3 |

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| MORACEAE (incl. CANNA) MULBERRY FAMILY | | ILY) | | | | | | | |
| PR 23, 1933, Trans. WASAL 2 | | TATE A SECOND CONTRACTOR OF THE CONTRACTOR OF TH | | | | | | ····· | 3 |
| ⁿ Cannabis sativa L. | Marijuana, Hemp | Weedy in disturbed sites. Most wild plants represent escapes from cultivation; introduced for its fibers. | * * | ~ | ~ | | | v | 3 |
| Humulus lupulus L. (incl. H. americanus Nutt.) | Common Hops | Low sandy woods, Alder thickets, bottomland forests, also upland sites; records include both native plants and plants escaped from cultivation. | * | * | | | | * | 2 |
| ⁿ Morus alba L. | White Mulberry | Escaping from cultivation; introduced to supply leaves for silkworm culture. | * * | * | * | | | * | 2 |
| Morus rubra L. | Red Mulberry | Known only from Red Oak-Silver Maple forest at Ferry Bluff (T9N, R6E, SW1/4 of section 20), where collected by H.H. Iltis in 1985; first collected here by N.C. Fassett in 1937. WIS, MIL. | | > | | ÷ | | * | 1 |
| MYRICACEAE SWEET-FERN FAMILY PR 17, 1932, Trans. WASAL | 27:231, 233 | | | | | | | | |
| Comptonia peregrina (L.) Coult. (Myrica aspleniifolia L.) | Sweet-fern | Sandy plains and fields, drier oak woods, Jack Pine-oak stands, rarely in sandy loam; in the Baraboo Hills known only from the west end of the South Range. | * | * | * | | | * | 3 |
| NYCTAGINACEAE FOUR-O'CLOCK FAMILY | | | | | | | | | |
| ^a Mirabilis hirsuta (Pursh.) MacM. | Four-o'clock | Dry sandy prairies and sandy roadsides in the northwestern corner of the Baraboo Hills and adjacent lands, and railroad ballast in the Western Upland; a Great Plains species. | * | * | ♦ | | | | 2 |
| ^a Mirabilis nyctaginea (Michx.) MacM. | Four-o'clock | Railroad ballast and roadsides, dry sandy prairies, blufftop prairies; native south and southwest of the study area. | * * | ······· | ······ | | ••••• | * | 3 |
| NYMPHAEACEAE WATER-LILY FAMILY PR 33, 1946, Trans. WASAL | 38:189-94 | | | | | | | | |
| Brasenia schreberi Gmel. | Water-shield | Ponds and lakes. WIS, KL. | | | * | * | | | 1 |
| Nuphar lutea (L.) Sm. ssp. advena (Ait.) Kartesz & Gandhi (N. advena (Ait.) Ait. f.) | Spatter-dock | Bays, ponds, lakes. WIS, KL. | | | * | * | | * | 1 |
| Nuphar lutea (L.) Sm. ssp. variegata (Dur.) E.O. Beal (N. variegata Dur.) | Spatter-dock | Bays, ponds, lakes. WIS, KL. | | | ····· | * | | ···· | 1 |
| Nymphaea odorata Ait. (N. tuberosa Paine) | White Water-lily | Bays, ponds, lakes, sloughs, sandy brooks. | | * | * | | | | 2 |
| OLEACEAE ASH FAMILY | | | | | | | | | |
| | | Dry to moist woods, Hemlock stands. | | | | | | | |

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| LEACEAE SH FAMILY (continued) | | | | | | | | | | |
| Fraxinus nigra Marsh. | Black Ash | Alluvial woods, damp wooded slopes and ravines, Tamarack swamps, Alder thickets. | * | \$ | * | * | | ••••• | | 3 |
| Fraxinus pennsylvanica Marsh. | Red Ash, incl. Green Ash | Mainly lowland and mesic forests, also dry woods. | \$ | \$ | * | * | | | ····· | 4 |
| ⁿ Syringa vulgaris L. | Common Lilac | Characteristic of rural cemeteries and abandoned homesteads; spreading, or merely persisting from plantings? | * | \$ | * | | | | | 3 |
| NAGRACEAE VENING-PRIMROSE FAI R 47, 1962, Trans. WASAL | | | | | | | | | | |
| Circaea alpina L. | Enchanter's- nightshade | Relatively cool and damp woods, Hemlock stands. | * | * | | | • • • • • • • | | ····· | 3 |
| Circaea lutetiana L. ssp. canadensis (L.) Asch. & Mag. (C. quadrisulcata (Maxim.) Franch. & Sav. ssp. canadensis (L.) A. & D. Löve) | Enchanter's- nightshade | Dry to moist woods, low sandy woods, pine-oak woods, Hemlock stands. | * | * | ··········◆ | ····· | | | | 4 |
| Epilobium angustifolium L. | Fireweed | "Disturbed open places in sandy soil" (Zimmerman 1947:89); common in northern Wisconsin. WIS. | | * | ••••• | * | | | | 1 |
| Epilobium ciliatum Raf. (incl. E. adenocaulon Haussk. × E. glandulosum (Lehm.) | | Marshy and swampy ground, including fens, also sandy meadows. | * | \$ | ••••• | * | | | ····· | 3 |
| Epilobium coloratum Biehler | | Wet places, including Alder thickets, Tamarack swamps, also dry prairies, dry limey woods. | * | * | * | * | | | | 3 |
| Epilobium leptophyllum Raf. (E. lineare of authors, not Muhl.) | Linear-leaved Willow-herb | Fens, alkaline meadows, sedge meadows; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | ·····◆ | \$ | | | | | * | 3 |
| Ludwigia palustris (L.) Ell. | Water-purslane | Margins of rivers, for example sandbars, and lakes, also sedge meadows. | | * * | * | * | | | | 3 |
| Ludwigia polycarpa Short & Peter | Water-purslane | Swampy and marshy ground, including sedge meadows. | ••••• | • | * | | • • • • • • • | | * | 2 |
| Oenothera biennis L. (incl. O. parviflora L. & O. villosa Thunb.) | Evening-primrose | Dry sandy or gravelly, often disturbed places, including weedy fields, roadsides, railroad ballast. | * | * | * | * | | | * | 4 |
| Oenothera clelandii Dietrich, Raven, & W. L. Wagner (O. rhombipetala of authors, not Nutt.) | Evening-primrose | Dry sandy or gravelly, often disturbed places, including weedy prairies, river margins, roadsides. | | | * | * | | | * | 3 |
| Oenothera perennis L. | Sundrops | Generally in relatively moist ground, such as seepages, wet sand, ditches. | * | * | * | * | | | * | 4 |

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| OROBANCHACEAE BROOM-RAPE FAMILY | | | | | | | | | |
| Conopholis americana (L.) Wallr. | Squawroot | Dry to moist oak woods. A root parasite of oaks; probably more widespread than indicated. | | | | | | ••••• | ÷ |
| SC Orobanche uniflora . L. | One-flowered Cancer-root | Upland and lowland deciduous woods. A total of approximately 90 plants in 1991 along the trail on top of the west bluff in Devil's Lake State Park, a locality first noted in 1966. | ·········◆ | . | | | · • • • • • • • | | * |
| OXALIDACEAE WOOD-SORREL FAMILY PR 21, 1933, Trans. WASAL | 28:172-76 | | | | | | | | |
| Oxalis dillenii Jacq. (O. stricta L. sensu American authors) | Wood-sorrel | Dry disturbed places, including roadsides and railroads, gardens and lawns, weedy fields, weedy woods. | | ············ | | | | | > |
| Oxalis montana Raf. (O. acetosella L. ssp. montana (Raf.) D. Löve) | Common Wood-sorrel | Northern forests of Yellow Birch-Hemlock- Yew in LaValle Township (Figure 38). Rare in southern Wisconsin; apparently disjunct from Marathon County, Wisconsin, 100 miles to the north. KL. | | | | * | | | * |
| Oxalis stricta L. (after Eiten; O. europaea Jordan) | Wood-sorrel | Dry disturbed places, sunny and shady. | | * | ••••• | * | * | | * |
| Oxalis violacea L. | Violet Wood-sorrel | Dry prairies in sandy and limey soils, quartzite and rhyolite glades and associated dry woods. | ♦ | ♦ | | | * | | * |
| PAPAVERACEAE (incl. FUN POPPY FAMILY | MARIACEAE) | | | | | | | | |
| SC Adlumia fungosa (Ait.) BSP. | Mountain-fringe | "Thave only found it wild among the ferns, hemlocks and rocks at the Upper Narrows of the Baraboo River" (Toole 1922:49). It still is at this locality, on east and north-facing talus slopes and cliffs. Listed by Lueders (1895:516). KL. | * | | | | | | * |
| ⁿ Chelidonium majus L. | Celandine | Weedy in woods, roadsides; the Baraboo Hills record is based upon an 1886 specimen labelled "Baraboo." WIS, KL. | . | ••••• | | | | | * |
| Corydalis sempervirens (L.) Pers. | Pale Corydalis | Open rocky areas, dry woods and quartzite and rhyolite glades. See <i>Polymnia</i> . | * | * | | * | * | | * |
| Dicentra canadensis (Goldie) Walp. | Squirrel-corn | Deciduous and mixed, usually moist woods; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | | * | * | | * |
| Dicentra cucullaria (L.) Bernh. | Dutchman's-breeches | Deciduous woods, dry to moist, also damp mixed woods. This species lights up the Devil's Lake bluffs in late April-early May (Figure 37). | * | * | | | ······ | | * |
| Sanguinaria canadensis L. | Bloodroot | Dry to mesic forests, lowland forests, Hemlock stands. | * | * | ••••• | . | * | | * |
| PHYTOLACCACEAE POKEWEED FAMILY | | | | | | | | | |
| Phytolacca americana L. | Pokeweed | Dry weedy woods and borders; a 1985 collection. KL. | ····· | | | | | | * |

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| PLANTAGINACEAE PLANTAIN FAMILY PR 59, 1967-68, Trans. WASA | AL 56:281-313 | | | | | | | | |
| ^a Plantago aristata Michx. | Bracted Plantain | Dry open sandy places; a Great Plains species. | | | * | | | | |
| ⁿ Plantago lanceolata L. | Ribgrass | Weedy in lawns, fields, roadsides, and other open disturbed places. | * | ♦ | * | | | | |
| ⁿ Plantago major L. | Broad-leaved Plantain | Weedy in lawns, fields, roadsides, railroad ballast, gravel pits, and other open disturbed places. | ····· | * | * | ♦ | • • • • • • • | ••••• | ♦ 5 |
| Plantago patagonica Jacq. (P. purshii R. & S.) | Indian-wheat | Dry open sandy places, gravelly roadsides, railroad tracks, pavement. | | * | * | * | | | * 3 |
| Plantago rugelii Dcne. | Rugel's Plantain | Weedy in deciduous forests, including lowlands, for example along trails, also dry open disturbed places. | | * | | * | • • • • • • • | | ♦ 5 |
| PLATANACEAE SYCAMORE FAMILY | | | | | | | | | |
| SC Platanus occidentalis L. | Sycamore | Along the Wisconsin River at least as far upriver as the Prairie du Sac area, for example a double-trunked tree, apparently native, just below the Prairie du Sac dam in Columbia County, West Point Township (another native sycamore is growing directly across from Derleth Park, Sauk City, in this township). Listed by Lueders (1895: 521). The University of Wisconsin has specimens from Spring Green. WIS. | | | * | | * | | ↑ 1 |
| POLEMONIACEAE PHLOX FAMILY PR 57, 1966, Trans. WASAL | 55:243-53 | 1 1 0 | | | | | | | |
| Phlox divaricata L. | Blue or Woodland Phlox | Floodplain forests, wooded ravines, moist deciduous forests. | * | * | | . | | | |
| ⁿ Phlox paniculata L. | Summer Phlox | Native farther east and south. Persisting in old gardens and abandoned cemeteries, and spreading to roadsides, ditches, railroad embankments, and other disturbed places. | | * | * | . | • • • • • • • | | * 3 |
| Phlox pilosa L. | Downy or Prairie Phlox | Limey and sandy hill prairies, loamy prairies, open oak woods; stations vary from dry to damp. | | | * | . | | | ♦ 3 |
| Polemonium reptans L. | Jacob's-ladder | Mainly damp to wet shady places, such as lowland woods, Alder thickets, Tamarack swamps, also fens, alkaline meadows, loamy prairies; sometimes in drier sites. | . | * | * | ♦ | • | | |
| POLYGALACEAE MILKWORT FAMILY PR 21, 1933, Trans. WASAL | .28:175, 177-78 | | | | | | | | |
| Polygala polygama Walt. | Milkwort | Dry open sand, shifting or stable, also sandy meadows, quartzite outcrops. | | | * | > | | | |
| Polygala sanguinea L. | Milkwort | Dry open sand, dry sandy prairies, quartzite and rhyolite glades, sandy meadows. | | * | * | ····· | | | \$ 3 |

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| DLYGALACEAE MILKWORT FAMILY (cont | inued) | | | | | | | |
| Polygala senega L. | Seneca Snakeroot | Thinly wooded limey bluffs; in the Baraboo Hills known only from the west end of the South Range. WIS, KL. | * | | | • • • • • • | | → 1 |
| Polygala verticillata L. | ••••• | Sandy meadows, also open wet sand. Listed by Lueders (1895:517). WIS, AC. | | | ••••• | * | ••••••••••• | ↑ 1 |
| DLYGONACEAE BUCKWHEAT FAMILY PR 15, 1932, Trans. WASAL | 27-207-25 | | | | | | | |
| Polygonella articulata (L.) Meisn. | Jointweed | Dry open sand, shifting or stable. | | | | | | \$ 2 |
| Polygonum amphibium L. var. emersum Michx. (P. coccineum Willd.) | Water Smartweed | Lake and river shores, sedge meadows, swales in sandy meadows. | ••••• | * * | ···· | * | • | |
| Polygonum amphibium L. var. stipulaceum Coleman (P. natans Eaton) | Water Smartweed | Lake shores, sedge meadows. | | * * | ······ | * | • | \$ 3 |
| Polygonum arifolium L. | Halberd-leaved Tearthumb | Sedge meadows, Tamarack swamps, low sandy woods, marshy openings in deciduous woods, wet ground along streams and lakes. | * | * | ····· | * | | * 3 |
| ⁿ Polygonum aviculare L. | Knotweed | Dry often calcareous ground, including roadsides, railroad ballast, lawns and gardens, sidewalk cracks, waste land. | | * | * | * | · | |
| Polygonum cilinode Michx. | Climbing Buckwheat | Mixed often northern woods, low sandy woods. | * | | * | | | |
| ⁿ Polygonum convolvulus L. | Black Bindweed | Disturbed ground, including cultivated fields, weedy prairies, railroad ballast, degraded woods. | * | * | * | * | | \$ 3 |
| ⁿ Polygonum cuspidatum Sieb. & Zucc. | Japanese Knotweed | Persisting and occasionally escaping from plantings. KL. | | * | | | · · · · · · · · · · · · · · · · · · · | \$ 1 |
| Polygonum hydropiper L. | Water-pepper | Sedge meadows, marshy shores, swales in sandy meadows, fens; often weedy. | * | * | * | * | • | \$ 3 |
| Polygonum hydropiperoides Michx. | Smartweed | Sedge meadows, marshy shores; often in shallow water. | * | ♦ | * | | •••••• | \$ 3 |
| Polygonum lapathifolium L. | Nodding Smartweed | Sedge meadows, marshy hollows, fens, low sandy woods; generally in damp ground, often where disturbed. | * | * | * | * | | ф 3 |
| Polygonum pensylvanicum L. | Pinkweed | Sedge meadows, marshy hollows, marshy shores, wet open sand, sometimes dry ground; often where disturbed. | | * | * | * | | \$ 3 |
| ⁿ Polygonum persicaria L. | Lady's-thumb | Disturbed sites, for example roadsides; sometimes in relatively dry ground. | * | * | * | * | ••••• | |
| Polygonum punctatum Ell. | Smartweed | Wetlands, including shady sites: sedge meadows, fens, bogs, Alder thickets, Tamarack swamps, low sandy woods, deciduous swamps, river sandbars. | * | * | * | * | | \$ 4 |
| Polygonum | Bushy Knotweed | Sandy and gravelly shores and strands. | | | | | * | |

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| OLYGONACEAE UCKWHEAT FAMILY (ca | ontinued) | | | | | | | | | |
| Polygonum sagittatum L. | Arrow-leaved Tearthumb | Low meadows, sandy meadows, fens, low thickets, bogs, Tamarack swamps, low sandy woods, deciduous swamps, marshy openings in forested uplands. | ·····◆ | | | * | * | | • • • • • • • | |
| Polygonum scandens L. | Climbing False Buckwheat | Marshy shores, sedge meadows, loamy prairies; sometimes in drier sites. | | * | | * | * | | | |
| Polygonum tenue Michx. | Knotweed | Dry prairies in a variety of soils, quartzite and rhyolite glades; sometimes weedy in pavement and along roads and railroads. | * | * | | * | * | | • • • • • • • • | |
| Polygonum virginianum L. (Tovara virginiana (L.) Raf.) | Jumpseed | Floodplain forests, moister woods, Alder thickets, Hemlock stands; often along borders. | | | | | * | | | |
| ⁿ Rumex acetosella L. | Sheep Sorrel | Dry sandy fields, such as old bluegrass pastures, and adjoining disturbed woods, also weedy prairies and Red Cedar glades in a variety of soils. | . | ÷ | | * | * | | | |
| Rumex altissimus Wood | Pale Dock | River shores, also roadsides and railroad embankments. | | \$ | | | * | | | |
| ^{it} Rumex crispus L. | Curly Dock | Disturbed ground, dry or damp: abandoned fields and pastures, roadsides, railroad embankments, waste areas, weedy clearings, marshy shores; sometimes persisting in woods. | * | ÷ | | * | * | ••••• | | ♦ 5 |
| ⁿ Rumex obtusifolius L. | Bitter Dock | Disturbed, usually moist ground, including roadsides, borders of woods, open woods. | | | | | | | | * 3 |
| Rumex orbiculatus Gray (R. britannica of American authors, not L.) | Water Dock | Sedge meadows, marshy ground. | ····· | | | ••••• | ······ | | • | |
| Rumex salicifolius Weinm. var. mexicanus (Meisn.) C.L. Hitchc. (R. mexicanus Meisn.; R. triangulivalvis (Danser) Rech. f.) | | Sandy and marshy shores. WIS. | ••••• | | • • • • • • | | * | * | | ♦ 1 |
| Rumex verticillatus L. | Swamp Dock | Deciduous swamps and marshy ground along the Wisconsin River and up the Baraboo River to at least Section 19 in T12N, R9E. | | | | | * | > | | |
| ORTULACACEAE PURSLANE FAMILY | | | | | | | | | | |
| Claytonia virginica L. | Spring Beauty | Moister forests, also relatively dry woods; may persist (and spread) with moderate grazing. | ······ | * | | * | * | | | |
| ⁿ Portulaca oleracea L. | Common Purslane | Weedy along roads and railroads, in pavement, waste ground, open rocky hills, excavations. For this species in North America, see Matthews et al. (1993). | * | * | | * | | | | ♦ 5 |

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| PORTULACACEAE PURSLANE FAMILY (cont. | inued) | | | | | | | |
| SC Talinum rugospermum Holzinger | Fameflower | Dry prairies in sandy and limey soils and glacial till, rhyolite glades; sometimes in disturbed places, for example right-of-ways through sandy woods. Not an endemic of the Upper Midwest, as once thought (Cochrane 1993). | ······ | * | * | * | | ⇒ 3 |
| PRIMULACEAE PRIMROSE FAMILY PR 43, 1960, Trans. WASAL | 49:113-35 | | | | | | | |
| Androsace occidentalis Pursh | | Dry open sand, for example glacial terraces of the Wisconsin River floodplain, roadsides; local. Listed for the Baraboo Hills on the basis of an 1861 specimen labelled "Baraboo." | ····· | | | * | | \$ 2 |
| Dodecatheon meadia L. | Shooting Star | Mainly dry prairies and glades in a variety of soils and rock types, also adjoining dry woods. | | ** | ········ | * | | \$ 4 |
| Lysimachia ciliata L. | Fringed Loosestrife | Sunny or shady, damp to wet places, such as lowland woods, marshy banks and sloughs, deciduous swamps, Alder thickets. | ····· | * | ········· | | | ♦ 4 |
| Lysimachia hybrida Michx. | Lowland Loosestrife | Marshy areas along drainages and lakes, marshy hollows such as glacial kettles, seasonally wet swales and ditches, in sun or shade. | * | * | | * | | ♦ 3 |
| Lysimachia lanceolata Walt. | Upland Loosestrife | In habitats generally not as wet as <i>L. hybrida</i> : dry sandy prairies, sandy meadows, sedge meadows, dry oak woods, low sandy woods. | ♦ | * | \$ | ····· | | ♦ 3 |
| ⁿ Lysimachia nummularia L. | Moneywort | Low damp ground, especially alluvial bottomland woods, also marshy shores, sloughs, mudflats, Alder thickets, moist weedy places. | * | * | * | * | | ♦ 4 |
| Lysimachia quadriflora Sims | | Fens and alkaline meadows; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | | * | | | | > 2 |
| Lysimachia quadrifolia L. | Whorled Loosestrife | Usually relatively dry deciduous or mixed woods, including Hemlock stands and Red Cedar glades, but also moister sites, such as low sandy woods and boggy Red Maple thickets. | * | | * | * | | → 4 |
| Lysimachia terrestris (L.) BSP. | Swamp Candles | Marshy lake shores, sandy meadows, sedge meadows, Tamarack swamps, low sandy woods. | ••••• | * * | * | * | • | * 3 |
| Lysimachia thyrsiflora L. | Tufted Loosestrife | Alkaline meadows, sedge meadows, marshy hollows such as glacial kettles, cat-tail marshes, Alder thickets, Leather-leaf bogs, Tamarack swamps; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | ♦ | * | > | * | | * 3 |
| SC Primula mistassinica Michx. | Arctic Primrose | Known only from a damp sandstone cliff near the mouth of Dell Creek; a total of approximately 50 green rosettes covering a linear area of 2 ft in 1977. KL. | | | | * | | ♦ 1 |

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| IMULACEAE RIMROSE FAMILY (conti | inued) | | | | | | | | | |
| Trientalis borealis Raf. | Star-flower | Cooler damp woods, deciduous and mixed, also low sandy woods, Tamarack swamps, boggy Red Maple thickets. | * | * | | | ♦ | | | * |
| NUNCULACEAE UTTERCUP FAMILY R 11, 1930, Trans. WASAL | 25:205-14; PR 33, 1947, Tra | ans. WASAL 38:193-206 | | | | | | | | |
| T Aconitum noveboracense Cov. | Northern Monkshood | Cool, damp, shady sandstone cliffs. In Devil's Lake State Park known only from Parfrey's Glen (Figure 42), where in 1976 the population was estimated at 100-150 plants (Read 1977:20), and in 1992 at 75-100 plants by A. Clark. In the Western Upland known from Lodde's Mill Bluff, 5 miles downriver from Sauk City, where approximately 70 plants were noted in 1976 (Read 1977:20) and approximately 100 in 1984 (E. Epstein), and Horse Bluff in LaValle Township; at Horse Bluff this species is growing at the base of the outcrop, with mosses and 5 species of ferns (approximately 12 plants in 1988). Also known from Pewit's Nest in the Baraboo Hills, a gorge southwest of Baraboo, where it was collected in 1927 (Fuller 1927:177; annotated as A. uncinatum) and 1948 (University of Wisconsin Herbarium). It could not be found here in 1967, 1970, or 1991; these cliffs may have become too dry for this species. Listed as threatened under the U.S. Endangered Species Act. | * | * | | * | | | | * |
| Actaea pachypoda Ell. (A. alba of authors, not (L.) Mill.) | White Baneberry | Deciduous woods, relatively dry to relatively damp, but often drier than the localities for <i>A. rubra</i> , also Hemlock stands. | ········ ♦ | | ••••• | ÷ | ······ | | | * |
| Actaea rubra (Ait.) Willd. | Red Baneberry | Deciduous woods, relatively dry to relatively damp, but often moister than the localities for <i>A. pachypoda</i> , also Hemlock stands. | * | * | | ♦ | | | | * |
| Anemone canadensis L. | Canada Anemone | Sedge meadows, alkaline meadows, loamy prairies, alluvial deciduous bottomlands; mainly in the floodplain of the Wisconsin River. | * | * | | \$ | * | | | * |
| Anemone cylindrica Gray | Thimbleweed | Dry limey and sandy prairies, sandy pine- oak woods; in Devil's Lake State Park known only from a dry prairie on sandstone. | * | * | | | * | | | * |
| Anemone quinquefolia L. | Wood Anemone | Dry to wet deciduous and mixed woods, low sandy woods. | * | * | | | * | | | * |
| Anemone virginiana L. (incl. A. riparia Fern.) | Virginia Anemone | Dry to mesic woods, including their borders, also fens. | | * | | | | | | * |
| Aquilegia canadensis L. | Wild Columbine | Dry to mesic oak woods, Hemlock stands, Red Cedar glades, sunny or shady rock outcrops, including adjoining prairies. | \$ | | | | | | | ♦ |

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| ANUNCULACEAE BUTTERCUP FAMILY (con | ntinued) | | | | | | | | | |
| Caltha palustris L. | Marsh-marigold | Sedge meadows and alkaline meadows, fens, mucky creek beds, Alder thickets, Tamarack swamps, low sandy woods. | | * | ····· | ······ | | | * | 4 |
| SC Clematis occidentalis (Hornem.) DC. (C. verticillaris DC.) | Purple Clematis | Cooler woods, where often associated with sandstone or quartzite outcrops; known from approximately 8 stations. | \$ | | * | \$ | | | \$ | 2 |
| Clematis virginiana L. | Virgin's-bower | Dry to damp woods and thickets, including weedy sites; often in edge habitats. | * | * | * | * | | | * | 4 |
| Coptis trifolia (L.) Salisb. ssp. groenlandica (Oeder) Fassett (C. groenlandica (Oeder) Fern.) | Goldthread | Tamarack swamps, boggy Red Maple thickets, low sandy woods, also cool, damp, shady sandstone cliffs. | | | * | * | | | * | 2 |
| Hepatica nobilis Mill. var. acuta (Pursh) Steyerm. (H. acutiloba DC.) | Hepatica | Mainly moist woods, Hemlock stands. The Central Plain record is from the Leopold Reserve, 1978. In 1944 Aldo Leopold noted in his journal, "We have none on the place"; in 1947 he brought Hepaticas to the Reserve from at least 2 localities, Blue Mound State Park by Mt. Horeb, Wisconsin, and the Baraboo Hills (Leopold Shack Journal, 23 October 1944, 16 and 30 May 1947). Both varieties occur on the Reserve, so Leopold must have introduced both acuta and obtusa. | * | | ·········· | * | | | * | 4 |
| Hepatica nobilis Mill. var. obtusa (Pursh) Steyerm. (H. americana (DC.) Ker.) | Hepatica | Dry to moist woods, Hemlock stands, White Pine stands. Several records for the Central Plain; apparently more widespread than variety acuta. See comments under variety acuta. | * | * | * | * | | | * | 4 |
| Isopyrum biternatum (Raf.) T. & G. | False Rue-anemone | Moister woods; local. | | * | | | | • • • • • • | \$ | 3 |
| Pulsatilla patens (L.) P. Mill. (Anemone patens L. var. wolfgangiana (Besser) Koch) | Pasque Flower | Dry limey and sandy prairies. | ······ | | · | ······ | | | \$ | 3 |
| Ranunculus abortivus L. | Small-flowered Crowfoot | Dry to swampy woods, including their openings, also Alder thickets, Hemlock stands; often where disturbed. | | * | ···········◆ | ····· | ••••• | | * | 5 |
| ⁿ Ranunculus acris L. | Tall Buttercup | Known only from marshy ground by Devil's Lake, where collected in 1946 and 1967. WIS, KL. | | * * | | | | | * | 1 |
| Ranunculus fascicularis Bigelow | Early Buttercup | Dry prairies in a variety of soils, quartzite and rhyolite glades, sandy oak woods. | | * | * | | ••••• | • • • • • • • • | * | 4 |
| Ranunculus flabellaris Raf. | Yellow Water Crowfoot | Forest pools, sloughs, ponds, willow swamps. | | * | * | | ••••• | • • • • • • • • | \$ | 2 |
| Ranunculus hispidus Michx. (R. septentrionalis Poir.) | Swamp Buttercup | Deciduous swamps, moister woods, marshy borders of streams, sloughs, Alder thickets, loamy prairies. | ····· | * | * | | | • • • • • • • • | * | 3 |
| Ranunculus longirostris Godr. | White Water Crowfoot | Lakes, ponds, creeks, pools. | ······ | | * | * | | | | 2 |
| Ranunculus pensylvanicus L. f. | Bristly Crowfoot | Marshy pond margins, lake shores, Alder thickets, Tamarack swamps. | ······ | * | * | | ••••• | | \$ | 3 |

(continued on next page)

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| NUNCULACEAE JTTERCUP FAMILY (con | tinued) | | | | | | | | | | |
| Ranunculus recurvatus Poir. | Hooked Crowfoot | Damper places in a variety of woods, also adjoining open wetlands; often where disturbed, for example along trails. | | . | | | ····· | | | | |
| Ranunculus rhombiodeus Goldie | Prairie Buttercup | Dry open sandy places; in the Baraboo Hills known only from the northwestern corner. | * | | | ••••• | * | | ••••• | * | |
| Ranunculus sceleratus L. | Cursed Crowfoot | Wet muddy shores, sandbars, pools. This species was abundant on the mudflats at the southwestern corner of Devil's Lake in 1975-76, the second and third years after the receding of high water from a flood year (see Eleocharis acicularis; Figure 32). | | ··········· | ÷ | ···· | . | | | * | |
| Thalictrum dasycarpum Fisch. & Avé-Lall. | Purple Meadow-rue | Low meadows, alkaline meadows and fens, loamy prairies, cat-tail marshes, Alder thickets, Tamarack swamps, low sandy woods. | . | * | | ······ | . | | | ♦ | |
| Thalictrum dioicum L. | Early Meadow-rue | Deciduous woods, mainly mesic but also dry. | | | | ······ | . | | | | |
| Thalictrum thalictroides (L.) Eames & Boivin (Anemonella thalictroides (L.) Spach) | Rue-anemone | Deciduous woods, mainly mesic but also dry. | * | ÷ | | ······ | | | | * | • • • |
| HAMNACEAE EUCKTHORN FAMILY R 30, 1940, Trans. WASAL Ceanothus americanus L. | 32:107-09 New Jersey Tea | Dry prairies and dry oak woods in sandy soils, quartzite glades; often in openings | ······ | ····÷ | | ······ | ······ | | | | |
| Ceanothus herbaceus Raf. (C. ovatus of authors, not Desf.) | Redroot | and borders, including roadsides. Jack Pine woods, including their borders, also pine plantations in sandy soil; in the Baraboo Hills known only from the northwestern corner. | ······ | | | | | | | | ••• |
| ⁿ Frangula alnus P. Mill (Rhamnus frangula L.) | Glossy Buckthorn | Open weedy places, for example vacant land; a 1968 collection. KL. | * | | | | | | ••••• | * | |
| Rhamnus alnifolia L'Hèr. | Alder-leaved Buckthorn | Tamarack swamps, boggy meadows; often in openings and edges. Formerly in a Tamarack swamp once located in Prairie du Sac Township(Lueders 1895:514). KL. | | | | | * | | | * | ••• |
| ⁿ Rhamnus cathartica L. | Common Buckthorn | Widespread in drier woods and pine plantations (edge and interior), Red Cedar glades, vacant land, along roads and railroads, also in wet ground, for example swampy places, fens. | | * | | * | * | | | * | |
| OSACEAE ROSE FAMILY PR 42, 1958, Trans. WASAL | 47.65-97. Lowis [1960] | | | | | | | | | | |
| Agrimonia gryposepala Wallr. | Agrimony | Dry to wet woods, often where disturbed, for example along roads and trails, pastures; also marshy ground, for example alkaline meadows. | ····· | | | * | ····· | | | ····· | |
| Agrimonia pubescens | Agrimony | Dry to mesic woods, often where disturbed, | ····· | ····· | | > | ····· | | | ····· | |

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| DSACEAE OSE FAMILY (continued) | | | | | | | | |
| Amelanchier arborea (Michx. f.) Fern. (incl. A. laevis Wieg.) | Juneberry | Mainly drier woods and their borders, also swamps, shorelines, rocky places. | | * | * | | | \$ 3 |
| Amelanchier humilis Wieg. (incl. A. spicata (Lam.) K. Koch & A. stolonifera Wieg.) | Juneberry | Mainly drier woods and sandy plains, but also low ground, for example marshy creek bottoms. | ····· | * | * | * | ······································ | ♦ 3 |
| Amelanchier sanguinea (Pursh) DC. | Juneberry | Mainly drier woods, including their borders, also swampy ground. | * | * | * | * | ••••••• | > 3 |
| Aronia prunifolia (Marsh.) Rehder | Chokeberry | Sedge meadows, sandy meadows, low thickets, low sandy woods, Tamarack swamps, also quartzite, sandstone, and dolomite outcrops, relatively dry woods. The nomenclature of this species follows Voss (1985:377-78). | | * | | ····· | | → 4 |
| Crataegus calpodendron (Ehrh.) Medic. | Hawthorn | Mainly alluvial woods. | * | | | * | | ⇒ 2 |
| Crataegus chrysocarpa Ashe | Hawthorn | Mainly borders of woods, clearings, pastures. WIS. | | ••••• | * | ••••• | ••••• | → 1 |
| Crataegus crus-galli L. | Cockspur Thorn | Generally low ground, including river bottoms, ditch banks. WIS. | | ••••• | | ••••• | | * 1 |
| Crataegus holmesiana Ashe | Hawthorn | Recorded only from Devil's Lake State Park, including Parfrey's Glen. WIS. | | * | | | •••••• | † 1 |
| Crataegus macrosperma Ashe (C. roanensis Ashe) | Hawthorn | Mainly drier woods, including their borders. | * | ••••• | | * | ••••• | |
| Crataegus pedicellata Sarg. | Hawthorn | Mainly lowland woods, low pastures. | · | * | | * | | * 2 |
| Crataegus pennsylvanica Ashe | Hawthorn | Mainly lowland woods, low pastures. MIL. | • • • • • • | | | * | | † 1 |
| Crataegus pruinosa (Wendl.) K. Koch | Hawthorn | Mainly drier woods, pastures. | * | • | * | | • | \$ 2 |
| Crataegus punctata Jacq. | Dotted Hawthorn | Mainly lowland woods. | * | • | * | • • • • • • | • | \$ 2 |
| Crataegus schuettei Ashe | Hawthorn | Wooded areas. MIL. | * | • | ••••• | | • | † 1 |
| Crataegus succulenta Link (C. macracantha Lodd.) | Hawthorn | Wooded areas, including openings and borders, also fields, pastures. | * | , | * | * | | \$ 2 |
| Fragaria vesca L. | Woodland Strawberry | Dry to wet woods, including edges and openings. | \$ | * | * | \$ | | ♦ 3 |
| Fragaria virginiana Mill. | Wild Strawberry | Widespread in virtually all habitats except the very wettest. | \$ | * | * | \$ | | ♦ 5 |
| Geum aleppicum Jacq. | Avens | Sedge meadows, alkaline meadows, loamy prairies, marshy thickets along creeks, also wetter places in deciduous woods. | * | * | * | * | | ♦ 3 |
| Geum canadense Jacq. | White Avens | Dry to wet woods, in shade or sun, also marshy ground. | * | * | * | * | •••••• | \$ 4 |
| Geum laciniatum Murray | Avens | Mainly low meadows, including weedy sites. | * | * | * | * | | \$ 3 |

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| | | - | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co AC |
| ACEAE SE FAMILY (continued) | | | | | | | | | | |
| Geum rivale L. | Purple Avens | Swampy places, for example Black Ash- Alder thickets (Hartley 1962:779, 780, 126). Known only from the swamp on the Wisconsin Society for Ornithology's Honey Creek property. WIS. | | | | | ••••• | | • | ↑ 1 |
| Geum triflorum Pursh | Prairie Smoke | Dry prairies and dry oak woods, mainly sandy soil, also loamy prairies. | * | | | * | * | | • • • • • • • • • | \$ 3 |
| Malus ioensis (Wood) Britt. (Pyrus ioensis (Wood) Bailey) | Wild Crab | Drier woods, especially their edges and openings, hedgerows, dry prairies. | . | | | ·····◆ | . | | ••••• | ♦ 3 |
| Malus sylvestris (L.) Mill. (Pyrus malus L.) | Apple | Persisting from plantings in orchards and by abandoned homesteads; also roadsides, railroad embankments, weedy fields, open woods (mainly via humans discarding cores?). | * | * | | * | * | | | * 3 |
| Physocarpus opulifolius L.) Maxim. | Ninebark | Fens, open cliffs and rocky hill prairies, gravelly roadsides in deciduous woods, Alder thickets, marshy shores, mucky stream bottoms in wooded ravines, low sandy woods, sandy meadows. | ····· | * | | * | ····· | | • • • • • • • • | |
| Potentilla argentea L. | Silvery Cinquefoil | Dry disturbed places, including railroad ballast, roadsides, bare sand, pastures, weedy fields, pavement rock outcrops; may invade dry sandy prairies and pastured woods. | * | * | | * | * | | - | |
| Potentilla arguta Pursh | Tall Cinquefoil | Dry prairies in a variety of soils, quartzite and rhyolite glades. | * | \$ | | * | * | | | |
| Potentilla fruticosa L. | Shrubby Cinquefoil | Fens and marshy thickets in Delton and Fairfield Townships. Often grown as an ornamental. Listed in Kartesz (1994, 1:525) as Pentaphylloides floribunda (Pursh) A. Löve. WIS, MIL, KL. | | | | | * | | | ♦ 1 |
| Potentilla norvegica L. | Rough Cinquefoil | Dry places, usually disturbed, including weedy fields, roadsides, railroad grades, also moist ground, for example lowland pastures. | * | * | | * | * | | | * 3 |
| Potentilla palustris (L.) Scop. | Marsh Cinquefoil | Sedge meadows, marshy places in low sandy woods, Tamarack swamps. Listed for the Baraboo Hills on the basis of a R.H. True 1885 collection labelled "Baraboo"; a H.P. Hansen 1934 collection, also labelled "Baraboo," probably came from the Lower Narrows swamp, outside the Hills (Hansen 1937). This taxon is listed in Kartesz (1994, 1:515) as Comarum palustre L. | * | | | | * | | | |
| ⁿ Potentilla recta L. | Rough-fruited Cinquefoil | Roadsides, railroad gravel, weedy fields, disturbed prairies, pastures, dry waste ground, dry open woods. | * | * | | * | | | | |
| Potentilla simplex Michx. | Old-field Cinquefoil | Weedy fields, sandy meadows, loamy prairies, sandstone cliffs and associated prairies, dry oak woods, low sandy woods. | * | * | | ········ ♦ | \$ | | | |

Locality and Abundance Code

| | | | | Locality | and | Abu | ndance Coc | le |
|--|-----------------------------|--|-----------|-----------------|----------|----------|-------------------|-------------|
| | | | ВН | DL DLSP Only | WU | СР | WR C Only Only | Sk Co AC |
| OSACEAE OSE FAMILY (continued) | | | | | | | | |
| Potentilla tridentata Ait. | Three-toothed Cinquefoil | Open sandstone ledges, open sandy ground. Listed in Kartesz (1994, 1:536) as <i>Sibbaldiopsis tridentata</i> (Ait.) Rydb. WIS, MIL, KL. | •••• | | * | * | | → 1 |
| Prunus americana Marsh. | Wild Plum | Roadsides, hedgerows, old fields, borders of woods, open woods, marshy streamsides; typically forming thickets. | * | | * | * | | → 4 |
| Prunus nigra Ait. | Canada Plum | Dry to moist deciduous woods, including their borders, also old fields, low meadows; typically growing as scattered individuals. | * | \$ | * | •••• | | \$ 3 |
| Prunus pensylvanica L. f. | Pin or Fire Cherry | Dry woods, including their borders, also sandy plains, dry limey bluffs, quartzite boulder fields, lowland woods. | * | * | * | * | | * 4 |
| Prunus pumila L. | Sand Cherry | Sandy plains, dunes, beach ridges, also dry limey bluffs; rarely on quartzite. | * | •••••• | * | * | | \$ 2 |
| Prunus serotina Ehrh. | Wild Black Cherry | Usually dry but also damp deciduous and mixed woods, forest borders, hedgerows, weedy fields, Red Cedar glades, low sandy woods, Hemlock stands, Tamarack swamps, boggy Red Maple thickets. Often a significant forest species. | ······ | * | \$ | ÷ | | ♦ 5 |
| Prunus virginiana L. | Choke Cherry | Mainly borders of deciduous and mixed woods, hedgerows, roadsides, weedy fields, dry open woods; also Hemlock stands, low sandy woods, Tamarack swamps, Alder thickets. Generally not a significant forest species. | * | * | * | * | | ♦ 5 |
| Rosa arkansana Porter | Prairie Rose | Dry limey prairies, gravelly roadsides. In the Baraboo Hills known only from the west end of the South Range. | * | | * | | | ♦ 2 |
| Rosa blanda Ait. | Meadow Rose | River banks, edges of woods, fields; may be more common and widespread than indicated. Leopold Reserve Herbarium. | • • • • • | | | | | \$ 1 |
| Rosa carolina L. | Pasture Rose | Dry woods, including their borders, also dry prairies, dry weedy fields, fencerows, roadsides, railroad embankments. | ····· | * | * | * | ••••• | ♦ 4 |
| ⁿ Rosa multiflora Murray | Multiflora Rose | Persisting and spreading from plantings for erosion control and hedgerows. Mainly edges, for example hedges, borders of woods, roadsides; usually in dry places but also in low ground. | * | * | * | * | | ⋄ 3 |
| Rosa palustris Marsh. | Swamp Rose | Low meadows, open boggy places in low sandy woods, shores of ponds. In Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | | * | * | ······ | •••••• | → 3 |
| Rubus allegheniensis Porter | Common Blackberry | Characteristic of woods recently disturbed, for example by logging or windthrow, mainly uplands but also lowlands; persisting for some time after the initial disturbance. Also hedgerows, roadsides, weedy fields; occasionally in wet ground, including Alder thickets, Leather-leaf bogs. | ···· | * | * | * | | ♦ 5 |

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| SACEAE SE FAMILY (continued) | | | | | | | | | |
| Rubus alumnus Bailey | • | Weedy fields. WIS. | | * | | | • | * | 1 |
| Rubus flagellaris Willd. (inc. <i>R. plicatifolius</i> Blanch.) | Northern Dewberry | Sandy plains, dry rocky prairies and sandy meadows, low sandy woods, low thickets; mainly in drier sites than the next species. | | * | ••••• | ····· | | ···· | 3 |
| Rubus hispidus L. | Swamp Dewberry | Tamarack swamps, low sandy woods, low thickets and meadows; also in high ground, for example dry sandy woods, but mainly in wetter sites than the previous species. Both dewberries are found mainly in the Central Plain. | * | | | * | | * | 3 |
| Rubus idaeus L. incl. R. strigosus Michx.) | Red Raspberry | Dry to moist, mainly disturbed woods, weedy prairies and fields, open rocky cliffs, also wet ground, including low thickets, Tamarack swamps. | * | ♦ | * | * | | * | 5 |
| Rubus occidentalis L. | Black Raspberry | Dry to moist, mainly disturbed woods, especially their borders, also hedgerows, roadsides, railroad embankments, low thickets, Tamarack swamps, sedge meadows. | * | * | * | | | * | 5 |
| Rubus pergratus Blanch. | | A collection from forest edge. WIS. | | * | | | | * | 1 |
| Rubus pubescens Raf. | Dwarf Raspberry | Sandy meadows, sedge meadows, alkaline meadows, Alder thickets, low coniferous woods; mainly in the Central Plain. | ÷ | * | | | | * | 3 |
| Rubus rosa Bailey | | Known from 2 collections. WIS. | | | • • • • • • • | • • • • • • | • | * | 1 |
| Rubus setosus Bigelow (incl. R. stipulatus Bailey) | | A collection from the LaValle area. MIL. | | | * | ••••• | ••••• | * | 1 |
| n Sorbaria sorbifolia (L.) A. Br. | False Spiraea | Persisting and spreading from cultivation. WIS. | * | * | | ••••• | | * | 1 |
| Sorbus americana Marsh. | Mountain-ash | Known only from the Wisconsin Dells area; no habitat data. Harvard University Herbarium. | | | | ····· | ••••• | * | 1 |
| ⁿ Sorbus aucuparia L. | European Mountain- ash, Rowan | Sandstone cliffs in the Wisconsin Dells area. KL. | | | | * | • | * | 1 |
| Sorbus decora (Sarg.) K.C. Schneid. | Mountain-ash | Sandstone cliffs, especially in cooler sites, also mixed woods on quartzite talus, especially openings and edges. | ♦ | * | * | ······· | | * | 2 |
| Spiraea alba Du Roi | Meadowsweet | Low meadows, sandy meadows, cat-tail marshes, loamy prairies, Alder thickets, Tamarack swamps, low sandy woods. | * | * | | * | | * | 4 |
| Spiraea tomentosa L. | Hardhack, Steeplebush | Sedge meadows, sandy meadows, Alder thickets, Tamarack swamps, low sandy woods, sandy borders of ponds and lakes, open sandstone cliffs along rivers; mainly in the Central Plain. Ranging into more acidic habitats than S. alba. | * | * | * | ************************************** | | * | 3 |

Locality and Abundance Code

| | Locality | and. | Abu | ndanc | e Cod | e | |
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| BH | DLSP Only | WU | CP | Only | Only | Co | AC |

| ADDER FAMILY 38, 1957, Trans. WASAL 4 | 46:91-104 | | | | | | | | | |
|---|---------------------------|--|----------|-----------|-------------|----------|----------|----------|-----------|-----|
| Cephalanthus occidentalis L. | Buttonbush | Low meadows, margins of sloughs and ponds, and wet woods along the Wisconsin River and up the Baraboo River to at least Section 19 in T12N, R9E; also the shoreline of Devil's Lake. | | * | . | | * | * | \$ | |
| Galium aparine L. | Cleavers, Goosegrass | Deciduous woods, mainly mesic but also relatively dry and relatively wet;sometimes weedy, for example disturbed prairies, low meadows. | * | * | | * | * | | ¢ | |
| Galium asprellum Michx. | Rough Bedstraw | Wet woods, low sandy woods, Tamarack swamps, Alder thickets, sedge meadows, alkaline meadows. | * | \$ | | | * | | \$ | |
| Galium boreale L. | Northern Bedstraw | Loamy prairies, low meadows, fens, deciduous swamps, also dry woods. | * | * | • • • • • • | * | * | | ¢ | • • |
| Galium circaezans Michx. | Wild Licorice | Mainly dry woods and associated hill prairies, also mesic woods; often where limey. | ······ | * | | | * | | * | |
| Galium concinnum T. & G. | Shining Bedstraw | Mainly in relatively dry woods, including associated glades, also mesic woods, Hemlock stands, Alder thickets. | * | * | | | * | | \$ | |
| Galium labradoricum (Wieg.) Wieg. | | Fens, alkaline meadows, and Tamarack swamps in Fairfield and Merrimac Townships. KL. | | | | | ♦ | | \$ | |
| Galium lanceolatum Torr. | Wild Licorice | Deciduous and mixed woods, dry to moist, mainly moist; local, like <i>G. circaezans</i> . | * | * | | | | | | |
| Galium obtusum Bigelow | | Low meadows, Alder thickets, loamy prairies, marshy sloughs; in the Baraboo Hills known only from Honey Creek Valley. | * | | | ♦ | * | | * | |
| Galium tinctorium L. | | Sedge meadows, alkaline meadows, fens, cat-tail marshes, Alder thickets, Tamarack swamps, low sandy woods. | ♦ | * | | ♦ | | | \$ | |
| Galium trifidum L. | Small Bedstraw | Sedge meadows, alkaline meadows, marshy creek beds. | * | * | | | * | | \$ | |
| Galium triflorum Michx. | Sweet-scented Bedstraw | Mainly dry-mesic and mesic woods, also low sandy woods, deciduous swamps, riparian thickets. | * | * | • • • • • | * | * | | \$ | |
| SC Houstonia caerulea L. (Hedyotis caerulea (L.) Hook.) | Bluets | Sandy meadows; known only from Delton Township. MIL, KL. | | | | | * | • | * | |
| Houstonia longifolia Gaertn. (Hedyotis longifolia (Gaertn.) Hook.) | | Dry open sandstone and conglomerate outcrops and associated prairies, quartzite and rhyolite glades, sandy meadows. | * | | | * | * | | * | |
| Mitchella repens L. | Partridge-berry | Dry to mainly moist, often sandy deciduous and mixed woods, low sandy woods, Hemlock stands, Tamarack swamps. | * | * | ••••• | * | * | | \$ | • |

| | | | | Locality | and A | Abuı | ndanc | e Cod | le |
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| UTACEAE CITRUS FAMILY PR 21, 1933, Trans. WASAL | 28:175-77 | | | | | | | | |
| Zanthoxylum americanum Mill. | Prickly-ash | Deciduous woods, dry to wet but usually wet, riparian swamps, also Hemlock stands. Judged to be "common" on Wisconsin River islands in the early 1900s (Thwaites 1907:250). | * | * | * | * | | ••••• | |
| ALICACEAE VILLOW FAMILY PR 51, 1964, Trans. WASAL | 53:217-72 | | | | | | | | |
| ⁿ Populus alba L. | White or Silver Poplar | Escaping to fields and roadsides. | ······ | | | ········ | ••••• | | |
| Populus balsamifera L. | Balsam Poplar | A grove in Mirror Lake State Park; native or planted? KL. | | | | * | | | † 1 |
| Populus deltoides Marsh. | Cottonwood | Mainly riparian swamps, river banks, sand dunes, lake shores, Alder thickets, also low damp places in deciduous woods and low weedy fields. | * | * | * | * | | | ♦ 5 |
| Populus grandidentata Michx. | Big-toothed Aspen | Dry and mesic woods, rarely low sandy woods and sedge meadows; typically pioneering after disturbance such as logging or windthrow, and persisting as the forest matures. | ····· | * | * | | | | ·········· 5 |
| Populus tremuloides Michx. | Quaking Aspen | Dry and mesic woods, dry sandy prairies, also deciduous swamps, Tamarack swamps, low meadows, sandy meadows; typically pioneering after disturbance, like Big-toothed Aspen. | . | * | ······ | ····· | | | |
| ⁿ Salix alba L. | White Willow | By abandoned farmsteads, especially along streams. KL. | • • • • • • | * | | | ••••• | | ↑ 1 |
| Salix amygdaloides Anderss. | Peach-leaved Willow | Lake shores and stream banks. KL. | | * | | | | • • • • • • • | * 1 |
| Salix bebbiana Sarg. | Bebb's Willow | Low meadows, alkaline meadows, low thickets, marshy lake shores and stream beds, damp roadsides. | ····· | * | | * | ••••• | | |
| Salix candida Willd. | Sage-leaved Willow | Alkaline meadows, damp gravelly roadsides. In the Central Plain known only from Merrimac Township. KL. | | * | | | | | ♦ 1 |
| Salix discolor Muhl. | Pussy Willow | Sedge meadows, low thickets, marshy shores, stream banks, ditches, also prairies. | | * | * | * | | • • • • • • • | ♦ 4 |
| Salix eriocephala Michx. (S. cordata Muhl., not Michx.; S. rigida Muhl.) | | Sedge meadows, low thickets, marshy shores, stream banks. | | ÷ | ······· | | | • • • • • • • | |
| Salix exigua Nutt. (S. interior Rowlee) | Sandbar Willow | Stream and river shores and banks, dunes, lake shores; forming large dense thickets. | | ♦ | | | • • • • • • • | | * 3 |
| ⁿ Salix fragilis L. | Crack Willow | banks. WIS. | | | | | | | ♦ 1 |
| Salix humilis Marsh. | Prairie or Upland Willow | Dry sandy or limey prairies, cliffs and | | • | \$ | | | | * 4 |
| Salix lucida Muhl. | Shining Willow | Low wet ground, including sedge meadows, marshy sites. | | * | • • • • • • • • | * | | | ⇒ 2 |

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| SALICACEAE WILLOW FAMILY (continu | ued) | | | | | | | | | |
| Salix nigra Marsh. | Black Willow | Wisconsin River floodplain and up the Baraboo River to at least Section 24 in T12N, R8E, also the Devil's Lake shoreline and marshy kettles. | | ········ | ·········◆ | ⊹ | * | ♦ | | ⇒ 3 |
| Salix pedicellaris Pursh | Bog Willow | Sphagnous sedge meadows in Dellona and Delton Townships. KL. | • • • • • • | ••••• | •••• | | * | | | > 1 |
| Salix petiolaris Sm. (S. gracilis Anderss.) | Slender Willow | Marshy ground, including low meadows, alkaline meadows, low thickets. | * | | | * | * | | | \$ 4 |
| Salix pyrifolia Anderss. | Balsam Willow | Sphagnous sedge meadows and Tamarack swamps in Dellona and Delton Townships. | • • • • • • | ••••• | ••••• | • • • • • • • | * | | • • • • • • • | ⇒ 2 |
| SANTALACEAE SANDALWOOD FAMILY | | | | | | | | | | |
| Comandra umbellata (L.) Nutt. (C. richardsiana Fern.) | Bastard-toadflax | Dry prairies in a variety of soils, quartzite and rhyolite glades, loamy prairies, sandy meadows, dry sandy woods. | * | | | * | * | | | * 4 |
| SARRACENIACEAE PITCHER-PLANT FAMILY PR 18, 1932, Trans. WASAL | | | | | | | | | | |
| Sarracenia purpurea L. | Pitcher-plant | Represented by an 1886 collection labelled "Baraboo." Formerly in a marshy area in southern Prairie du Sac Township (Lueders 1895:512). WIS. | * | ••••• | | | ·····◆ | | • • • • • • | → 0 |
| SAXIFRAGACEAE (incl. G. SAXIFRAGE FAMILY PR 19, 1932, Trans. WASAL | | | | | | | | | | |
| Chrysosplenium americanum Hook. | Golden Saxifrage | Cold-water creeks and springs, Alder thickets; in Devil's Lake State Park known only from Parfrey's Glen. | * | * | | | \$ | | | \$ 3 |
| Heuchera richardsonii R. Br. | Alum-root | Dry prairies in a variety of soils, quartzite and rhyolite glades, sandstone cliffs and boulders, dry sandy woods, Red Cedar glades, loamy prairies. The closely related <i>H. americana</i> L. apparently does not occur in Wisconsin. | | ······· | | . | * | | | → 4 |
| Mitella diphylla L. | Bishop's-cap | Mesic deciduous and mixed woods, often in wet pockets and stream valleys, also Hemlock stands. | * | * | | * | | | ••••• | \$ 3 |
| Parnassia glauca Raf. | Grass-of-Parnassus | Leech Creek fen in Fairfield Township and an alkaline meadow in Merrimac Township. Formerly in a marshy area in southern Prairie du Sac Township (Lueders 1895:512). KL. | | | | | ♦ | | | → 1 |
| ⁿ Philadelphus . | Mock-orange | Persisting (and spreading?) from ornamental plantings. | | * | | * | * | | ••••• | * 2 |
| coronarius L | | 411 411 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | ······ | ♦ | | | · · · · · · · · · · · · · · · · · · · | | • • • • • • | \$ 3 |
| coronarius L Ribes americanum Mill. | American Black Currant | Alder thickets and assoicated sedge meadows, Tamarack swamps, low sandy woods, deciduous swamps. | • | • | | • | • | | | Ψ 3 |

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| XIFRAGACEAE AXIFRAGE FAMILY (cont | tinued) | | | | | | | | | | |
| Ribes cynosbati L. | Prickly Gooseberry | Dry to mesic woods, low sandy woods, Hemlock stands, Red Cedar glades; may be weedy. | * | ♦ | | ······ | | | | ···· | •• |
| Ribes glandulosum Grauer | Skunk Currant | A 1942 collection from the south end of the west bluff in Devil's Lake State Park (T.F. Kouba to K.I. Lange, in letter 22 July 1978). WIS. | | * | | | •••• | | | ····· | •• |
| Ribes hirtellum Michx. | Hairy-stem Gooseberry | Tamarack swamps, Alder thickets including their borders, alkaline meadows, mesic woods. | * | . | • • • • • • | * | | • • • • • • | • • • • • • • | * | •• |
| Ribes missouriense Nutt. | Missouri Gooseberry | Dry woods, also Tamarack swamps, Alder thickets, alkaline meadows; may be weedy. | * | * | | ······ | | | | ····· | ••• |
| ⁿ Ribes rubrum L. (R. sativum Syme) | Red Currant | Cultivated for its fruit; escaping to fields and woods. WIS. | * | * | | | | | | * | • • |
| Saxifraga pensylvanica L. | Swamp Saxifrage | Sedge meadows, alkaline meadows and fens, loamy prairies, Alder thickets, seepy mucky areas in deciduous and mixed woods. | * | . | • • • • • • | * | | • • • • • • | • • • • • • • | * | •• |
| SC Sullivantia sullivantii (Torr. and Gray) Britt. (S. renifolia Rosend.) | Sullivantia | Sandstone outcrops, usually shaded and moist. Virtually confined to the Driftless Area (one station—Durward's Glen in the Baraboo Hills—in glaciated territory). | * | | | ······ | * | | • • • • • • • | * | ••• |
| ROPHULARIACEAE GWORT FAMILY 3 36, 1951, Trans. WASAL Agalinis aspera (Dougl.) Britt. (Gerardia aspera Dougl.) | 40(2):111-38; Crosswhite Gerardia | [1969] Dry limey prairies; rarely quartzite glades. | | | | \$ | | | | ····· | |
| T Agalinis gattingeri (Small) Small (Gerardia gattingeri Small) | Gerardia | Dry prairies on sandstone and limey sandstone, quartzite glades. In 1987 the population at one glade, the south end of the east bluff in Devil's Lake State Park, was estimated at more than 500 plants, whereas only 8 plants could be found at another glade near Rock Springs in the Baraboo Hills. Occurs just outside the study area on open sandstone ledges along the Wisconsin River in the Upper Dells (Wisconsin Department of Natural Resources 1997:17). | * | * | | * | | | | * | • |
| Agalinis purpurea (L.) Pennell (Gerardia purpurea L.) | Gerardia | Moist sandy swales and ditches, open wet sand. WIS, KL. | | | | ♦ | | | | * | |
| Agalinis tenuifolia (Vahl) Raf. (Gerardia tenuifolia Vahl) | Gerardia | Marshy shores, open wet sand, sandy ditches, alkaline meadows and fens, sedge meadows, sandy meadows, sandstone cliffs along rivers. | | * | | | ······ | • • • • • • • | | ···· | •• |
| Aureolaria grandiflora (Benth.) Pennell (Gerardia grandiflora Benth.) | False Foxglove | Drier oak woods, including their borders; appears to advance with oaks into adjoining dry prairies and glades. | * | * | | * | * | | | * | |
| | False Foxglove | Drier oak woods and associated dry | | ······ | | ······ | ······ | | | ····· | • • |

| | | | | Loc | cality | and | Abu | ndano | e Coc | le | |
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| CDODINU ADIACEAE | | | | | | | | | | | |
| CROPHULARIACEAE FIGWORT FAMILY (continu | ued) | | | | | | | | | | |
| Castilleja coccinea (L.) Spreng. | Scarlet Painted-cup | Sandy meadows, dry to moist weedy fields, openings in upland deciduous woods on quartzite and sandstone. | * | * | | | * | • • • • • • • | | | 3 |
| Castilleja sessiliflora Pursh | Downy Painted-cup | Dry limey prairies. | | •••••• | | | * | | · · · · · · · · | \$ | 2 |
| ⁿ Chaenorrhinum minus (L.) Lange | Dwarf-snapdragon | Dry weedy sites, especially railroad ballast, also pavement. A premier example of a railroad weed (Arnold 1981a, 1981b). | | * | | * | * | • | | \$ | 2 |
| Chelone glabra L. | Turtlehead | Sedge meadows, alkaline meadows, Alder thickets, Tamarack swamps, low sandy woods. | * | | • • • • • • • | * | * | • • • • • • • | | \$ | 3 |
| Gratiola neglecta Torr. | Hedge-hyssop | Open wet ground, including sandy shores, muddy stream sides, seepy areas. | * | * | | * | * | • • • • • • • | • • • • • • • | \$ | 3 |
| Linaria canadensis (L.) Dum. Cours. | Old-field Toadflax | Dry open sand, stable and shifting; in a number of areas but not locally numerous, like <i>Androsace</i> . Listed in Kartesz (1994, 1:581) as <i>Nuttallanthus canadensis</i> (L.) D.A. Sutton. | | | | * | * | | | * | 3 |
| ⁿ Linaria dalmatica (L.) Mill. (L. macedonica Griseb.) | Dalmatian Toadflax | Dry weedy places. WIS. | * | ••••• | | | | | | \$ | 1 |
| ⁿ Linaria vulgaris Mill. | Butter-and-eggs | Dry weedy areas in a variety of soils and rock types; once established, may persist in shade. | * | ········· | | ···· | * | | | \$ | 5 |
| Lindernia dubia (L.) Pennell (incl. L. anagallidea (Michx.) Pennell) | False Pimpernel | Open wet ground, including sandbars, muddy banks and shores, marshy hollows such as glacial kettles. | * | * | | * | * | | | \$ | 3 |
| Melampyrum lineare Desr. | Cow-wheat | Low sandy woods, including their borders; Delton Township only, KL. | | | | | | | | \$ | 1 |
| Mimulus glabratus Kunth var. jamesii (Benth.) Gray (M. geyeri Torr.; M. glabratus var. fremontii (Benth.) Grant) | Monkey Flower | Known only from Leech Creek fen in Fairfield Township, and the sandy bed of a drainage of Mirror Lake in Delton Township. KL. | | | | | * | | | * | 1 |
| Mimulus ringens L. | Monkey Flower | Marshy shores, sandbars, sedge meadows, alkaline meadows and fens, Alder thickets, Tamarack swamps. | * | * | • • • • • • | * | * | • • • • • • • | ••••• | * | 3 |
| Pedicularis canadensis L. | Common Lousewort | Dry prairies in a variety of soils, quartzite glades, dry open woods, sandy meadows. | * | | • • • • • • • | * | * | | •••••• | \$ | 3 |
| Pedicularis lanceolata Michx. | | Mainly fens and alkaline meadows, also Alder thickets, Tamarack swamps. | * | * | | * | \$ | | ••••• | * | 3 |
| Penstemon digitalis Sims | Beard-tongue | Dry sandy prairies, dry open woods. Sometimes locally abundant, for example at least a half-million plants at the Lake Delton airstrip in 1963 (Crosswhite [1969]). | * | * | | * | * | | | * | 2 |

| | | | | Lo | cality | and . | Abui | ndanc | e Cod | e | |
|--|---------------------------|--|----------|---------------|---|--|-----------|---------------|-----------|-----------|-----|
| | · | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co | A |
| OPHULARIACEAE GWORT FAMILY (contin | ued) | | | | | | | | | | |
| Penstemon gracilis Nutt. (incl. var. wisconsinensis (Pennell) Fassett) | Beard-tongue | Dry sandy prairies, Jack Pine-oak woods, sandy roadsides, limey hill prairies and Red Cedar glades, loamy prairies. The locality for the University of Wisconsin specimen, labelled "Elephant Back, Devil's Lake, Sauk Co., Wisconsin" and collected in 1926, is uncertain, but may be the hill so named in Adams County, Wisconsin, north of Wisconsin Dells. | * | | | ************************************** | ♦ | | | ··• | |
| Penstemon grandiflorus Nutt. (P. bradburii Pursh) | Beard-tongue | Collected along the railroad track between Devil's Lake and Merrimac in 1903 (MIL), and a sight record for the Ferry Bluff area along the Wisconsin River (Hartley 1962: 839, 127). A western species; adventive? | | | | * | * | | | * | |
| SC Penstemon pallidus Small | Beard-tongue | Dry sandy soil, usually with Jack Pines, also dry limey prairies; known only from Spring Green Township. WIS. | | | | | | | | * | |
| Scrophularia lanceolata Pursh | Figwort | Dry prairies and dry woods, often where limey, also dry, open rocky places, railroad beds. | | | | | | • • • • • • • | | * | •• |
| Scrophularia marilandica L. | Figwort | Moist woods, especially their borders, Hemlock stands, Alder thickets, alkaline meadows. | * | | • • • • • • • • | * | * | | | * | •• |
| ⁿ Verbascum blattaria L. | Moth Mullein | Weedy fields, including pastures; may invade dry prairie. | * | | | * | * | | | * | • • |
| ⁿ Verbascum phlomoides L. | | Weedy along roads. WIS. | * | | | * | | • • • • • • | | * | • • |
| ⁿ Verbascum thapsus L. | Common Mullein | Weedy fields, disturbed prairies, pastures, degraded woods, roadsides and railroad beds; sometimes in damp ground. An early arrival; already in Wisconsin Dells by 1872 (Lange 1980b; Figure 41). | * | * | | * | * | • • • • • • | | * | •• |
| Veronica americana (Raf.) Benth. | American Brooklime | Known only from an 1887 collection labelled "Baraboo." WIS. | ⊹ | | | | | | | * | •• |
| Veronica anagallis- aquatica L. (Veronica catenata Pennell) | Water Speedwell | Sloughs along the Wisconsin River, alkaline creeks. WIS, KL. | | | • | * | * | | | | •• |
| Veronica arvensis L. | Corn Speedwell | Dry to moist woods, rock outcrops, pastures. | | | | | . | | | ····· | |
| ⁿ Veronica officinalis L. | Common Speedwell | Weedy, for example along wooded trails. KL. | | | | | * | | | | • • |
| Veronica peregrina L. | Purslane Speedwell | roadsides | | * | | * | | | | * | • • |
| Veronica scutellata L. | Marsh Speedwell | Low meadows, wet sandy ground, pond borders. | | • • • • • • • | • • • • • • • | * | * | * | | \$ | |
| ⁿ Veronica serpyllifolia L. | Thyme-leaved Speedwell | Disturbed areas, especially where moist, for example stream banks, trails. | · | • | • • • • • • • | · | · | | | * | • |
| ⁿ Veronica verna L. | | Known only from a weedy quartzite outcrop in Caledonia. WIS. | * | | | | | | * | | |
| Veronicastrum virginicum (L.) Farw. | Culver's-root | Sunny and shady places, wet or dry, often where limey; sites include alkaline meadows, dry limey prairies and associated woods, loamy prairies. | * | * | | * | * | | | * | |

| | | | Locality and Abundance Code | | | | | | |
|--|---------------------|---|-----------------------------|----------|---------------|----------|----------|-------------------|-------------|
| | | | ВН | DLSP | DL Only | WU | СР | WR C Only Only | Sk Co AC |
| SOLANACEAE NIGHTSHADE FAMILY PR 31, 1943, Trans. WASAL | .35:105-12 | | | | | | | | |
| Physalis heterophylla Nees | Ground-cherry | Dry sandy and limey ground, including prairies; may be weedy. | | ······ | • • • • • • • | | | | ♦ 3 |
| Physalis virginiana Mill. | Ground-cherry | Dry sandy and limey ground, including prairies; may be weedy. | ····· | * | | * | * | | \$ 3 |
| ^a Solanum carolinense L. | Horse-nettle | Weedy fields, roadsides, railroad beds; native to the southeastern United States. | * | | | ••••• | * | | ♦ 2 |
| ⁿ Solanum dulcamara L. | Deadly Nightshade | Waste ground, fencerows, rock outcrops, weedy fields; also widespread in lowlands, including Tamarack swamps, deciduous swamps, sedge meadows, cat-tail marshes, low thickets, low sandy woods. | . | * | | * | | ••••• | ♦ 5 |
| Solanum ptychanthum Dunal (incl. plants previously referred to S. nigrum L.; after Voss 1996:191-92) | Black Nightshade | Dry to damp woods, Hemlock stands, rock outcrops and associated prairies; sites may be weedy, for example railroad embankments. | | | | | * | | ♦ 3 |
| ^a Solanum rostratum Dunal (S. cornutum of authors, not Lam.) | Buffalo-bur | Open disturbed ground, including landfills, barnyards. First reported for the study area in 1937 and suspected of being transported with alfalfa seed (Lange 1980b); native west of the Great Lakes. WIS, KL. | | | • • • • • • • | | ••••• | | → 1 |
| STAPHYLEACEAE BLADDERNUT FAMILY | | | | | | | | | |
| Staphylea trifolia L. | Bladdernut | Deciduous and mixed woods, including borders, Hemlock stands; often in lowland sites, for example stream valleys and gorges, river banks. | . | ···· | | ········ | ······ | | \$ 3 |
| THYMELAEACEAE LEATHERWOOD FAMILY PR 47, 1962, Trans. WASAL | | | | | | | | | |
| Dirca palustris L. | Wicopy, Leatherwood | Deciduous, especially mesic woods, including their borders. | * | | ••••• | ···· | ••••• | | * 3 |
| TILIACEAE BASSWOOD FAMILY PR 60, 1970, Trans. WASAL | 58:301-06 | | | | | | | | |
| Tilia americana L. | Basswood, Linden | Mainly rich upland deciduous forests, with Sugar Maple and oaks, also drier woods, Hemlock stands; sometimes deciduous swamps. | * | * | | | * | | \$ 5 |
| ULMACEAE ELM FAMILY PR 23, 1933, Trans. WASAL | 28:191-93 | | | | | | | | |
| Celtis occidentalis L. | Hackberry | Dry to moist woods, deciduous swamps, marshy sloughs, wooded stream valleys and gorges, Hemlock stands; often where limey. | * | . | | * | | | ♦ 4 |

| | | | Locality and Abundance Code | | | | | | | .e |
|--|--------------------------|--|-----------------------------|---|------------|----------|-------------|-----------------|---------------|---------------|
| | · . | | вн | DLSP | DL Only | WU | CP | WR Only | C Only | Sk Co A |
| LMACEAE ELM FAMILY (continued) | | | | | | | | | | |
| Ulmus americana L. | American or White Elm | Mainly bottomlands, including deciduous swamps, marshy sloughs, low sandy woods, Tamarack swamps, low thickets, sedge meadows and alkaline meadows, stream valleys and gorges; also upland deciduous forest, dry to moist. | * | . | | * | > | | | ♦ 5 |
| ⁿ Ulmus pumila L. | Siberian or Dwarf Elm | Spreading from plantings into waste ground, roadsides, railroad beds, pavement. | | | | | * | | ••••• | |
| Ulmus rubra Muhl. (U. fulva Michx.) | Slippery or Red Elm | Deciduous forest, dry to moist, also deciduous swamps but more in uplands than <i>U. americana</i> . | * | * | | * | \$ | | ••••• | ♦ 5 |
| RTICACEAE NETTLE FAMILY PR 23, 1933, Trans. WASAL | . 28:194-96 | | | | | | | | | |
| Boehmeria cylindrica (L.) Sw. | False Nettle | Deciduous swamps, marshy ground, low sandy woods, Tamarack swamps, Alder thickets, sedge meadows; mainly in the floodplain of the Wisconsin River. | * | * | | * | * | | | |
| Laportea canadensis (L.) Wedd. | Wood Nettle | Floodplain forests, mesic woods, Hemlock stands, Alder thickets; often dominating the herbaceous ground cover in summer. | * | * | | * | * | • • • • • • • • | | ♦ 5 |
| Parietaria pensylvanica Willd. | Pellitory | Optimum sites are bare, damp, and shady, for example rock outcrops, gravel roadsides in forests, moist woods. | | | | ····· | | | | |
| Pilea fontana (Lunell) Rydb. | Clearweed, Richweed | Alkaline meadows and fens, sedge meadows, marshy streamsides, Alder thickets, Tamarack swamps, deciduous swamps; in Devil's Lake State Park known only from an alkaline meadow between the east and south bluffs. | * | \$ | | * | * | | | ♦ 3 |
| Pilea pumila (L.) Gray | Clearweed, Richweed | Marshy ground, Alder thickets, Tamarack swamps, deciduous swamps, moist woods, Hemlock stands, damp cliffs. | | | | * | * | • • • • • • • | • • • • • • • | ♦ 5 |
| Urtica dioica L. (incl. U. gracilis Ait. & U. procera Willd.) | Stinging Nettle | Damp to wet ground, often where disturbed, for example deciduous swamps, Tamarack swamps, Alder thickets, low meadows, marshy streamsides, ditches, spoil banks. | * | * | | * | | • • • • • • • • | • • • • • • • | \$ 5 |
| /ALERIANACEAE VALERIAN FAMILY | | | | | | | | | | |
| Valeriana edulis T. & G. var. ciliata (T. & G.) Cronq. (V. ciliata T. & G.; V. edulis of authors, not Nutt.) | Valerian | Collected at "Baraboo" in 1884 and in a "Marsh near Baraboo" in 1892; now known only from Leech Creek fen in Fairfield Township where collected in 1975 and 1978. KL. | * | • | | | | | | > 1 |
| ⁿ Valeriana officinalis L. | Garden-heliotrope | Spreading from plantings to roadsides, fields. | * | | | * | | | | |

| | | | Locality and Abundance Code | | | | | | | |
|---|------------------------------------|--|-----------------------------|---|------------|-------------|-------------|---|---------------|--|
| | | | вн | DLSP | DL Only | wu | СР | WR C Only Only | Sk Co AC | |
| VERBENACEAE VERVAIN FAMILY PR 67, 1979, Trans. WASAL | . 67:78-94 | | | | | | | | | |
| Phryma leptostachya L. | Lopseed | Mainly oak woods, also mixed woods, Sugar Maple forests, Hemlock stands. | . | * | | * | | | \$ 4 | |
| Phyla lanceolata (Michx.) Greene (Lippia lanceolata Michx.) | Fog-fruit | Wet open sand along the Wisconsin River and (a 1976 collection) Devil's Lake. | ••••• | * | | ····· | * | * | | |
| Verbena bracteata Lag. & Rodr. | | Pavement, sidewalks, roadsides, railroad beds, dry open sand, open rocky ground. | | * | | * | * | | \$ 3 | |
| Verbena hastata L. | Blue Vervain | Low meadows, alkaline meadows and fens, sandy meadows, loamy prairies, cat-tail marshes, streamside thickets, marshy openings in mesic woods; sometimes weedy, for example pastures. | | ♦ | | * | * | | \$ 4 | |
| Verbena simplex Lehm. | | Known only from an 1861 specimen labelled "Baraboo." WIS. | \$ | | | | | •••••• | \$ 0 | |
| Verbena stricta Vent. | Hoary Vervain | Dry sandy and limey prairies, forest edges, also disturbed ground, such as weedy fields, pastures. | * | * | | * | * | ••••• | \$ 4 | |
| Verbena urticifolia L. | White or Nettle- leaved Vervain | Dry to damp, often disturbed sites, including their borders, for example edges of woods, roadsides, pastures, stream banks, Alder thickets. | * | * | | * | ····· | | \$ 3 | |
| VIOLACEAE VIOLET FAMILY | | ···· <u>c</u> ······ | | | | | | | , | |
| Viola adunca Sm. | Sand Violet | Dry sandy ground, open or semi-shady. | * | | | | | | ♦ 2 | |
| Viola affinis Le Conte (V. missouriensis Greene; after Ballard 1994:179) | | Moist woods, low meadows. WIS. | * | | | * | | | ♦ 1 | |
| ⁿ Viola arvensis Murray | Field Pansy | Sandy cultivated fields. WIS, MIL. | ······ | • | ••••• | | | • | ♦ 1 | |
| Viola blanda Willd. (V. incognita Brainerd) | Sweet White Violet | Cool, damp, deciduous and mixed woods, shady ravines and gorges. | | * | ••••• | | ······ | | \$ 3 | |
| Viola canadensis L. (incl. V. rugulosa Greene) | Canada Violet | Cool, damp, deciduous and mixed woods, low sandy woods. | ••••• | * | | | * | •••••• | ⋄ 2 | |
| Viola cucullata Ait. | Marsh Violet | Swampy ground, low wet woods, springy , areas, Alder thickets, alkaline meadows and fens, sedge meadows. | * | * | ••••• | * | ······ | | ♦ 4 | |
| Viola labradorica Schrank (V. conspersa Reichenb.; after Ballard 1994:161) | Dog Violet | Deciduous and mixed woods, including their borders, usually in moist or swampy ground, often where disturbed. | * | * | | · \$ | * | | \$ 4 | |
| Viola lanceolata L. | Lance-leaved Violet | Sandy meadows, sedge meadows, also open wet sand, for example ditches; mainly in the Central Plain. | | | ••••• | * | | | ⇒ 2 | |
| Viola macloskeyi F.E. Lloyd (V. pallens (DC.) Brainerd) | Smooth White Violet | Wet ground, including lowland woods, Tamarack swamps, Alder thickets, shady shady gorges, open sand. | ···· | | | * | > | | > 3 | |

| | | | | Loc | ality | and . | Abur | ndanc | e Coc | le | |
|--|-------------------------------|--|----------|-------------|------------|----------|-----------|-------------|-----------|----------|-------|
| | | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co | |
| OLACEAE OLET FAMILY (continue | d) | | | | | | | | | | |
| Viola nephrophylla Greene | | Known only from the Wisconsin River levee near Portage; a species of wet places, especially where limey. WIS. | | | | | \$ | | | * | 1 |
| Viola pedata L. (incl. var. lineariloba DC.) | Pansy Violet | Dry prairies in sandy and limey soils, quartzite glades, dry open woods (Figure 39). | | * | ••••• | * | * | • • • • • • | | ····· | 4 |
| Viola pedatifida G. Don | Prairie Violet | Dry sandy and limey prairies and adjoining open woods. | ········ | | | * | * | | | ····· | 3 |
| Viola pubescens Ait. (incl. V. eriocarpa Schw. and V. pensylvanica Michx.) | Yellow Violet | Deciduous and mixed woods, dry and mesic, rarely deciduous swamps, also Hemlock stands. | ÷ | * | | * | | | | ···· | 4 |
| Viola sagittata Ait. | Arrow-leaved Violet | Quartzite and rhyolite glades, dry sandy prairies, sandy meadows, loamy prairies, edges of ponds and swamps. | | | | * | * | | | | 4 |
| Viola selkirkii Goldie | Selkirk's Violet | Cool, damp, deciduous and mixed woods; often on mossy boulders. | * | * | | * | * | | | | 2 |
| Viola septentrionalis Greene | | Rocky wooded slopes, including cold air pockets. WIS. | | * | | | | | | * | 1 |
| <i>Viola sororia</i> Willd. (incl. ⁿ <i>V. papilionacea</i> Pursh forma <i>albiflora</i> Grover) | Hairy Blue Violet | Floodplains, for example wooded river bottoms, also uplands, for example dry woods or grassy openings. The taxon, <i>V. papilionacea</i> forma <i>albiflora</i> , Confederate Violet, persists and spreads from plantings. | * | * | | | * | | | ···· | 4 |
| TACEAE RAPE FAMILY 3 30, 1940, Trans. WASAL | 32:108-11 | | | | | | | | | | |
| Parthenocissus inserta (Kern.) Fritsch | Virginia Creeper, Woodbine | Upland and lowland woods, especially their borders, also rock outcrops, talus slopes; generally in more open situations than the next species. | * | ··········· | | ······ | * | | | | 3 |
| Parthenocissus quinquefolia (L.) Planch. | Virginia Creeper, Woodbine | Upland and lowland woods, including their borders, also conifer plantations; essentially a forest species. | * | * | | | * | | | | 4 |
| Vitis aestivalis Michx. | Summer Grape | Drier woods, including their borders and openings, also bluff prairies, talus slopes, rarely Tamarack swamps. | | * | | | * | | | | 4 |
| Vitis riparia Michx. | River-bank Grape | Upland woods, especially their borders, also bluff prairies, Hemlock stands, low sandy woods, Tamarack swamps, Alder thickets. | * | * | | ····· | * | | | * | 4 |
| | | | ВН | DLSP | DL Only | WU | СР | WR Only | C Only | Sk Co | |
| | | Total number of species | 1,099 | | 51 | 972 | 1,086 | • | • | 1,323 | 3 |

Excluded Species

The following species are excluded for reasons stated with each species. The list follows the same sequence as the annotated checklist.

FERNS AND FERN ALLIES

■ OPHIOGLOSSACEAE

ADDER'S-TONGUE FAMILY

Ophioglossum vulgatum L.

Adder's-tongue Fern

Reported from Devil's Lake (An appeal for the preservation of the Devil's Lake region. 1906:26). Most likely in the marshes and wet meadows along the lake shore; these areas were altered by the first white settlers, and have been further modified in recent years. More recently this fern was discovered in 1991 in bare ground along a stream in Baraboo Township, 1 mile north of Devil's Lake, by Aaron Armstrong; it could not be relocated in 1995, probably because of the massive flooding of 1993 and the proliferation of Garlic Mustard at the site. No specimens.

GYMNOSPERMS

■ PINACEAE

PINE FAMILY

Abies balsamea (L.) Mill.

Balsam Fir

According to L.S. Cheney (in Fassett 1930a), this species ranges southward along the Wisconsin River to Wisconsin Dells, but there are no specimens.

MONOCOTS

■ CYPERACEAE

SEDGE FAMILY

Carex laeviconica Dew. To be expected in the study area, but not yet verified. Carex molesta Mackenz To be expected in the study area, but not yet verified.

■ LILIACEAE

LILY FAMILY

Planted (2 plants) in a quartzite glade near Devil's Lake State Park in 1981; a total of 5 clumps and 17 Allium cernuum Roth Nodding Wild Onion flowering stalks in 1997. Permanently established and spreading? Native in Wisconsin south and east

of the study area.

■ ORCHIDACEAE ORCHID FAMILY

Pogonia ophioglossoides

(L.) Ker

Rose Pogonia

Pondweed

The University of Wisconsin has an 1861 specimen labelled "Kilbourn" (Wisconsin Dells), but this could have come from outside the study area. Listed by Lueders (1895:522); no specimens.

■ POACEAE

GRASS FAMILY

Calamovilfa longifolia (Hook.) Schribn.

Reported from The Nature Conservancy's Spring Green Preserve (Henderson 1989); no specimens.

■ POTAMOGETONACEAE

PONDWEED FAMILY

Tuckerm.

Potamogeton alpinus Pondweed **Balbis** Potamogeton pulcher

Cited for Sauk County (Devil's Lake?) (Ross and Calhoun 1951:105, map 21), but specimens have not

Reported from the study area, based on specimens collected in Otter Creek in Baxter's Hollow in 1946

by N.C. Fassett; this material has been reannotated as P. amplifolius.

DICOTS

| ■ ASTERACEAE COMPOSITE FAMILY | | |
|---|-----------------------------|---|
| Senecio plattensis Nutt. | Prairie Ragwort | Cited for Sauk County (Barkley 1963:347, map 5), but all specimens from the study area have been annotated as <i>S. pauperculus</i> by R.R. Kowal. |
| ■ BORAGINACEAE BORAGE FAMILY | | |
| ⁿ Echium vulgare L. | Viper's Bugloss | Listed by Lueders (1895:520); no specimens. |
| ■ BRASSICACEAE MUSTARD FAMILY | | |
| ⁿ Draba verna L. | Whitlow-grass | Reported from The Nature Conservancy's Spring Green Preserve (Henderson 1989); no specimens. |
| ■ CARYOPHYLLACEAE PINK FAMILY | | |
| ⁿ Agrostemma githago L. | Purple Cockle | Listed by Lueders (1895:517); no specimens. May have been a weed of Rye fields (Schlising and Iltis 1961:127); now rare or absent from Wisconsin. |
| ⁿ Silene armeria L. | None-so-pretty | Listed by Lueders (1895:516), and collected in Baraboo in 1967; judged as transient. |
| ■ CLUSIACEAE ST. JOHN'S-WORT FAMI | LY | |
| Hypericum canadense L. | Canadian St. John's-wort | To be expected in the study area, but not yet verified. |
| ■ CRASSULACEAE ORPINE FAMILY | | |
| ⁿ Sedum acre L. | Mossy Stonecrop | The University of Wisconsin has an 1891 specimen from Wisconsin Dells, but a county is not indicated. Listed by Lueders (1895:518); no specimens. |
| ■ DROSERACEAE SUNDEW FAMILY | | |
| Drosera rotundifolia L. | Round-leaved Sundew | Both the University of Wisconsin and the Milwaukee Public Museum have specimens from Wisconsin Dells without county designation; possibly these were collected in Juneau County, where this species occurs today. |
| ■ ERICACEAE HEATH FAMILY | | |
| Andromeda polifolia L. var. glaucophylla (Link) DC. | Bog-rosemary | Reported (Winkler 1985:160) from Washburn Bog in the Central Plain (T12N, R7E, Section 3, Sauk County); no specimens. |
| ■ FAGACEAE BEECH FAMILY | | |
| Quercus sp. | | A specimen at the University of Wisconsin, collected December 1884 by H.F. Lueders, Ex. Herbarium William Trelease, at "Sauk City, Wis." is of uncertain identity; it may be Q. muehlenbergii Engelm., as indicated on the original label, but more likely is Q. bicolor. |
| ■ HIPPURIDACEAE MARE'S-TAIL FAMILY | | |
| Hippuris vulgaris L. | Mare's-tail | Listed by Lueders (1895:518); no specimens. |
| ■ LAMIACEAE MINT FAMILY | | |
| Blephilia ciliata (L.) Benth. | Wood Mint | Reported from The Nature Conservancy's Spring Green Preserve (Henderson 1989); no specimens. |

■ MALVACEAE **MALLOW FAMILY** n Alcea rosea L. Hollyhock Occasionally in waste places and roadsides, but transient and not spreading. (Althaea rosea (L.) Cav.) ■ MENYANTHACEAE **BUCKBEAN FAMILY** Menyanthes trifoliata L. Formerly in a marshy area in southern Prairie du Sac Township (Lueders 1895:512); no specimens. Buckbean, Bogbean **■ POLYGONACEAE BUCKWHEAT FAMILY** Polygonum achoreum Knotweed To be expected in the study area, but not yet verified. A species of uncertain origin; native? Blake ■ RANUNCULACEAE **BUTTERCUP FAMILY** Hydrastis canadensis L Golden-seal Reported from a woods near Reedsburg; no specimens. **■ ROSACEAE ROSE FAMILY** Crataegus mollis Scheele Hawthorn Reported from a quartzite glade near Devil's Lake State Park (Armstrong 1994:363); no specimens. Rubus bellobatus University of Wisconsin specimens from Devil's Lake and the Lower Dells (Sauk County) are Bailey "probably" this taxon (A.M. Fuller). Rubus multifer Bailey A University of Wisconsin specimen from T8N, R3E, Section 13, may be this taxon. Specimens from the Baraboo Hills, Devil's Lake State Park, and the Western Upland are probably this Rubus steelei Bailey taxon (A.M. Fuller; M.P. Widrlechner). **■ SOLANACEAE** NIGHTSHADE FAMILY n Datura stramonium L. Iimsonweed Listed by Lueders (1895:520); no specimens. **■ ULMACEAE ELM FAMILY** Ulmus thomasii Sarg. Rock Elm, Cork Elm Reportedly in Sauk County (Costello 1933:193, map 2; from L.S. Cheney), but there are no specimens. (U. racemosa Gray) ■ VERBENACEAE **VERVAIN FAMILY** Verbena officinalis L. Attributed to Sauk County (for example Hartley 1966:162), but reannotated as a hybrid, V. bracteata × V. urticifolia, by H.N. Moldenke (Tans and Iltis 1979:80,92). **■ VIOLACEAE VIOLET FAMILY**

Listed by Lueders (1895:516); no specimens.

n Viola tricolor L.

Johnny-jump-up

145

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INDEX

This index of families, genera, and common names is for the Annotated Checklist and Excluded Species only. Family names are in capitals, generic names in italics, and common names in regular type. Family and generic names in () are cited but not taxonomically recognized herein.

A

| A |
|---|
| Abies, 143 |
| Absinthe, 81 |
| Abutilon, 118 |
| Acalypha, 107 |
| |
| Acer, 74-75 |
| ACERACEAE, 74-75 |
| Achillea, 80, 82 |
| (Acnida), 75 |
| Aconitum, 127 |
| Acorus, 50 |
| Actaea, 126 |
| (Actinomeris), 93 |
| Adder's-mouth, Green, 63 |
| Adder's-tongue Family, 46, 143 |
| Adder's-tongue Fern, 143 |
| ADIANTACEAE, 43 |
| |
| Adiantum, 43 |
| Adlumia, 121 |
| Adoxa, 75 |
| ADOXACEAE, 75 |
| Aesculus, 114 |
| Agalinis, 141-42 |
| Agastache, 120 |
| (Agoseris), 95 |
| Agrimonia, 135 |
| Agrimony, 135 |
| (Agropyron), 67 |
| Agrostemma, 145 |
| Agrostis, 64-65 |
| |
| AIZOACEAE, 75 |
| Ajuga, 114 |
| Alcea, 145 |
| Alder, Speckled, 94 |
| Alder-leaved Buckthorn, 128 |
| Aletris, 60 |
| Alexander, Golden, 78 |
| Alfalfa, 111 |
| Alisma, 49 |
| ALISMACEAE, 49 |
| (ALISMATACEAE), 49 |
| Alliaria, 95 |
| Allium, 60, 143 |
| Alnus, 94 |
| |
| Alopecurus, 65 |
| Alslike Clover, 111 |
| (Althaea), 145 |
| Alum-root, 135 |
| Alyssum, 95 |
| Alyssum |
| Hoary, 96 |
| Pale, 95 |
| Amaranth, 75 |
| Green, 75 |
| Amaranth Family, 75-76 |
| 1 1111111111111111111111111111111111111 |
| AMARANTHACEAE 75-76 |
| AMARANTHAČEAE, 75-76 Amaranthus, 75 |

| A 1 ' 01 |
|------------------------|
| Ambrosia, 81 |
| Amelanchier, 129 |
| American |
| Ash, 119 |
| Black Currant, 135 |
| Brooklime, 138 |
| Cranberry, 107 |
| Elm, 140 |
| |
| Pennyroyal, 115 |
| Vetch, 111 |
| Yew, 49 |
| Amorpha, 108 |
| Amphicarpa, 108 |
| ANACARDIACEAE, 76 |
| Anaphalis, 81 |
| Andromeda, 144 |
| Andropogon, 65 |
| (Andrews 2011) 71 |
| (Andropogon), 71 |
| Androsace, 125 |
| Anemone, 126-27 |
| Anemone, 126 |
| Canada, 126 |
| False Rue-, 127 |
| Rue-, 127 |
| Virginia, 126 |
| Wood, 126 |
| (Anemonella), 128 |
| |
| Angelica, 76 |
| Angelica, 76 |
| Annual Bluegrass, 70 |
| Antennaria, 81 |
| Anthemis, 81 |
| APIACEAE, 76-78 |
| Apios, 108 |
| Aplectrum, 62 |
| APOCYNACEAE, 78 |
| Apocynum, 78 |
| Apple, 130 |
| |
| AQUIFOLIACEAE, 78 |
| Aquilegia, 126 |
| Arabis, 95-96 |
| ARACEAE, 50 |
| Aralia, 78-79 |
| ARALIACEAE, 78-79 |
| Arbutus, Trailing, 106 |
| Arctic Primrose, 125 |
| Arctium, 81 |
| Arctostaphylos, 106 |
| Arenaria, 100-01 |
| |
| Arisaema, 50 |
| Aristida, 65 |
| ARISTOLOCHIACEAE, 79 |
| Armoracia, 96 |
| (Arnoglossum), 84 |
| Aronia, 129 |
| Arrowhead, 49 |
| , |

| Arrow-leaved |
|---------------------------|
| Aster, 83 |
| |
| Tearthumb, 124 |
| Violet, 142 |
| Arrow-wood, Downy, 100 |
| Artemisia, 81-82 |
| Artichoke, Jerusalem-, 87 |
| Arum Family, 50 |
| Asarum, 79 |
| ASCLEPIADACEAE, 79-80 |
| ASCLEFIADACEAE, 79-60 |
| Asclepias, 79-80 |
| Ash |
| American, 119 |
| Black, 120 |
| European Mountain-, 132 |
| Green, 120 |
| Prickly-, 134 |
| Red, 120 |
| |
| White, 119 |
| Ash Family, 119-20 |
| Ashy Sunflower, 87 |
| Asiatic Honeysuckle, 99 |
| Asparagus, 60 |
| Asparagus, Garden, 60 |
| Aspen |
| Big-toothed, 134 |
| |
| Quaking, 134 |
| ASPLENIACEAE, 43 |
| Asplenium, 43 |
| Aster, 82-83 |
| (Aster), 91 |
| Aster, 82-83 |
| Arrow-leaved, 83 |
| Azure, 83 |
| Big-leaved, 82 |
| |
| Calico, 82 |
| Flat-topped White, 83 |
| Flax-leaved, 82 |
| Frost, 83 |
| Heart-leaved, 82 |
| Heath, 82 |
| Marsh, 82 |
| New England, 82 |
| |
| Oblong-leaved, 82 |
| Ontario, 82 |
| Red-stemmed, 83 |
| Rush, 82 |
| Short's, 83 |
| Silky, 83 |
| Small White, 82 |
| Smooth, 82 |
| Zig-zag, 83 |
| ACTED ACE AE ON NO 144 |
| ASTERACEAE, 80-93, 144 |
| Astragalus, 108 |
| Athyrium, 43-44 |
| Atriplex, 102 |
| Allipiex, 102 |

| Aureolaria, 138 | Bellflower | Raspberry, 132 |
|------------------------|--------------------------|-----------------------------|
| Autumn-olive, 105 | European, 98 | Snakeroot, 77-78 |
| Avens, 129 | : Marsh, 98 | Walnut, 114 |
| Purple, 130 | Tall, 98 | : Willow, 135 |
| White, 129 | Bell's Honeysuckle, 99 | : Black-eyed Susan, 90 |
| Awned Cyperus, 56 | Bellwort, 61 | Blackberry, Common, 131 |
| Azolla, 43 | Bent, Upland, 65 | Blackberry-lily, 58 |
| AZOLLACEAE, 43 | BERBERIDACEAE, 93-94 | Bladder Campion, 101 |
| Azure Aster, 83 | Berberis, 93 | Bladdernut, 139 |
| | Bergamot | Bladdernut Family, 139 |
| — | Spotted Wild, 115 | Bladderwort, 117 |
| В | Wild, 115 | Bladderwort Family, 117 |
| Baby's Breath, 101 | Berteroa, 96 | Blazing Star, 89 |
| Balsam | Berula, 76 | Blephilia, 116, 145 |
| | Betula, 94 | Bloodroot, 121 |
| Fir, 143 | BETULACEAE, 94 | Blue |
| Poplar, 134 | Bidens, 83-84 | Beech, 94 |
| Willow, 135 | | • |
| BALSAMINACEAE, 93 | Big Bluestem, 65 | Cohosh, 93 |
| Baneberry | Big-leaved Aster, 82 | Lettuce, 88 |
| Red, 126 | Bignonia Family, 94 | Lobelia, Great, 99 |
| White, 126 | BIGNONIACEAE, 94 | Phlox, 122 |
| Baptisia, 109 | Big-toothed | Vervain, 141 |
| Baptisia | Aspen, 134 | Violet, Hairy, 142 |
| Creamy, 109 | Sunflower, 87 | Bluebead Lily, 60 |
| White, 109 | Bindweed | Bluebell Family, 98-99 |
| Barbarea, 96 | Black, 123 | Bluebells, 95 |
| Barberry | Field, 104 | Blueberry |
| Common, 93 | Hedge, 104 | Early, 107 |
| Japanese, 93 | Low, 104 | Velvet-leaved, 107 |
| Barberry Family, 93-94 | Birch_ | : Blue-eyed-grass, 58 |
| Barnyard Grass, 66 | Bog, 94 | Bluegrass |
| Bartonia, 112 | Paper, 94 | Annual, 70 |
| Basswood, 139 | River, 94 | Canada, 70 |
| Basswood Family, 139 | Yellow, 94 | Kentucky, 71 |
| Bastard-toadflax, 135 | Birch Family, 94 | Blue-joint, 66 |
| Beach-heath, 103 | Bird's-foot Trefoil, 110 | Blue-sailors, 84 |
| Beaked Hazel, 94 | Birthwort Family, 79 | Bluestem |
| Beak-rush, 57 | Bishop's-cap, 135 | Big, 65 |
| • | Bitter Dock, 124 | Little, 71 |
| Bearberry, 106 | Bitternut Hickory, 114 | Bluets, 133 |
| Beard-tongue, 137-38 | Bittersweet, 102 | Blunt-lobed |
| Bebb's Willow, 134 | Bittersweet Family, 102 | Cliff Fern, 45 |
| Bedstraw | Black | Grape Fern, 46 |
| Northern, 133 | Ash, 120 | Boehmeria, 140 |
| Rough, 133 | Bindweed, 123 | : Bog |
| Shining, 133 | Bulrush, 57 | Birch, 94 |
| Small, 133 | Cherry, Wild, 131 | Orchid, Tall Northern, 63 |
| Sweet-scented, 133 | Currant, American, 135 | Willow, 135 |
| Beebalm, 115 | Elder, 100 | Bogbean, 145 |
| Beech | Huckleberry, 106 | Bog-rosemary, 144 |
| Blue, 94 | Locust, 111 | : Boltonia, 84 |
| Fern, Broad, 47 | : Maple, 75 | Boneset, 86 |
| Fern, Narrow, 47 | Medick, 110 | False, 84 |
| Beech Family, 112, 144 | Mustard, 96 | Tall, 86 |
| Beech Fern Family, 47 | Nightshade, 139 | Upland, 86 |
| Belamcanda, 58 | Oak, 112 | Borage Family, 94-95, 144 |
| | | · Doinge Luminy, of Jo, 177 |

| BORAGINACEAE, 94-95, 144 | Burdock, 81 | Carrot, Wild, 77 |
|-------------------------------------|------------------------------------|--------------------------------|
| Botrychium, 46 | Bush Honeysuckle, 99 | : Carum, 76 |
| Bottle Gentian, 113 | Bush-clover, 110 | : Carya, 114 |
| Bottle-brush Grass, 67 | Bushy Knotweed, 123 | : CARYOPHYLLACEAE, 100-02, 144 |
| Bottlebrush Sedge, 51 | Butter-and-eggs, 137 | Cases' Ladies'-tresses, 64 |
| Bouncing Bet, 101 | Buttercup | (Cassandra), 106 |
| Bouteloua, 65 | Early, 127 | (Cassia), 109 |
| Box-elder, 74 | Prairie, 128 | Castanea, 112 |
| Brachyelytrum, 65 | Swamp, 127 | Castilleja, 137 |
| Bracken Fern, 43 | Tall, 127 | Cat-tail |
| Bracken Fern Family, 43 | Buttercup Family, 126-28, 145 | Common, 74 |
| Bracted | Butterfly-weed, 80 | Narrow-leaved, 74 |
| Orchid, 62 | Butternut, 114 | Cat-tail Family, 74 |
| Plantain, 122 | Buttonbush, 133 | Catalpa, 94 |
| Brasenia, 119 | 2 4000-12 400-1, 400 | Catalpa, Northern, 94 |
| Brassica, 96-97 | | Catchfly |
| BRASSICACEAE, 95-98, 144 | □ C | Forking, 101 |
| Brickellia, 84 | Cabbage, Skunk-, 50 | Grass, 68 |
| Bristly | Cacalia, 84 | Sticky, 101 |
| Crowfoot, 127 | CACTACEAE, 98 | Catnip, 116 |
| Foxtail, 71 | Cactus Family, 98 | Cat's Ear, 88 |
| Hawkweed, 88 | | Caulophyllum, 93 |
| • | Calamagrostis, 66 Calamovilfa, 143 | Ceanothus, 128 |
| Sarsaparilla, 78 | | Cedar |
| Brittle Prickly-pear, 98 | Calico Aster, 82 | · |
| Broad Beech Fern, 47 | Calla, 50 | Eastern Red, 48 |
| Broad-leaved Plantain, 122 | Calla, Wild, 50 | Eastern White, 48 |
| Brome | Callirhoe, 118 | Celandine, 121 |
| Canada, 66 | CALLITRICHACEAE, 98 | Celary, Water-, 58 |
| Fringed, 65 | Callitriche, 98 | CELASTRACEAE, 102 |
| Grass, 65 | Calopogon, 62 | : Celastrus, 102 |
| Smooth, 65 | Caltha, 127 | Celtis, 139 |
| Bromus, 65-66 | Calystegia, 104 | Cenchrus, 66 |
| Brook Lobelia, 99 | Camas, White, 61 | Centaurea, 84 |
| Brooklime, American, 138 | Campanula, 98 | Cephalanthus, 133 |
| Broom-rape Family, 121 | CAMPANULACEAE, 98-99 | : Cerastium, 100 |
| Buckbean, 145 | : Campanulastrum, 98 | CERATOPHYLLACEAE, 102 |
| Buckbean Family, 145 | Campion, 101 | : Ceratophyllum, 102 |
| Buckeye, Ohio, 114 | Bladder, 101 | Cercis, 109 |
| Buckeye Family, 114 | Starry, 101 | Chaenorrhinum, 137 |
| Buckthorn | Camptosorus, 43 | : Chamaecrista, 109 |
| Alder-leaved, 128 | Canada | : Chamaedaphne, 106 |
| Common, 128 | Anemone, 126 | : Chamaesyce, 107-08 |
| Glossy, 128 | Bluegrass, 70 | Chamomile |
| Buckthorn Family, 128 | Brome, 66 | False, 89 |
| Buckwheat | Goldenrod, 91 | Stinking, 81 |
| Climbing, 123 | Mayflower, 60 | Charlock, 97 |
| Climbing False, 124 | Plum, 131 | Cheilanthes, 43 |
| Buckwheat Family, 123-124, 145 | Thistle, 85 | : Chelidonium, 121 |
| Buffalo-berry, 106 | Violet, 141 | : Chelone, 137 |
| Buffalo-bur, 139 | Canadian St. John's-wort, 144 | CHENOPODIACEAE, 102-03 |
| Bugleweed, 114 | Canary Grass, Reed, 70 | : Chenopodium, 102-03 |
| Bugloss, Viper's, 144 | Cancer-root, One-flowered, 121 | Cherry |
| Bulblet Fern, 44 | (CANNABINACEAE), 119 | Choke, 131 |
| Bulbostylis, 50 | Cannabis, 119 | Fire, 131 |
| Bull Thistle, 85 | Caper Family, 99 | Ground-, 139 |
| Bulrush | CAPPARIDACEAE, 99 | Pin, 131 |
| Black, 57 | CAPRIFOLIACEAE, 99-100 | Sand, 131 |
| Hardstem, 57 | Capsella, 96 | Wild Black, 131 |
| River, 57 | Caraway, 76 | Chess, Downy, 66 |
| Softstem, 58 | Cardamine, 96, 97 | Chestnut, 112 |
| | Cardinal Flower, 98 | Chickweed |
| Bur Oak 112 | Carduus, 84 | Common, 102 |
| Bur-cucumber 105 | Carex, 50-56, 143 | Giant, 101 |
| Bur-marigald 83-84 | | Long-leaved, 102 |
| Bur road 73 | Carpetweed Family, 75 Carpinus, 94 | Mouse-ear, 100 |
| Bur-reed, 73 Bur-reed Family, 73 | Carrion-flower, 73 | Nodding, 100 |
| Dui-iceu i allilly, 13 | . Carron-110wer, /3 | . INGULARIE, 100 |

| Chicory, 84 | Shining, 46 | Creeping Juniper, 48 |
|--|--|------------------------------------|
| Chimaphila, 106 | Clubmoss Family, 46 | Crepis, 85 |
| Choke Cherry, 131 | Club-spur Orchid, 63 | Cress |
| Chokeberry, 129 | CLUSIACEAE, 103-04, 144 | Drummond's Rock, 95 |
| Christmas Fern, 45 | Cockle, Purple, 144 | Hairy Rock, 96 |
| (Chrysanthemum), 89 | Cocklebur, 93 | Lyreleaf Rock, 96 |
| Chrysosplenium, 135 | Cockspur Thorn, 129 | Penny, 98 |
| Chufa, 56 | Coeloglossum, 62 | Pink Spring, 96 |
| Cicely, Sweet, 77 | Cohosh, Blue, 93 | Smooth Rock, 96 |
| Cichorium, 84 | Colic-root, 60 | Spring, 96 |
| Cicuta, 77 | Collinsonia, 114 | Yellow, 97 |
| Cinna, 66 | Columbine, Wild, 126 | Crested Wood Fern, 44 |
| Cinnamon Fern, 47 | Comandra, 135 | Crotalaria, 109 |
| Cinquefoil | (Comarum), 130 Commelina, 50 | Croton, 108 Crowfoot |
| Marsh, 130 : Old-field, 130 : : | COMMELINACEAE, 50 | • |
| Rough, 130 | | Bristly, 127 Clubmoss, 46 |
| Rough-fruited, 130 | Compass-plant, 90 (COMPOSITAE), 80-93 | Cursed, 128 |
| Shrubby, 130 | Composite Family, 80-93, 144 | Small-flowered, 127 |
| Silvery, 130 | Comptonia, 119 | White Water, 127 |
| Tall, 130 | Coneflower, 90 | Yellow Water, 127 |
| Three-toothed, 131 | Prairie-, 90 | Crown-vetch, 109 |
| Circaea, 120 | Sweet, 90 | (CRUCIFERAE), 95-98 |
| Cirsium, 84-85 | Confederate Violet, 142 | Cryptogramma, 43 |
| CISTACEAE, 103 | Conopholis, 121 | Cryptotaenia, 77 |
| Citrus Family, 134 | Convallaria, 60 | Cucumber |
| Clammyweed, 99 | CONVOLVULACEAE, 104 | Bur-, 105 |
| Claytonia, 124 | Convolvulus, 104 | Wild-, 105 |
| Clearweed, 140 | Conyza, 85 | CUCURBITACEAE, 105 |
| Cleavers, 133 | Coontail, 102 | : Cudweed, 86 |
| Clematis, 127 | Coptis, 127 | Cliff, 86 |
| Clematis, Purple, 127 | Coral-root | Low, 87 |
| Cliff | Fall, 62 | Culver's-root, 138 |
| Cudweed, 86 | Spotted, 62 | Cup-plant, 90 |
| Fern, Blunt-lobed, 45 | Corallorhiza, 62 | CUPRESSACEAE, 48 |
| Fern, Rusty, 45 | Cordgrass, 71 | Curly |
| Goldenrod, 92 | Coreopsis, 85 | Dock, 124 |
| Cliff-brake | Cork Elm, 145 | Pondweed, 72 |
| Purple, 43 | Corn, 72 | Currant |
| Slender, 43 | Speedwell, 138 | American Black, 135 |
| Smooth, 43 | Squirrel-, 121 | Clove, 135 |
| Climbing Purple 122 | CORNACEAE, 105 | Red, 136 |
| Buckwheat, 123 False Buckwheat, 124 | Cornus, 105 Coronilla, 109 | Skunk, 136 Cursed Crowfoot, 128 |
| Clintonia, 60 | Corydalis, 121 | Cuscuta, 104 |
| Clove Currant, 135 | Corydalis, 121 | (CUSCUTACEAE), 104 |
| Clover | Pale, 121 | Cut Grass, 68 |
| Alslike, 111 | Corylus, 94 | Cycloloma, 103 |
| Bush-, 110 | Cotton-grass, 57 | Cynoglossum, 94 |
| Hop, 111 | Cottonweed, 75-76 | CYPERACEAE, 50-58, 143 |
| Low Hop, 111 | Cottonwood, 134 | : Cyperus, 56 |
| Purple Prairie-, 109 | Cowbane, 77 | Cyperus, 56 |
| Rabbit-foot, 111 | Cow Herb, 102 | : Awned, 56 |
| Red, 111 | Cow-parsnip, 77 | Houghton's, 56 |
| White, 111 | Cow-wheat, 137 | Low, 56 |
| White Prairie-, 109 | Crab | Red-rooted, 56 |
| White Sweet-, 111 | Grass, 66 | Schweinitz's, 56 |
| Yellow, 111 | Wild, 130 | Shining, 56 |
| Yellow Sweet-, 111 | Crack Willow, 134 | Slender-stemmed, 56 |
| Yellow-eyed-, 74 | Cranberry, 107 | Straw-colored, 56 |
| Yellow-eyed-, Family, 74 | American, 107 | Cypress Family, 48 |
| Clubmoss | Highbush-, 100 | Cypress |
| Crowfoot, 46 | CRASSULACEAE, 105, 144 | Summer-, 103 |
| Ground-cedar, 46 | Crataegus, 129, 145 | Spurge, 108 |
| Rock, 46 | Creamy Baptisia, 109 | Cypripedium, 62 |
| Running, 46 | Creeper, Virginia, 142 | Cystopteris, 44 |

| \mathbf{D} | Dotted | Rock, 145 |
|---------------------------------|--|---------------------------------------|
| Dactylis, 66 | Hawthorn, 129 | Siberian, 140 |
| Daisy | St. John's-wort, 104 | Slippery, 140 White, 140 |
| Common, 89 | Downy | Elm Family, 139-40, 145 |
| Fleabane, 85-86 | : Arrow-wood, 100 : Chess, 66 | Elm-leaved Goldenrod, 92 |
| Giant, 89 | Painted-cup, 137 | Elodea, 58 |
| Daisy-leaved Grape Fern, 46 | Phlox, 122 | Elsholtzia, 115 |
| Dalea, 109 | Rattlesnake-plantain, 62 | Elymus, 67 |
| Dalmatian Toadflax, 137 | Sunflower, 87 | Elytrigia, 67 |
| Dame's Rocket, 97 | Draba, 97, 144 | Enchanter's-nightshade, 120 |
| Dandelion, 92 | Dragonhead, False, 116 | Epigaea, 106 |
| Common, 92 | Drooping Sedge, 54 | Epilobium, 120 |
| Dwarf, 88 | Dropseed, 71-72 | EQUISETACEAE, 45 |
| Prairie, 89 | Prairie, 71 | Equisetum, 45 |
| Red-seeded, 92 | Drosera, 144 | Eragrostis, 67 |
| Danthonia, 66 | DROSERACEAE, 144 | Erechtites, 85 |
| Datura, 145 | Drummond's Rock Cress, 95 | ERICACEAE, 106-07, 144 |
| Daucus, 77 | DRYOPTERIDACEAE, 43-45 | Erigeron, 85, 86 |
| Day Lily, Orange, 60 | : Dryopteris, 44 | Eriophorum, 57 |
| Dayflower, 50 | (Dryopteris), 47 | Erodium, 113 |
| Deadly Nightshade, 139 | Duckweed, 59 | Eryngium, 77 |
| Decodon, 117 | Greater, 59 | Eryngo, 77 |
| DENNSTAEDTIACEAE, 43 | Star, 59 | Erysimum, 97 |
| Dentaria, 97 | Duckweed Family, 59-60 | Erythronium, 60 Euonymus, 102 |
| Deparia, 44 | Dulichium, 56 Dutchman's-breeches, 121 | Euonymus, 102 Eupatorium, 86 |
| Deptford Pink, 100 | : Dwarf | Euphorbia, 107-08 |
| Deschampsia, 66 | Dandelion, 88 | EUPHORBIACEAE, 107-08 |
| Descurainia, 97 | Elm, 140 | European |
| Desmodium, 109 | Ginseng, 79 | Bellflower, 98 |
| Devil's Paint-brush, 88 | Raspberry, 132 | Fly Honeysuckle, 100 |
| Dewberry | Scouring-rush, 45 | Mountain-ash, 132 |
| Northern, 132 | Dwarf-snapdragon, 137 | Euthamia, 86 |
| Swamp, 132 | : · · · | Evening-primrose, 120 |
| Dianthus, 100 Dicentra, 121 | ■ E | Evening-primrose Family, 120 |
| DICOTS, 74-142, 144-45 | ; — — | Eyebane, 107 |
| Diervilla, 99 | Early | |
| Digitaria, 66 | Blueberry, 107 | ■ F |
| Dioscorea, 58 | Buttercup, 127 | : |
| DIOSCOREACEAE, 58 | Goldenrod, 91 | FABACEAE, 108-12 |
| Diplazium, 44 | 'Meadow-rue, 128 | FAGACEAE, 112, 144 |
| Dirca, 139 | Sunflower, 87 | Fall Coral-root, 62 |
| Dissected Grape Fern, 46 | Eastern Hemlock, 49 | Witch Grass, 66 |
| Ditch Stonecrop, 105 | Red Cedar, 48 | False |
| Dock | White Cedar, 48 | Boneset, 84 |
| Bitter, 124 | Ebony Spleenwort, 43 | Buckwheat, Climbing, 12 |
| Curly, 124 | Echinochloa, 66 | Chamomile, 89 |
| Pale, 124 | Echinocystis, 105 | Dragonhead, 116 |
| Prairie-, 91 | Echium, 144 | Foxglove, 136 |
| Spatter-, 119 | ELAEAGNACEAE, 105 | Indigo, 108 |
| Swamp, 124 | Elaeagnus, 105 | Mermaid, 117 |
| Water, 124 | Elder | Nettle, 140 |
| Dodder, 104 | Black, 100 | Pennyroyal, 117 |
| Dodder Family, 104 | Box-, 74 | Pimpernel, 137 |
| Dodecatheon, 125 | Common, 100 | Rue-anemone, 127 |
| Dog Violet, 141 | Northern, 100 | Solomon's-seal, 61 |
| Dogbane Family, 78 | Red, 100 | Spiraea, 132 |
| Dogbane, Spreading, 78 | Elecampane, 88 | False Mermaid Family, 117 |
| Dogwood | Eleocharis, 56-57 | False-indigo, 108 |
| Gray, 105 | Elm | Fameflower, 125 |
| Pagoda, 105 | American, 140 | Fern Addor's-tongue 143 |
| Round-leaved, 105 Silky, 105 | Cork, 145 Dwarf, 140 | Adder's-tongue, 143 Beech, Family, 47 |
| Dogwood Family 105 | Red. 140 | Blunt-lobed Cliff, 45 |

| Blunt-lobed Grape, 46 | Flax-leaved Aster, 82 | Gentianopsis, 113 |
|--------------------------|--------------------------|----------------------------|
| Bracken, 43 | Fleabane, 86 | GERANIACEAE, 113 |
| Broad Beech, 47 | Daisy, 85-86 | Geranium, 113 |
| Bulblet, 44 | Floerkea, 117 | Geranium, 113 |
| Christmas, 45 | Flower-of-an-hour, 118 | Wild, 113 |
| Cinnamon, 47 | Flowering Spurge, 108 | Geranium Family, 113 |
| Crested Wood, 44 | Fog-fruit, 141 | (Gerardia), 136 |
| Daisy-leaved Grape, 46 | Forget-me-not, 95 | Gerardia, 136 |
| Dissected Grape, 46 | True, 95 | Germander, 117 |
| | • | |
| Fragile, 44 | Forking Catchfly, 101 | Geum, 129-30 |
| Fragrant, 44 | Four-o'clock, 119 | Geyer's Spurge, 107 |
| Glade, 44 | Four-o'clock Family, 119 | Giant |
| Glandular Wood, 44 | Fowl | Chickweed, 101 |
| Goldie's, 44 | Manna Grass, 68 | Daisy, 89 |
| Interrupted, 47 | Meadow Grass, 71 | Foxtail, 71 |
| Lady, 43 | Foxglove, False, 136 | Ragweed, 81 |
| Lance-leaved Grape, 46 | Foxtail, 65 | St. John's-wort, 103 |
| Leather-leaved Grape, 46 | Bristly, 71 | Giant-hyssop |
| Maidenhair, Family, 43 | Giant, 71 | Purple, 114 |
| Marginal Shield, 44 | Green, 71 | Yellow, 114 |
| Marsh, 47 | Yellow, 71 | |
| | | Ginger, Wild, 79 |
| Mosquito, 43 | Fragaria, 129 | Ginseng, 79 |
| Mosquito, Family, 43 | Fragile Fern, 44 | Dwarf, 79 |
| Narrow Beech, 47 | Fragrant | Ginseng Family, 78-79 |
| Northern Maidenhair, 43 | Fern, 44 | Glade |
| Oak, 44 | Sumac, 76 | Fern, 44 |
| Oblique Grape, 46 | Frangula, 128 | Silvery, 44 |
| Ostrich, 45 | Fraxinus, 119-20 | Mallow, 118 |
| Rattlesnake, 46 | Fringed | Glandular Wood Fern, 44 |
| Rock, 47 | Brome, 65 | Glaucous White Lettuce, 90 |
| Royal, 47 | Gentian, 113 | Glechoma, 115 |
| • | Loosestrife, 125 | • |
| Royal, Family, 47 | | Gleditsia, 109 |
| Rusty Cliff, 45 | Sedge, 51 | Glossy Buckthorn, 128 |
| Sensitive, 45 | Froelichia, 75-76 | Glyceria, 67-68 |
| Silvery Glade, 44 | Frog's-bit Family, 58 | Gnaphalium, 86-87 |
| Slender Lip, 43 | Frost Aster, 83 | Goat's-beard, 92 |
| Spinulose Wood, 44 | Frostweed, 103 | Goat's-rue, 111 |
| Sweet-, 119 | (FUMARIACEAE), 121 | Golden |
| Sweet-, Family, 119 | : | Alexander, 78 |
| Walking, 43 | : <u> </u> | Groundsel, 90 |
| Wood, Family, 43-45 | ■ G | Saxifrage, 135 |
| FERNS AND FERN ALLIES, | Gaillardia, 86 | Golden-seal, 145 |
| 43-47, 143 | Galearis, 62 | Goldenrod |
| Fescue | Galeopsis, 115 | Canada, 91 |
| | | |
| Meadow, 67 | Galinsoga, 86 | Cliff, 92 |
| Nodding, 67 | Galium, 133 | Early, 91 |
| Red, 67 | Garden | Elm-leaved, 92 |
| Six-weeks, 72 | Asparagus, 60 | Grass-leaved, 86 |
| Tall, 67 | Iris, 58 | Hairy, 91 |
| Festuca, 67 | Garden-heliotrope, 140 | Late, 91 |
| (Festuca), 72 | Garlic | : Missouri, 91 |
| Field | : Mustard, 95 | Old-field, 91 |
| Bindweed, 104 | Wild, 60 | Riddell's, 91 |
| Horsetail, 45 | Gaultheria, 106 | Rough-leaved, 91 |
| Mint, 115 | Gay Feather, 89 | Showy, 92 |
| | | |
| Mustard, 96 | Gaylussacia, 106 | Stiff, 92 |
| Pansy, 141 | Gentian | Zig-zag, 91 |
| Figwort, 138 | Bottle, 113 | Goldie's Fern, 44 |
| Figwort Family, 136-38 | Fringed, 113 | Goldthread, 127 |
| Fimbristylis, 57 | Prairie, 113 | Goodyera, 62 |
| Fir, Balsam, 143 | Stiff, 113 | Gooseberry |
| Fire Cherry, 131 | White, 112 | Hairy-stem, 136 |
| Fireweed, 120 | Gentian Family, 112-13 | Missouri, 136 |
| | | |
| | | • |
| Flag, Sweet-, 50 | Gentiana, 112-13 | Prickly, 136 |
| | | • |

| Oak-leaved, 103 | Wood Reed, 66 | Heal-all, 116 |
|--------------------------|---------------------------------|--------------------------------|
| Goosefoot Family, 102-03 | : Wool-, 57 | Heart-leaved |
| Goosegrass, 133 | Yellow Star, 60 | Aster, 82 |
| Gourd Family, 105 | : Yellow-eyed-, 74 | Skullcap, 116 |
| Grama, Side-oats, 65 | Grass Family, 64-71, 143 | Heath |
| (GRAMINAE), 64-72 | Grass-leaved Goldenrod, 86 | Aster, 82 |
| Grape | Grass-of-Parnassus, 135 | Beach-, 103 |
| Fern, Blunt-lobed, 46 | Grass-pink Orchid, 62 | Heath Family, 106-07, 144 |
| Fern, Daisy-leaved, 46 | Gratiola, 137 | Hedeoma, 115 |
| Fern, Dissected, 46 | Gray Dogwood, 105 | : Hedge |
| Fern, Lance-leaved, 46 | Great Blue Lobelia, 99 | Bindweed, 104 |
| Fern, Leather-leaved, 46 | Greater Duckweed, 59 | Mustard, 97 |
| Fern, Oblique, 46 | Green | Hedge-hyssop, 137 |
| Hyacinth, 60 | Adder's-mouth, 63 | Hedge-nettle, 116-17 |
| River-bank, 142 | Amaranth, 75 | (Hedyotis), 133 |
| Summer, 142 | Ash, 120 | Helenium, 87 |
| Grape Family, 142 | Dragon, 50 | Helianthemum, 103 |
| Grass | Foxtail, 71 | Helianthus, 87 |
| Barnyard, 66 | Milkweed, 79-80 | Heliopsis, 87 |
| Blue-eyed-, 58 | Twayblade, 63 | Heliotrope, Garden-, 140 |
| Bottle-brush, 67 | Greenbrier, 73 | : Hemerocallis, 60 |
| | Grindelia, 87 | : (Hemicarpha), 57 |
| Brome, 65 | • | Hemlock |
| Catchfly, 68 | (GROSSULARIACEAE), 135 | |
| Cotton-, 57 | Ground-cedar Clubmoss, 46 | Eastern, 49 |
| Crab, 66 | Ground-cherry, 139 | Water-, 77 |
| Cut, 68 | Ground-ivy, 115 | Hemp, 119 |
| Fall Witch, 66 | Groundnut, 108 | Indian, 78 |
| Fowl Manna, 68 | Groundpine, 46 | Hemp Family, 119 |
| Fowl Meadow, 71 | Groundsel | Hemp-nettle, 115 |
| Hair, 66 | Common, 90 | Hepatica, 127 |
| Indian, 71 | Golden, 90 | Hepatica, 127 |
| June, 68 | Gumweed, 87 | Heracleum, 77 |
| Long-awned Wood, 65 | Gymnocarpium, 44 | Hesperis, 97 |
| Love, 67 | GYMNOSPERMS, 48-49 , 143 | Heteranthera, 72 |
| Manna, 67-68 | Gypsophila, 101 | Heuchera, 135 |
| Muhly, 68-69 | : | Hibiscus, 118 |
| Needle, 72 | ■ H | Hickory |
| Orange-, 104 | | Bitternut, 114 |
| Orchard, 66 | (Habenaria), 62-64 | Shaggybark, 114 |
| Pampas, 68 | Hackberry, 139 | Hieracium, 88 |
| Panic, 69-70 | : Hackelia, 95 | Hierochloe, 68 |
| Pepper, 97 | Hair Grass, 66 | : Highbush-cranberry, 100 |
| Poverty, 66 | Hairy | : Hill's |
| Quack, 67 | Blue Violet, 142 | Oak, 112 |
| Rattlesnake, 67 | Goldenrod, 91 | Thistle, 85 |
| Reed Canary, 70 | Rock Cress, 96 | HIPPOCASTANACEAE, 114 |
| Reed Manna, 68 | Spurge, 108 | : HIPPURIDACEAE, 144 |
| Rib, 122 | Vetch, 112 | : Hippuris, 144 |
| Rice, 69 | Hairy-stem Gooseberry, 136 | : Hoary |
| Rye, 68 | Halberd-leaved Tearthumb, 123 | : Alyssum, 96 |
| Sand, 72 | HALORAGIDACEAE, 113 | Puccoon, 95 |
| Saw-, 53 | HAMAMELIDACEAE, 113 | Vervain, 141 |
| Squirrel-tail, 68 | Hamamelis, 113 | Hog-peanut, 108 |
| Water Star-, 72 | Hardhack, 132 | Holly, Mountain, 78 |
| Stink, 67 | Hardstem Bulrush, 57 | Holly Family, 78 |
| Sweet, 68 | Harebell, 98 | Hollyhock, 145 |
| Switch, 70 | Hawk's Beard, 85 | Honewort, 77 |
| Three-awn, 65 | Hawkweed | Honey Locust, 109 |
| Tickle, 64 | Bristly, 88 | Honeysuckle |
| Toothbrush, 65 | Kalm's, 88 | Ásiatic, 99 |
| Tumble, 67 | Prairie, 88 | Bell's, 99 |
| Wedge, 71 | Hawthorn, 129, 145 | Bush, 99 |
| White, 68 | | |
| | : Dotted. 129 | European Flv. 100 |
| | Dotted, 129 Hazel | European Fly, 100 Morrow's, 99 |
| Whitlow-, 144 | Hazel | Morrow's, 99 |
| | • | |

| Hooker's Orchid, 63 | (Isanthus), 117 | Small Yellow, 62 |
|--|--|---|
| Hop Clover, 111 | ISOETACEAE, 45 | White, 62 |
| Low, 111 | Isoetes, 45 | : Lady's-thumb, 123 |
| Hops | Isopyrum, 127 | Lake Quillwort, 45 |
| Common, 119 | Ivy | Lamb's-quarters, 102 |
| Sedge, 53 | Ground-, 115 | E LAMIACEAE, 114-17, 144 |
| Hordeum, 68 | Poison-, 76 | : Lance-leaved |
| Horned Pondweed, 74 | : | Grape Fern, 46 |
| Horned Pondweed Family, 74 | J | Tickseed, 85 |
| Hornwort Family, 102 | ■ J | Violet, 141 |
| Horse-nettle, 139 | Jack Pine, 48 | Laportea, 140 |
| Horseradish, 96 | Jack-in-the-pulpit, 50 | : Lappula, 95 |
| Horsetail | Jacob's-ladder, 122 | Lapsana, 88 |
| Field, 45 | Japanese | : Large |
| Meadow, 45 | Barberry, 93 | Solomon's-seal, 61 |
| Water, 45 | Knotweed, 123 | Trillium, 61 |
| Woodland, 45 | : Jeffersonia, 93 | Yellow Lady's-slipper, 62 |
| Horsetail Family, 45 | Jerusalem-artichoke, 87 | Larix, 48 |
| Horseweed, 85 | Jimsonweed, 145 | : Late Goldenrod, 91 |
| Houghton's Cyperus, 56 | Joe Pye Weed, 86 | : Lathyrus, 110 |
| Hound's-tongue, Common, 94 | Johnny-jump-up, 145 | Leadplant, 108 |
| Houstonia, 133 | Jointweed, 123 | Leafcup, 89 |
| Huckleberry, Black, 106 | JUGLANDACEAE, 114 | Leather-leaf, 106 |
| Hudsonia, 103 | Juglans, 114 | Leather-leaved Grape Fern, 46 |
| Humulus, 119 | Jumpseed, 124 | Leatherwood, 139 |
| Huperzia, 46 | JUNCACEAE, 58-59 | Leatherwood Family, 139 |
| Hyacinth, Grape, 60 | Juncus, 58-59 | Lechea, 103 |
| (HYDRANGEACEAE), 135 | June Grass, 68 | Ledum, 106 |
| Hydrastis, 145 | Juneberry, 129 | Leek, Wild, 60 |
| HYDROCHARITACEAE, 58 | Juniper | : Leersia, 68 |
| Hydrocotyle, 77 | Common, 48 | Legume Family, 108-12 |
| HYDROPHYLLACEAE, 114 | Creeping, 48 | (LEGUMINOSAE), 108-12 |
| Hydrophyllum, 114 | Juniperus, 48 | Lemna, 59 |
| | • | · I EN ANIA CE A E EO |
| (HYPERICACEAE), 103-04 | : | : LEMNACEAE, 59 |
| (HYPERICACEAE), 103-04 Hypericum, 103-104, 144 | _ 1⁄2 | LEMNACEAE, 59 LENTIBULARIACEAE, 117 |
| · · | ■ K | |
| Hypericum, 103-104, 144 | ■ K Kalm's | LENTIBULARIACEAE, 117 |
| Hypericum, 103-104, 144 Hypochaeris, 88 | | LENTIBULARIACEAE, 117 Leonurus, 115 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 | Kalm's | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop | Kalm's Hawkweed, 88 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 | Kalm's Hawkweed, 88 St. John's-wort, 104 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 IRIDACEAE, 58 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 Prairie, 64 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 Orange Day, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 IRIDACEAE, 58 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 Prairie, 64 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 Orange Day, 60 Tiger, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Ilex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 IRIDACEAE, 58 Iris, 58 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 Prairie, 64 Slender, 64 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 Orange Day, 60 Tiger, 60 Water-, White, 119 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 IRIDACEAE, 58 Iris, 58 Garden, 58 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 Prairie, 64 Slender, 64 Lady Fern, 43 | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 Orange Day, 60 Tiger, 60 Water-, White, 119 White Trout, 60 |
| Hypericum, 103-104, 144 Hypochaeris, 88 Hypoxis, 60 Hyssop Purple Giant-, 114 Yellow Giant-, 114 Hedge-, 137 (Hystrix), 67 I Illex, 78 Illinois Tick-trefoil, 109 Impatiens, 93 Indian Grass, 71 Hemp, 78 Indian-pipe, 106 Indian-plantain, 84 Indian-tobacco, 98 Indian-wheat, 122 Indigo, False-, 108 Interrupted Fern, 47 Inula, 88 Ipomoea, 104 IRIDACEAE, 58 Iris, 58 Garden, 58 Wild, 58 | Kalm's Hawkweed, 88 St. John's-wort, 104 Kentucky Bluegrass, 71 King Devil, 84, 88 Knapweed, Spotted, 84 Knawel, Perennial, 101 Knotweed, 123-24, 145 Bushy, 123 Japanese, 123 Kochia, 103 Koeleria, 68 Krigia, 88 (Kuhnia), 84 L (LABIATAE), 114-17 Labrador-tea, 106 Lactuca, 88 Ladies'-tresses Cases', 64 Nodding, 64 Prairie, 64 Slender, 64 Lady Fern, 43 Lady's-slipper | LENTIBULARIACEAE, 117 Leonurus, 115 Lepidium, 97 (Leptoloma), 66 Lespedeza, 110 Lettuce Blue, 88 Glaucous White, 90 Prairie, 88 Prickly, 88 Rough White, 90 Wild, 88 Woodland, 88 Leucanthemella, 89 Leucanthemum, 89 Liatris, 89 Licorice, Wild, 133 Lilac, Common, 120 LILIACEAE, 60-61, 143 Lilium, 60 Lily Blackberry-, 58 Bluebead, 60 Michigan, 60 Orange Day, 60 Tiger, 60 Water-, White, 119 White Trout, 60 Wood, 60 |

| LIMNANTHACEAE, 117 | Maidenhair | Melilotus, 111 | |
|--|---------------------------------------|----------------------------|--|
| LINACEAE, 117 | Fern, Northern, 43 | MENISPERMACEAE, 118 | |
| Linaria, 137 | Spleenwort, 43 | : Menispermum, 118 | |
| Linden, 139 | Maidenhair Fern Family, 43 | : Mentha, 115 | |
| Lindernia, 137 | : Malaxis, 63 | : MENYANTHACEAE, 145 | |
| Linear-leaved Willow-herb, 120 | Mallow | Menyanthes, 145 | |
| Linnaea, 99 | Common, 118 | Mercury, Three-seeded, 107 | |
| Linum, 117 | Glade, 118 | Mermaid, False, 117 | |
| Lip Fern, Slender, 43 | Musk, 118 | Merrybells, 61 | |
| Liparis, 63 | Poppy, 118 | : Mertensia, 95 | |
| Lipocarpha, 57 | Mallow Family, 118, 145 | Mexican-tea, 102 | |
| (Lippia), 141 | Malus, 130 | Michigan Lily, 60 | |
| | Malva, 118 | (Microseris), 89 | |
| Lithospermum, 95 Little Bluestem, 71 | MALVACEAE, 118, 145 | Midland Trillium, 61 | |
| The state of the s | Manna Grass, 67-68 | Milfoil, 80 | |
| Lobelia, 98-99 | Fowl, 68 | Water-, 113 | |
| Lobelia Brank 00 | Reed, 68 | Milium, 68 | |
| Brook, 99 | Maple | Milk-purslane, 107 | |
| Great Blue, 99 | Black, 75 | Milk-vetch, 108 | |
| Spike, 99 | Mountain, 75 | Milkweed | |
| Lobelia Family, 98 | Red, 74 | Common, 80 | |
| (LOBELIACEAE), 98 | Silver, 74 | Green, 79-80 | |
| Locust | Sugar, 75 | Oval-leaved, 80 | |
| Black, 111 | Maple Family, 74-75 | Purple, 80 | |
| Honey, 109 | Maple-leaved | Swamp, 79 | |
| Long-awned Wood Grass, 65 | Goosefoot, 103 | Tall, 79 | |
| Long-leaved Chickweed, 102 | Viburnum, 100 | Wavy-leaved, 79 | |
| Lonicera, 99-100 | Mare's-tail, 144 | Whorled, 80 | |
| Looking-glass, Venus', 99 | Mare's-tail Family, 144 | Woolly, 79 | |
| Loosestrife, 118 | Marginal Shield Fern, 44 | Milkweed Family, 79-80 | |
| Fringed, 125 | : Marigold | Milkwort, 122 | |
| Lowland, 125 | Bur-, 83-84 | Milkwort Family, 122-23 | |
| Purple, 118 | Marsh-, 127 | Milletgrass, 68 | |
| Swamp, 117 | Water-, 89 | Mimulus, 137 | |
| Tufted, 125 | Marijuana, 119 | Mint | |
| Upland, 125 | Marsh | Field, 115 | |
| Whorled, 125 | Aster, 82 | Mountain, 116 | |
| Loosestrife Family, 117-18 | Bellflower, 98 | Wood, 114, 144 | |
| Lopseed, 141 | Cinquefoil, 130 | Mint Family, 114-17, 144 | |
| Lotus, 110 | Fern, 47 | Minuartia, 101 | |
| Lousewort, Common, 137 | Speedwell, 138 | Mirabilis, 119 | |
| Love Grass, 67 | St. John's-wort, 104 | Miscanthus, 68 | |
| Low | Violet, 141 | Missouri | |
| Bindweed, 104 | Wild-timothy, 68 | Goldenrod, 91 | |
| Cudweed, 87 | Marsh-marigold, 127 | Gooseberry, 136 | |
| Cyperus, 56 | Matricaria, 89 | Mitchella, 133 | |
| Hop Clover, 111 | : Matteuccia, 45 | : Mitella, 135 | |
| Lowland Loosestrife, 125 | May-apple, 94 | Mock-orange, 135 | |
| Ludwigia, 120 | Mayflower, Canada, 60 | Moehringia, 101 | |
| Lupine, 110 | : Meadow | Mollugo, 75 | |
| Lupinus, 110 | Fescue, 67 | Monarda, 115 | |
| Luzula, 59 | Grass, Fowl, 71 | Moneywort, 125 | |
| (Lychnis), 101 | Horsetail, 45 | Monkey Flower, 137 | |
| LYCOPODIACEAE, 46 | Rose, 131 | Monkshood, Northern, 126 | |
| Lycopodium, 46 | Meadow-beauty, 118 | MONOCOTS, 49-73, 143 | |
| Lycopus, 115 | : Meadow-beauty Family, 118 | Monotropa, 106 | |
| Lyreleaf Rock Cress, 96 | : Meadow-rue | (MONOTROPACEA), 106 | |
| Lysimachia, 125 | Early, 128 | Moonseed, 118 | |
| LYTHRACEAE, 117-18 | Purple, 128 | Moonseed Family, 118 | |
| Lythrum, 118 | Meadowsweet, 132 | MORACEAE, 119 | |
| Lynnum, 110 | Medicago, 110 | Morning-glory, 104 | |
| 3. # | Medick, Black, 110 | Morrow's Honeysuckle, 99 | |
| \mathbf{M} | · · · · · · · · · · · · · · · · · · · | Morus, 119 | |
| | Megalodonta, 89 Melampyrum, 137 | Moschatel, 75 | |
| Mad-dog Skullcap, 116 Madder Family, 133 | MELASTOMATACEAE, 118 | Moschatel Family, 75 | |
| Maianthemum, 60-61 | Melic, Purple, 71 | Mosquito Fern, 43 | |
| TIME THE PROPERTY OF THE PROPE | . ITICITC I GIPIC / I | . ITTOO QUITO I CIII, IO | |

| Mosquito Fern Family, 43 | New Jersey Tea, 128 | Ontario Aster, 82 | |
|---|--|--|--|
| Mossy Stonecrop, 144 | Nightshade | OPHIOGLOSSACEAE, 46, 143 | |
| Moth Mullein, 138 | Black, 139 | Ophioglossum, 143 | |
| Motherwort, 115 | Deadly, 139 | Opuntia, 98 | |
| Mountain | Enchanter's-, 120 | Orange Day Lily, 60 | |
| Holly, 78 | Nightshade Family, 139, 145 | Orange-grass, 104 | |
| Maple, 75 | Nimblewill, 69 | Orchard Grass, 66 | |
| Mint, 116 | Ninebark, 130 Orchid | | |
| Mountain-ash, European, 132 | Nipplewort, 88 Bracted, 62 | | |
| Mountain-fringe, 121 | Nodding | Club-spur, 63 | |
| Mouse-ear Chickweed, 100 | Chickweed, 100 | Grass-pink, 62 | |
| Mugwort, Saw-leaf, 82 | Fescue, 67 | Hooker's, 63 | |
| <u> </u> | Ladies'-tresses, 64 | Prairie White-fringed, 64 | |
| Muhler Cross 68-69 | Smartweed, 123 | Purple-fringed, 64 | |
| Muhly Grass, 68-69 | Trillium, 61 | Putty-root, 62 | |
| Mulberry | Wild Onion, 143 | Ragged, 64 | |
| Red, 119 | None-so-pretty, 144 | Tall Northern Bog, 63 | |
| White, 119 | Northern | Three-birds, 64 | |
| Mulberry Family, 119 | Bedstraw, 133 | Tubercled, 63 | |
| Mullein | Bog Orchid, Tall, 63 | | |
| Common, 138 | Catalpa, 94 | Orchid Family, 62-64, 143 | |
| Moth, 138 | | ORCHIDACEAE, 62-64, 143 | |
| Multiflora Rose, 131 | Dewberry, 132 | (Orchis), 62 | |
| Muscari, 60 | Elder, 100 | Orchis, Showy, 62 | |
| Musk Mallow, 118 | Maidenhair Fern, 43 | Ornithogalum, 61 | |
| Mustard | Monkshood, 126 | OROBANCHACEAE, 121 | |
| Black, 96 | Ragwort, 90 | Orobanche, 121 | |
| Field, 96 | St. John's-wort, 104 | Orpine Family, 105, 144 | |
| Garlic, 95 | Norway Spruce, 48 | Orthilia, 106 | |
| Hedge, 97 | Nothocalais, 89 | Oryzopsis, 69 | |
| Tansy, 97 | Nuphar, 119 | Osier, Red-, 105 | |
| Tower, 96 | Nut-rush, 58 | Osmorhiza, 77 | |
| Treacle, 97 | (Nuttallanthus), 137 | Osmunda, 47 | |
| Tumble, 97 | NYCTAGINACEAE, 119 | OSMUNDACEAE, 47 | |
| Wormseed, 97 | Nymphaea, 119 | Ostrich Fern, 45 | |
| vvorinseeu, 37 | : NYMPHAEACEAE, 119 | : Ostrya, 94 | |
| Mustand Camilla OF 00 144 | 111111111111111111111111111111111111111 | | |
| Mustard Family, 95-98, 144 | : : : : : : : : : : : : : : : : : : : | Oswego-tea, 115 | |
| Myosotis, 95 | _ | | |
| Myosotis, 95 Myosoton, 101 | ■ O | Oswego-tea, 115 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 | _ | Oswego-tea, 115 Oval-leaved Milkweed, 80 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 | ■ O | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 | Oak Black, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 | ■ O Oak | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 | Oak Black, 112 Bur, 112 Hill's, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 Pansy | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 Horse-, 139 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 Russian-, 105 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Pansy Field, 141 Violet, 142 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 Horse-, 139 Stinging, 140 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 Pansy Field, 141 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 Horse-, 139 Stinging, 140 Wood, 140 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 Russian-, 105 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Pansy Field, 141 Violet, 142 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 Horse-, 139 Stinging, 140 Wood, 140 Nettle Family, 140 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 Russian-, 105 ONAGRACEAE, 120 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 Pansy Field, 141 Violet, 142 PAPAVERACEAE, 121 | |
| Myosotis, 95 Myosoton, 101 (Myrica), 119 MYRICACEAE, 119 Myriophyllum, 113 N Naiad Family, 61 NAJADACEAE, 61 Najas, 61 Naked-stemmed Sunflower, 87 Nannyberry, 100 Napaea, 118 Narrow Beech Fern, 47 Narrow-leaved Cat-tail, 74 Nasturtium, 97 Needle Grass, 72 Nemopanthus, 78 Nepeta, 116 Nettle False, 140 Hedge-, 116-17 Hemp-, 115 Horse-, 139 Stinging, 140 Wood, 140 | Oak Black, 112 Bur, 112 Hill's, 112 Red, 112 Scarlet, 112 Swamp White, 112 White, 112 Oak Fern, 44 Oak-leaved Goosefoot, 103 Oblique Grape Fern, 46 Oblong-leaved Aster, 82 Oenothera, 120 Ohio Buckeye, 114 Old-field Cinquefoil, 130 Goldenrod, 91 Toadflax, 137 OLEACEAE, 119, 120 Oleaster Family, 105-06 Olive Autumn-, 105 Russian-, 105 ONAGRACEAE, 120 One-flowered Cancer-root, 121 | Oswego-tea, 115 Oval-leaved Milkweed, 80 OXALIDACEAE, 121 Oxalis, 121 Oxypolis, 77 P Pagoda Dogwood, 105 Paint-brush, Devil's, 88 Painted-cup Downy, 137 Scarlet, 137 Painted-leaf, 108 Pale Alyssum, 95 Corydalis, 121 Dock, 124 Touch-me-not, 93 Pampas Grass, 68 Panax, 79 Panic Grass, 69-70 Panicum, 69-70 Pansy Field, 141 Violet, 142 PAPAVERACEAE, 121 Paper Birch, 94 | |

| Parsley Family, 76-78 | Pilewort, 85 | Polypody Family, 47 | |
|--|---|-------------------------------|--|
| Parsley, Prairie-, 77 | Pimpernel | Polystichum, 45 | |
| Parsnip, 77 | False, 137 | Polytaenia, 77 | |
| Cow-, 77 | Yellow-, 78 | Pomme de Prairie, 111 | |
| Water-, 78 | Pin Cherry, 131 | Pondweed, 72-73, 143 | |
| Parthenocissus, 142 | PINACEAE, 48-49, 143 | Curly, 72 | |
| Partridge-berry, 133 | Pine | Horned, 74 | |
| Partridge-pea, 109 | Jack, 48 | Sago, 73 | |
| Paspalum, 70 | Red, 48 | Pondweed Family, 72-73, 143 | |
| Pasque Flower, 127 | White, 49 | Pontederia, 72 | |
| Pastinaca, 77 | Pine Family, 48, 143 | PONTEDERIACEAE, 72 | |
| Pasture Rose, 131 | Pineapple Weed, 89 | Poplar | |
| Path Rush, 59 | Pine-sap, 106 | Balsam, 134 Silver, 134 | |
| Pea, Perennial, 110 | Pink Dontford 100 | White, 134 | |
| Peach-leaved Willow, 134 | Deptford, 100 | Poppy Family, 121 | |
| Peanut, Hog-, 108 | Lady's-slipper, 62 | Poppy Mallow, 118 | |
| Pearly Everlasting, 81 | Spring Cress, 96 Pink Family, 100-02, 144 | Populus, 134 | |
| Pedicularis, 137 | Pinkweed, 123 | Portulaca, 124 | |
| Pediomelum, 111 | Pinus, 48, 49 | PORTULACACEAE, 124-25 | |
| Pellaea, 43 | Pinweed, 103 | Potamogeton, 72-73, 143 | |
| Pellitory, 140 | Pipsissewa, 106 | POTAMOGETONACEAE, 72-73, 143 | |
| Pennsylvania Sedge, 54, | Pitcher-plant, 135 | Potentilla, 130-31 | |
| Penny Cress, 98 | Pitcher-plant Family, 135 | Poverty Grass, 66 | |
| Pennyroyal | Plains Prickly-pear, 98 | Prairie | |
| American, 115 | Plains Sunflower, 87 | Buttercup, 128 | |
| False, 117 | PLANTAGINACEAE, 122 | Dandelion, 89 | |
| Rough, 115 | Plantago, 122 | Dropseed, 71 | |
| Pennywort, Water-, 77 | Plantain | Gentian, 113 | |
| Penstemon, 137-138 | Bracted, 122 | Hawkweed, 88 | |
| (Pentaphylloides), 130 | Broad-leaved, 122 | Ladies'-tresses, 64 | |
| Penthorum, 105 Repper Water 123 | Downy Rattlesnake-, 62 | Lettuce, 88 | |
| Pepper, Water-, 123 Peppergrass, 97 | Indian-, 84 | Phlox, 122 | |
| Perennial | Robin's-, 86 | Ragwort, 144 | |
| Knawel, 101 | Rugel's, 122 | Rose, 131 | |
| Pea, 110 | : Water-, 49 | : Smoke, 130 : Thistle, 85 | |
| Periwinkle, Common, 78 | Plantain Family, 122 PLATANACEAE, 122 | Violet, 142 | |
| Peruvian Quickweed, 86 | Platanthera, 63-64 | White-fringed Orchid, 64 | |
| (Petalostemon), 109 | Platanus, 122 | Willow, 134 | |
| Phalaris, 70 | Plum | Prairie-clover | |
| Phegopteris, 47 | Canada, 131 | Purple, 109 | |
| Philadelphus, 135 | Wild, 131 | White, 109 | |
| Phleum, 70 | Plumeless Thistle, 84 | Prairie-coneflower, 90 | |
| Phlox, 122 | Poa, 70, 71 | Prairie-dock, 91 | |
| Phlox, 122 | POACEAE, 64-72, 143 | Prairie-parsley, 77 | |
| Blue, 122 | Podophyllum, 94 | Prenanthes, 89-90 | |
| Downy, 122 | Pogonia, 143 | Prickly | |
| Prairie, 122 | Pogonia, Rose, 143 | Gooseberry, 136 | |
| Summer, 122 | Poinsettia, 108 | Lettuce, 88 | |
| Woodland, 122 | Poison-ivy, 76 | Prickly-ash, 134 | |
| Phlox Family, 122 | Poison Sumac, 76 | Prickly-pear | |
| Phragmites, 70 | Pokeweed, 121 | Brittle, 98 | |
| Phryma, 141 | Pokeweed Family, 121 | Plains, 98 | |
| Phyla, 141 Physalic 139 | Polanisia, 99 | : Primrose : Arctic, 125 | |
| Physalis, 139 Physocarpus, 130 | POLEMONIACEAE, 122 Polemonium, 122 | Evening-, 120 | |
| Physostegia, 116 | Polygala, 122-23 | Primrose Family, 125-26 | |
| Phytolacca, 121 | POLYGALACEAE, 122-23 | Primula, 125 | |
| PHYTOLACCACEAE, 121 | POLYGONACEAE, 123-24, 145 | PRIMULACEAE, 125-26 | |
| Picea, 48 | Polygonatum, 61 | Prunella, 116 | |
| Pickerelweed, 72 | Polygonella, 123 | Prunus, 131 | |
| Pickerelweed Family, 72 | Polygonum, 123-24, 145 | (Psoralea), 111 | |
| Pigweed, 75 | Polymnia, 89 | Pteridium, 43 | |
| Winged, 103 | POLYPODIACEAE, 47 | Puccoon, 95 | |
| Pilea, 140 | Polypodium, 47 | Hoary, 95 | |
| | | | |

| Pulsatilla, 127 | Rattlesnake-root, 89 | Prairie, 131 |
|---------------------------------------|--|--|
| Purple | Red | : Swamp, 131 |
| Avens, 130 | Ash, 120 | Rose Family, 128-32, 145 |
| Clematis, 127 | Baneberry, 126 | Rosinweed, 90 |
| Cliff-brake, 43 | Cedar, Eastern, 48 | Rosemary, Bog-, 144 |
| Cockle, 144 | Clover, 111 | Rotala, 118 |
| , , , , , , , , , , , , , , , , , , , | Currant, 136 | |
| Giant-hyssop, 114 | | Rough |
| Loosestrife, 118 | Elder, 100 | Bedstraw, 133 |
| Meadow-rue, 128 | Elm, 140 | Cinquefoil, 130 |
| Melic, 71 | Fescue, 67 | Pennyroyal, 115 |
| Milkweed, 80 | Maple, 74 | White Lettuce, 90 |
| Prairie-clover, 109 | Mulberry, 119 | Rough-fruited Cinquefoil, 130 |
| Twayblade, 63 | Oak, 112 | Rough-leaved Goldenrod, 91 |
| Purple-fringed Orchid, 64 | Pine, 48 | Round-leaved |
| Purplehead Sneezeweed, 87 | Raspberry, 132 | Dogwood, 105 |
| Purslane | Red-osier, 105 | Sundew, 144 |
| | Red-rooted Cyperus, 56 | Rowan, 132 |
| Common, 124 | Red-seeded Dandelion, 92 | |
| Milk-, 107 | 1 | Royal Fern, 47 |
| Speedwell, 138 | Red-stemmed Aster, 83 | Royal Fern Family, 47 |
| Water-, 120 | Redbud, 109 | RUBIACEAE, 133 |
| Purslane Family, 124-25 | Redroot, 128 | Rubus, 131-32, 145 |
| Pussy Willow, 134 | Redtop, 64 | Rudbeckia, 90 |
| Pussytoes, 81 | Reed, 70 | Rue |
| Putty-root Orchid, 62 | Bur-, 73 | Early Meadow-, 128 |
| | Canary Grass, 70 | Purple Meadow-, 128 |
| Pycnanthemum, 116 | : Manna Grass, 68 | Rue-anemone, 128 |
| Pyrola, 106-07 | Reedgrass, Wood, 66 | False, 127 |
| (PYROLACEAE), 106 | | • |
| (Pyrus), 130 | RHAMNACEAE, 128 | Rugel's Plantain, 122 |
| | Rhamnus, 128 | Rumex, 124 |
| | Rhexia, 118 | Running Clubmoss, 46 |
| \mathbf{Q} | Rhus, 76 | Rush |
| Quack Grass, 67 | Rhynchospora, 57 | Aster, 82 |
| Quaking Aspen, 134 | Ribes, 135-36 | Beak-, 57 |
| | Ribgrass, 122 | Common Scouring-, 45 |
| Queen-Anne's-lace, 77 | Rice, Wild, 72 | Dwarf Scouring-, 45 |
| Quercus, 112, 144 | Ricegrass, 69 | Nut-, 58 |
| Quickweed, Peruvian, 86 | Richweed, 114, 140 | Path, 59 |
| Quillwort | Riddell's Goldenrod, 91 | - |
| Lake, 45 | | Smooth Scouring-, 45 |
| Spiny-spored, 45 | River | Soft, 59 |
| Quillwort Family, 45 | Birch, 94 | Spike-, 56-57 |
| 2 ,, | Bulrush, 57 | Toad, 59 |
| - | River-bank Grape, 142 | Wood, 59 |
| R | Robinia, 111 | Rush Family, 58-59 |
| | Robin's-plantain, 86 | Russian-olive, 105 |
| Rabbit-foot Clover, 111 | Rock | Russian-thistle, 103 |
| Ragged Orchid, 64 | Clubmoss, 46 | Rusty Cliff Fern, 45 |
| Ragweed | Cress, Drummond's, 95 | RUTACEAE, 134 |
| Common, 81 | Cress, Hairy, 96 | Rye, 71 |
| Giant, 81 | | |
| Western, 81 | Cress, Lyreleaf, 96 | Wild-, 67 |
| Ragwort | Cress, Smooth, 96 | Ryegrass, 68 |
| Northern, 90 | Elm, 145 | : : |
| | Fern, 47 | ■ S |
| Prairie, 144 | Sandwort, 101 | ■ 5 |
| RANUNCULACEAE, 126-28, 145 | Spikemoss, 47 | Sage, 81, 116 |
| Ranunculus, 127-128 | Rocket | : Wood-, 117 |
| Raspberry | Dame's, 97 | Sage-leaved Willow, 134 |
| Black, 132 | Yellow, 96 | Sagittaria, 49 |
| Dwarf, 132 | Rockrose Family, 103 | Sago Pondweed, 73 |
| Red, 132 | | |
| Ratibida, 90 | Rorippa, 97 | St. John's-wort |
| | | Canadian, 144 |
| | Rosa, 131 | |
| Rattlepod, 109 | ROSACEAE, 128-32, 145 | Common, 104 |
| Rattlesnake | ROSACEAE, 128-32, 145 Rose | |
| Rattlesnake Fern, 46 | ROSACEAE, 128-32, 145 | Common, 104 |
| Rattlesnake | ROSACEAE, 128-32, 145 Rose | Common, 104 Dotted, 104 Giant, 103 |
| Rattlesnake Fern, 46 | ROSACEAE, 128-32, 145 Rose Meadow, 131 | Common, 104 Dotted, 104 |

| St. John's-wort Family, 103-04, 144 | Self-heal, 116 | Small-flowered Crowfoot, 127 |
|-------------------------------------|-----------------------------|------------------------------|
| SALICACEAE, 134-35 | Selkirk's Violet, 142 | Smartweed, 123 |
| Salix, 134-35 | Seneca Snakeroot, 123 | Nodding, 123 |
| Salsola, 103 | Senecio, 90, 144 | Water, 123 |
| Salvia, 116 | Sensitive Fern, 45 | SMILACACEAE, 73 |
| Sambucus, 100 | Setaria, 71 | Smilacina, 61 |
| Sand | Shaggybark Hickory, 114 | Smilax, 73 |
| Cherry, 131 | Sheep Sorrel, 124 | Smilax, Upright, 73 |
| Grass, 72 | Shepherdia, 106 | Smilax Family, 73 |
| Violet, 141 | Shepherd's-purse, 96 | Smooth |
| Sand-spurrey, 101 | Shield Fern, Marginal, 44 | Aster, 82 |
| Sandalwood Family, 135 | Shining | Brome, 65 |
| Sandbar Willow, 134 | Bedstraw, 133 | Cliff-brake, 43 |
| Sandbur, 66 | Clubmoss, 46 | Rock Cress, 96 |
| Sandwort | : Cyperus, 56 | Scouring-rush, 45 |
| Rock, 101 | : Willow, 134 | Sumac, 76 |
| Thyme-leaved, 100 | Shinleaf, 106-107 | White Violet, 141 |
| Woodland, 101 | Shooting Star, 125 | Snakeroot |
| Sanguinaria, 121 | Short's Aster, 83 | Black, 77-78 |
| Sanicula, 77-78 | Showy | Seneca, 123 |
| SANTALACEAE, 135 | Goldenrod, 92 | White, 86 |
| Saponaria, 101-02 | Lady's-slipper, 62 | Snapdragon, Dwarf-, 137 |
| Sarracenia, 135 | Orchis, 62 | Sneezeweed, 80, 87 |
| SARRACENIACEAE, 135 | Shrubby Cinquefoil, 130 | Purplehead, 87 |
| Sarsaparilla | (Sibbaldiopsis), 131 | Snow-on-the-mountain, 108 |
| Bristly, 78 | Siberian Elm, 140 | Snowberry, 100 |
| Wild, 78 | Sicklepod, 95 | Soft Rush, 59 |
| Saw-grass, 53 | Sicyos, 105 | Softstem Bulrush, 58 |
| Saw-leaf Mugwort, 82 | Side-oats Grama, 65 | SOLANACEAE, 139, 145 |
| Saxifraga, 136 | Silene, 101, 144 | Solanum, 139 |
| SAXIFRAGACEAE, 135-36 | Silky | Solidago, 91-92 |
| Saxifrage | Aster, 83 | (Solidago), 86 |
| Golden, 135 | Dogwood, 105 | : Solomon's-seal |
| Swamp, 136 | Silphium, 90-91 | False, 61 |
| Saxifrage Family, 135-36 | Silver | Large, 61 |
| Scarlet | Maple, 74 | Small, 61 |
| Oak, 112 | Poplar, 134 | Sonchus, 92 |
| Painted-cup, 137 | Silvery | Sorbaria, 132 |
| Schizachne, 71 | Cinquefoil, 130 | Sorbus, 132 |
| Schizachyrium, 71 | Glade Fern, 44 | Sorghastrum, 71 |
| Schweinitz's Cyperus, 56 | Sinapsis, 97 | Sorrel |
| Scirpus, 57-58 | Sisymbrium, 97 | Common Wood-, 121 |
| Scleranthus, 101 | Sisyrinchium, 58 | Sheep 124 |
| Scleria, 58 | Sium, 78 | : Violet Wood-, 121 |
| Scouring-rush | Six-weeks Fescue, 72 | Wood-, 121 |
| Common, 45 | Skullcap | Sow-thistle, 92 |
| Dwarf, 45 | Common, 116 | SPARGANIACEAE, 73 |
| Smooth, 45 | Heart-leaved, 116 | Sparganium, 73 |
| Screw-stem, 112 | Mad-dog, 116 | Spartina, 71 |
| Scrophularia, 138 | Small, 116 | Spatter-dock, 119 |
| SCROPHULARIACEAE, 136-38 | Skunk Currant, 136 | Spearmint, 115 |
| Scutellaria, 116 | Skunk-cabbage, 50 | Spearscale, 102 |
| Secale, 71 | Slender | Speckled Alder, 94 |
| Sedge | Cliff Brake, 43 | (Specularia), 99 |
| Bottlebrush, 51 | Ladies'-tresses, 64 | Speedwell |
| Drooping, 54 | Lip Fern, 43 | Common, 138 |
| Fringed, 51 | Willow, 135 | Corn, 138 |
| Hops, 53 | Slender-stemmed Cyperus, 56 | Marsh, 138 |
| Pennsylvania, 54 | Slippery Elm, 140 | Purslane, 138 |
| Three-way, 56 | Small | Thyme-leaved, 138 |
| Tussock, 55 | Bedstraw, 133 | Water, 138 |
| Sedge Family, 50-58, 143 | Skullcap, 116 | Spergularia, 101 |
| Sedum, 105, 144 | Solomon's-seal, 61 | Sphenopholis, 71 |
| Selaginella, 47 | White Aster, 82 | Spiderwort, 50 |
| SELAGINELLACEAE, 47 | Yellow Lady's-slipper, 62 | Spiderwort Family, 50 |
| • | | |

| Spike Lobelia, 99 | . Mossy, 144 | ■ T |
|---|--------------------------------------|----------------------------------|
| Spike-rush, 56-57 | Storksbill, 113 | : |
| Spikemoss, Rock, 47 | Straw-colored Cyperus, 56 | : Taenidia, 78 |
| Spikemoss Family, 47 | Strawberry | Talinum, 125 |
| Spikenard, 79 | Wild, 129 | Tall |
| Spinulose Wood Fern, 44 | Woodland, 129 | Bellflower, 98 |
| Spiny-spored Quillwort, 45 | Streptopus, 61 | Boneset, 86 |
| Spiraea, 132 | Strophostyles, 111 | Buttercup, 127 |
| Spiraea, False, 132 | Sugar Maple, 75 | Cinquefoil, 130 |
| Spiranthes, 64 | Sullivantia, 136 | Fescue, 67 |
| Spirodela, 59 | Sullivantia, 136 | Milkweed, 79 |
| Spleenwort | Sumac | Northern Bog Orchid, 63 |
| Ebony, 43 | Fragrant, 76 | Thistle, 84 |
| Maidenhair, 43 | Poison, 76 | Tamarack, 48 |
| Spleenwort Family, 43 | Smooth, 76 | Tanacetum, 92 |
| Sporobolus, 71-72 | Staghorn, 76 | (Tanacetum), 89 |
| Spotted | : Winged, 76 | Tansy, 92 |
| Coral-root, 62 | Sumac Family, 76 | Tansy Mustard, 97 |
| Knapweed, 84 | Summer | : Taraxacum, 92 |
| Touch-me-not, 93 | Grape, 142 | TAXACEAE, 49 |
| Wild Bergamot, 115 | Phlox, 122 | Taxus, 49 |
| Spreading Dogbane, 78 | Summer-cypress, 103 | Tea |
| Spring | Sundew, Round-leaved, 144 | Labrador-, 106 Mexican-, 102 |
| Beauty, 124 | Sundew Family, 144 | • |
| Cress, 96 Cress, Pink, 96 | Sundrops, 120 Sunflower | New Jersey, 128 Oswego-, 115 |
| Spruce, Norway, 48 | Ashy, 87 | Teaberry, 106 |
| Spurge | Big-toothed, 87 | Tearthumb |
| Cypress, 108 | Common, 87 | Arrow-leaved, 124 |
| Flowering, 108 | Downy, 87 | Halberd-leaved, 123 |
| Geyer's, 107 | Early, 87 | Tephrosia, 111 |
| Hairy, 108 | Naked-stemmed, 87 | Teucrium, 117 |
| Toothed, 108 | Plains, 87 | Thalictrum, 128 |
| Spurge Family, 107-08 | Woodland, 87 | THELYPTERIDACEAE, 47 |
| Spurrey, Sand-, 101 | Swamp | Thelypteris, 47 |
| Squawroot, 121 | Buttercup, 127 | Thimbleweed, 126 |
| Squirrel-corn, 121 | Candles, 125 | Thistle |
| Squirrel-tail Grass, 68 | Dewberry, 132 | Bull, 85 |
| Stachys, 116-17 | Dock, 124 | Canada, 85 |
| Staghorn Sumac, 76 | Loosestrife, 117 | Hill's, 85 |
| Staphylea, 139 | : Milkweed, 79 | Plumeless, 84 |
| STAPHYLEACEAE, 139 | Rose, 131 | Prairie, 85 |
| Star | Saxifrage, 136 | Russian-, 103 |
| Blazing, 89 | : Thistle, 85 | Sow-, 92 |
| Duckweed, 59 | White Oak, 112 | Swamp, 85 |
| Shooting, 125 | Swamp Candles, 125 | Tall, 84 |
| Star-flower, 126 | Sweet | : Thlaspi, 98 |
| Star-grass, Water, 72 | Cicely, 77 | Three-awn Grass, 65 |
| Stargrass, Yellow, 60 | Coneflower, 90 | Three-birds Orchid, 64 |
| Star-of-Bethlehem, 61 | Grass, 68 | Three-seeded Mercury, 107 |
| Starwort, Water-, 98 | White Violet, 141 | Threesquare, 58 |
| Starry Campion, 101 | Sweet-clover | Three-toothed Cinquefoil, 131 |
| Stellaria, 101-02, 132 | White, 111 | Three-way Sedge, 56 |
| Stickseed, 95 | Yellow, 111 | Thuja, 48 |
| Stickseed, Virginia, 95 | Sweet-Fern, 119 | Thyme-leaved |
| Sticky Catchfly, 101 | Sweet-Fern Family, 119 | Sandwort, 100 |
| Stiff Centian 113 | Sweet-flag, 50 | Speedwell, 138 |
| Gentian, 113 Goldenrod, 92 | Sweet-scented Bedstraw, 133 | THYMELAEACEAE, 139 |
| • | Switch Grass, 70 | Tick-trefoil, 109 |
| Stinging Nettle, 140 Stink Grass, 67 | Sycamore, 122 | Illinois, 109 |
| | Sycamore Family, 122 | Tickeged 85 |
| Stinking Chamomile, 81 Stipa, 72 | Symphoricarpos, 100 Symplocarpus, 50 | Tickseed, 85 Lance-leaved, 85 |
| Stonecrop, 105 | (Synosma), 84 | Tiger Lily, 60 |
| Ditch, 105 | Syringa, 120 | Tilia, 139 |
| | | |

| TILIACEAE, 139 | ■ U | Prairie, 142 |
|-----------------------------------|---|--|
| Timothy, 70 | ULMACEAE, 139-40, 145 | Sand, 141 Selkirk's, 142 |
| Wild-, Marsh, 68 | Ulmus, 140, 145 | Smooth White, 141 |
| Tinker's-weed, 100 | (UMBELLIFERAE), 76-78 | Sweet White, 141 |
| Toad Rush, 59 | Ùpland | Yellow, 142 |
| Toadflax | Bent, 65 | Violet Family, 141-42, 145 |
| Bastard-, 135 Dalmatian, 137 | Boneset, 86 | Violet Wood-sorrel, 121 |
| Old-field, 137 | Loosestrife, 125 | Viper's Bugloss, 144 |
| Tobacco, Indian-, 98 | : Willow, 134 | Virginia |
| Tooth-cup, 118 | Upright Smilax, 73 | Anemone, 126 |
| Toothbrush Grass, 65 | Urtica, 140 | Creeper, 142 |
| Toothed Spurge, 108 | URTICACEAE, 140 | Stickseed, 95 |
| Toothwort, 97 | : Utricularia, 117 : Uvularia, 61 | Virgin's-bower, 127 |
| Touch-me-not | : Gountu, 01 | VITACEAE, 142 Vitis, 142 |
| Pale, 93 | ¥.7 | Vitis, 142 Vulpia, 72 |
| Spotted, 93 | ■ V | : Vuipui, 72 |
| Touch-me-not Family, 93 | : Vaccaria, 102 | TA7 |
| (Tovara), 124 | Vaccinium, 107 | ■ W |
| Tower Mustard, 96 | Valerian, 140 | : Wahoo, 102 |
| Toxicodendron, 76 | Valerian Family, 140 | Walking Fern, 43 |
| Tradescantia, 50 | Valeriana, 140 | Walnut, Black, 114 |
| Tragopogon, 92 | VALERIANACEAE, 140 | Walnut Family, 114 |
| Trailing Arbutus, 106 | Vallisneria, 58 | Water |
| Treacle Mustard, 97 Trefoil | Velvet-leaf, 118 Velvet-leaved Blueberry, 107 | Crowfoot, White, 127 |
| Bird's-foot, 110 | Venus' Looking-glass, 99 | Crowfoot, Yellow, 127 Dock, 124 |
| Illinois Tick-, 109 | Verbascum, 138 | Horsetail, 45 |
| Triadenum, 104 | Verbena, 141, 145 | Smartweed, 123 |
| Trichostema, 117 | VERBENACEAE, 141, 145 | Speedwell, 138 |
| Trientalis, 126 | Verbesina, 93 | Star-grass, 72 |
| Trifolium, 111 | Vernonia, 93 | Water-celery, 58 |
| Trillium, 61 | Veronica, 138 | Watercress, 97 |
| Trillium | Veronicastrum, 138 | Water-hemlock, 77 |
| Large, 61 | Vervain | Water-horehound, 115 |
| Midland, 61 | Blue, 141 Hoary, 141 | Waterleaf, 114 |
| Nodding, 61 | Nettle-leaved, 141 | Waterleaf Family, 114 |
| Triodanis, 99 | White, 141 | Water-lily, White, 119 Water-lily Family, 119 |
| Triosteum, 100 | Vervain Family, 141 | Water-marigold, 89 |
| Triphora, 64 Triplasis, 72 | Vetch | : Water-meal, 59-60 |
| Trout Lily | American, 111 | Water-milfoil, 113 |
| White, 60 | Common, 112 | : Water-milfoil Family, 113 |
| Yellow, 60 | Crown-, 109 | Water-naiad, 61 |
| True Forget-me-not, 95 | Hairy, 112 | : Water-parsnip, 78 |
| Tsuga, 49 | Milk-, 108 Tufted, 111 | Water-pennywort, 77 |
| Tubercled Orchid, 63 | Wood, 111 | Water-pepper, 123 |
| Tufted | Vetchling, 110 | Water-plantain, 49 Water-plantain Family, 49 |
| Loosestrife, 125 | Viburnum, 100 | : Water-purslane, 120 |
| Vetch, 111 | Viburnum, Maple-leaved, 100 | Water-shield, 119 |
| Tumble (7 | Vicia, 111, 112 | Water-starwort, 98 |
| Grass, 67 | Vinca, 78 | Water-starwort Family, 98 |
| Mustard, 97 | Vine Honeysuckle, 99 | Waterweed, 58 |
| Tumbleweed, 75 Turtlehead, 137 | Viola, 141-42, 145 | Wavy-leaved Milkweed, 79 |
| Tussock Sedge, 55 | VIOLACEAE, 141-42, 145 | Wayfaring Tree, 100 |
| Twayblade | Violet | Wedgegrass, 71 |
| Green, 63 | Arrow-leaved, 142 Canada, 141 | Western Ragweed, 81 |
| Purple, 63 | Confederate, 142 | Wheat Cow-, 137 |
| Twinflower, 99 | Dog, 141 | Indian-, 122 |
| Twinleaf, 93 | Hairy Blue, 142 | Wheatgrass, 67 |
| Twisted Stalk, 61 | Lance-leaved, 141 | White |
| Typha, 74 | Marsh, 141 | Ash, 119 |
| TYPHACEAE, 74 | Pansy, 142 | Aster, Flat-topped, 83 |
| : | • | . 11 |

| Aster, Small, 82 | Peach-leaved, 134 |
|----------------------------------|-----------------------------------|
| Avens, 129 | Prairie, 134 |
| Baneberry, 126 | Pussy, 134 |
| Baptisia, 109 | Sage-leaved, 134 |
| Camas, 61 | Sandbar, 134 |
| Cedar, Eastern, 48 | Shining, 134 |
| Clover, 111 | Slender, 135 |
| Elm, 140 | |
| | Upland, 134 |
| Gentian, 112 | White, 134 |
| Grass, 68 | Willow Family, 134-35 |
| Lady's-slipper, 62 | : Willow-herb, Linear-leaved, 120 |
| Lettuce, Glaucous, 90 | : Wing-stem, 93 |
| Lettuce, Rough, 90 | Winged |
| Mulberry, 119 | Pigweed, 103 |
| Oak, 112 | Sumac, 76 |
| Oak, Swamp, 112 | Winterberry, 78 |
| Pine, 49 | Wire-grass, 53 |
| Poplar, 134 | Witch Grass, 69 |
| Prairie-clover, 109 | Fall, 66 |
| Snakeroot, 86 | |
| | Witch-hazel, 113 |
| Sweet-clover, 111 | Witch-hazel Family, 113 |
| Trout Lily, 60 | Wolfberry, 100 |
| Vervain, 141 | : Wolffia, 59, 60 |
| Violet, Smooth, 141 | Wood, 142 |
| Violet, Sweet, 141 | : Anemone, 126 |
| Water Crowfoot, 127 | Fern, Crested, 44 |
| Water-lily, 119 | Fern, Glandular, 44 |
| Willow, 134 | Fern, Spinulose, 44 |
| White-fringed Prairie Orchid, 64 | . = = |
| Whitlow-grass, 144 | Grass, Long-awned, 65 |
| | Lily, 60 |
| Whitlow-wort, 101 | Mint, 114, 144 |
| Whorled | Nettle, 140 |
| Loosestrife, 125 | Reedgrass, 66 |
| Milkweed, 80 | Rush, 59 |
| Vicopy, 139 | Vetch, 111 |
| Vild | Wood Fern Family, 43-45 |
| Bergamot, 115 | Wood-sage, 117 |
| Bergamot, Spotted, 115 | Wood-sorrel, 121 |
| Black Cherry, 131 | Common, 121 |
| Calla, 50 | Violet, 121 |
| Carrot, 77 | |
| | Wood-sorrel Family, 121 |
| Columbine, 126 | Woodbine, 142 |
| Crab, 130 | Woodland |
| Garlic, 60 | : Horsetail, 45 |
| Geranium, 113 | Lettuce, 88 |
| Ginger, 79 | Phlox, 122 |
| Iris, 58 | Sandwort, 101 |
| Leek, 60 | Strawberry, 129 |
| Lettuce, 88 | Sunflower, 87 |
| Licorice, 133 | Woodsia, 45 |
| Onion, 60 | • |
| | Woolly Milly and 70 |
| Onion, Nodding, 143 | Woolly Milkweed, 79 |
| Plum, 131 | Wormseed Mustard, 97 |
| Rice, 72 | Wormwood, 81 |
| Sarsaparilla, 78 | : |
| Strawberry, 129 | ■ X |
| Yam, 58 | : ■ ∧ |
| Vild-cucumber, 105 | Xanthium, 93 |
| Vild-rye, 67 | XYRIDACEAE, 74 |
| Vild-timothy, Marsh, 68 | |
| Villow | Xyris, 74 |
| | <u>:</u> |
| Balsam, 135 | ■ Y |
| Bebb's, 134 | : - ,- |
| Black, 135 | Yam, Wild, 58 |
| Bog, 135 | Yam Family, 58 |
| Crack, 134 | Yarrow, 80 |

Yellow
Birch, 94
Clover, 111
Cress, 97
Foxtail, 71
Giant-hyssop, 114
Lady's-slipper, Large, 62
Lady's-slipper, Small, 62
Rocket, 96
Star-grass, 60
Sweet-clover, 111
Trout Lily, 60
Violet, 142
Water Crowfoot, 127
Yellow-eyed-grass, 74
Yellow-eyed-grass Family, 74
Yellow-pimpernel, 78
Yew, American, 49
Yew Family, 49

\mathbf{Z}

Zannichellia, 74
ZANNICHELLIACEAE, 74
Zanthoxylum, 134
Zea, 72
Zig-zag
Aster, 83
Goldenrod, 91
Zigadenus, 61
Zizania, 72
Zizia, 78

| | • | | |
|--|---|--|---|
| | | | |
| | | | |
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