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The Vascular Flora of the Potomac River Watershed of King George County, Virginia

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ABSTRACT

The results of two floristic studies of King George County, Virginia, are combined into an annotated checklist. Field work was initiated in 1983–84 with a study of Caledon Natural Area, a 2,500-acre tract with 3.5 miles of frontage on the Potomac River. Collecting resumed in 1991 and 1992 to include other portions of the county drained by the Potomac River. The study area contains a wide variety of habitats including dry upland woods, mesic ravines, low elevation river flats, beaches, swamps, marshes, and creeks; creeks and marshes include both brackish and freshwater environments. The Potomac River watershed of King George County harbors a diverse assemblage of plants; the checklist includes documentation for 918 species of vascular plants classified in 466 genera and 130 families. This total includes 418 species that at the time of collection were the first records of occurrence in King George County.

INTRODUCTION

King George County is the northernmost county located entirely within the Coastal Plain of Virginia (Figure 1). It is situated on the northwestern (basal) portion of the Northern Neck, a five-county peninsula bounded by the Potomac and Rappahannock Rivers and their confluence with the Chesapeake Bay. King George County is bounded by the Potomac River to the north, Stafford County to the west, the Rappahannock River to the south, and Westmoreland County to the east.

King George is a rural county with a total area of 113,920 acres (Isgrig and Strobel 1974), about half of which is drained by the Potomac River. According to a recent pamphlet produced by the Virginia Department of Forestry, approximately 63 percent of the county, or 73,029 acres, is wooded; the dominant forest type is oak-hickory covering 53,529 acres. Much of the nonforested area of the county is devoted to human enterprises, including agriculture, homesites, commerce, and the Dahlgren Division of the Naval Surface Warfare Center. There is one large region of protected land along the Potomac River, the Caledon Natural Area.

The Caledon Natural Area is a tract of 2,500 acres along 3.5 miles of river frontage that has been reserved to protect nesting habitat of the Bald Eagle.
This area contains many of the same land forms and habitats found throughout the portion of King George County drained by the Potomac River. Much of the Caledon Natural Area is wooded, and, judging by the diameters of the trees, portions of this area contain some of the oldest woodlands in the Coastal Plain of Virginia (S. Ware, pers. comm.). Ware (1984) gives detailed descriptions of specific sites and habitats within the Caledon reserve.

This study documents the flora that occurs in the Potomac River watershed of King George County and contributes to knowledge of the Virginia flora. The checklist of species documented in the study area should also provide baseline
data for informed management of natural resources of the county in general and of the Caledon Natural Area in particular.

GEOLOGY

The Coastal Plain of Virginia is underlain by a thick wedge of sediments deposited upon eroded igneous and metamorphosed rocks of Paleozoic and Precambrian age and sedimentary rocks of Triassic age. The surface of the basement rocks and overlying sedimentary strata dip gently eastward from the Fall Zone towards the Atlantic Ocean. Coastal Plain sediments of Cretaceous to Holocene age can be found as outcrops or surface deposits; older strata are not exposed in the region. The age of sediments exposed at any given site in the Coastal Plain depends largely on the distance from the Fall Zone and the extent that stream erosion has cut vertically into the sedimentary strata. Within King George County, Mesozoic and early Paleocene deposits are not exposed at the surface; surface geology thus consists of sediments ranging from late Paleocene to Holocene (Powars 1988). Tertiary formations found in King George County are, in ascending stratigraphic order, the Paleocene Aquia, early Eocene Marlboro Clay, Eocene Nanjemoy, Miocene Calvert and Choptank, late Miocene Eastover, and Pliocene Yorktown. The Aquia, Marlboro, and Nanjemoy deposits consist of glauconitic sands and clays, fossil shell beds, and some denser limestones (Teifke 1973) that accumulated in a shallow oceanic shelf environment (Powars 1988). The Calvert, Choptank, and Yorktown Formations consist of fossiliferous clays and silty clays (Teifke 1973), and probably formed along a marine margin as fluvial deltaic or estuarine deposits (Powars 1988). Plant fragments, fish scales, and bones and teeth of fish and marine mammals can be found locally throughout these sediments (Powars 1988). Plio-Pleistocene formations underlie terraces along the Potomac and Rappahannock Rivers, and their major tributaries. These formations are composed of basal sands and gravels that grade upwards into various admixtures of silt, clay, and sand that were deposited under fluvial-estuarine conditions during interglacial stages (G. Johnson, pers. comm.).

TOPOGRAPHY, SOILS, and PLANT HABITATS

Agents of erosion have carved through the sedimentary layers of King George County, transforming its surface into a complex topography of uplands, terraces, steep ravines, escarpments, and flat lowlands. Recent erosion and sedimentation have also produced a variety of shoreline features including beaches, spits, and marshes. Because sea level has not been constant during the erosional history of the Coastal Plain, stream gradients and their erosional capacity have varied through time. Likewise, erosion by wave action and other shore-line processes have occurred at various elevations both higher and lower than present sea-level. The result is highly varied topography supporting a wide range of habitats and diverse plant species.

Uplands in the county are highly dissected and take the form of irregular, rolling-hilly ridges mostly 100–200 feet above sea level and less than one quarter mile wide. Several major roads in the county follow these ridges. Upland areas consist of sediments of the Calvert Formation, often overlain with thin and highly

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eroded clays, sands, and gravels of late Miocene to Pleistocene age (Powars 1988). Upland regions are relatively xeric and develop deep, well-drained soils with sandy to heavy clay loam subsoils (Isgrig and Strobel 1974). Undisturbed, uplands support an oak-hickory forest; however, large portions of this region have been cleared for agriculture, homesteads, and commercial enterprises. Some characteristic species of upland woods include a variety of oaks, such as Quercus alba, Q. velutina, Q. coccinea, Q. falcata, Q. rubra, Q. marilandica, and Q. stellata, plus Liriodendron tulipifera, Fagus grandifolia, Carya tomentosa, and C. glabra. Shrubs such as Kalmia latifolia, Gaylussacia frondosa and Vaccinium pallidum are common elements of the understory.

Depending on the erosional history of a given area, flanks of uplands may be highly dissected with steep-sided ravines, skirted with descending step-like terraces, or abruptly cut by steeply-sloped river bluffs or escarpments. Ravines form by headward erosion of streams and are abundant in all but the low-lying easternmost portion of the county. Ravine formation was enhanced when periods of low sea level resulted in stream gradients steeper than those present now. Ravines have cut through as much as 150 feet of sediments, sometimes leaving extremely steep side walls. Vegetation in some ravines includes extremely large, old trees that, presumably, were protected from timbering by the steepness of the terrain. Ravines tend to have relatively rich, mesic soils and support a diverse array of plants. Some notable species include ferns and fern allies such as Adiantum pedatum, Deparia acrostichoides, Diplazium pycnocarpon, Dryopteris carthusiana, and Huperzia lucidula, and spring-blooming wildflowers and ephemerals such as Asarum canadense, Dicentra cucullaria, Dentaria heterophylla, Orchis spectabilis, and Stellaria pubera. Composition of the herb layer of ravine slopes can vary considerably depending on orientation and exposure to the sun. Some typical woody plants of ravine bottoms include Asimina triloba, Lindera benzoin, Nyssa sylvatica, and Viburnum nudum.

The formation of modern river bluffs on the Potomac River is graphically displayed along the western shore of Mathias Point Neck and at Bull Bluff, near the mouth of Potomac Creek (Figure 1). Here, steep banks up to 100 feet in elevation form by wave action which erodes the loosely consolidated sedimentary layers at the base of the bluff, thus undercutting the bank. Erosion by wave action and deposition of sediments also produces a broad, shallow, and relatively flat river bottom near the shore. Locally, narrow beaches form at bases of bluffs; at Bull Bluff these are littered with eroded fossils, mostly gastropod shells (or their casts) and shark teeth. River bluffs provide diverse habitats ranging from completely bare areas recently exposed by mass movement of sediments, to slumped overburden with toppled trees and regenerating vegetation, or stable areas well-covered by vegetation. Bluff faces may be dry, or moist from seepage. Woody plants of river bluffs include Cornus ammomum, Kalmia latifolia, Hydrangea arborescens, and Viburnum acerifolium; herbs include Bidens cernua, Heuchera americana, and Solidago bicolor. At Bull Bluff, Equisetum arvense and Aster cordifolius are prominent colonizers of slumped bluff faces.

Escarpments and terraces in the study area formed by the same processes described above for river bluffs, but under past conditions of elevated sea levels (relative to present conditions) and different currents. As sea level fell, broad
depositional surfaces emerged as terraces flanking the former bluff. Falling sea levels during the Pleistocene produced three such terraces along the Potomac River in King George County (Powars 1988). The upper two terraces are geographically restricted and, in terms of vegetation, they essentially form a continuation of upland habitat.

In contrast, the lowest wave-cut platforms, the river flats, are extensive, including much of Mathias Point Neck and Tetotum Flats in the eastern part of the county (Figure 1). This lowland area abuts an impressive 7-mile long, concave, east-facing escarpment—a former river bluff. Additional smaller “flats” occur along the Potomac River, for example, the Chotank Creek area, and three narrow strips of lowland at Belvedere, Fairview, and Somerset Beaches (Figure 1). These platforms are elevated about 10–25 feet above sea-level. From Potomac Creek (the northwestern boundary of the county) to approximately Somerset Beach, the lowlands include outcrops of Mattaponi Formation sediments; to the east and south, lowlands along Chotank Creek, Mathias Point Neck, and Tetotum Flats reveal Nanjemoy Formation sediments (Teifke 1973). Pleistocene cover is common in lowland regions. Subsoils in lowland areas are broadly similar to those of uplands, but as a result of the low elevation, minimal relief, and high clay levels, drainage at the surface ranges from moderate to poor (Isgrig and Strobel 1974). Undisturbed river flat areas thus support swamps or mesic forest habitats. The “White Oak Swamp” located near the headwaters of Chotank Creek (Caledon Natural Area) is a good example. This area has not been timbered for many years. The forest is dominated by large specimens of Quercus alba, with Nyssa sylvatica and Quercus falcata in appreciable numbers. Ilex opaca is the primary understory species. In addition to assorted ericaceous shrubs, this community is characterized by such species as Chasmanthium laxum, Claytonia virginica, and several species of Carex.

Elsewhere, portions of the river flats are devoted to agriculture, but much of this low elevation area is forested and subject to timbering, primarily for Loblolly Pine (Pinus taeda) and oaks (Quercus spp.). In one recently timbered area with somewhat hydric soils an extensive community of ericaceous plants has developed; this early successional ericad thicket includes Gaylussacia spp., Kalmia latifolia, Vaccinium spp. and Chimaphila maculata, plus non-ericads such as Erianthus alopecuroides, Hypericum hypericoides, several sedges (most notably Carex glaucescens) and Juncus secundus. The community of Dahlgren and the adjacent Naval Surface Warfare Center occupies the river flats at the mouth of Upper Machodoc Creek (Figure 1).

Because of its size and proximity, the Potomac River exerts great influence on creeks, swamps, marshes, and beaches found along the periphery of lowland river “flats.” Freshwater release of the Potomac River varies with precipitation, and this factor, along with tides and winds, affects the transition zone between fresh and brackish water. This transition zone shifts from the Route 301 Bridge (below Mathias Point) in King George County to a region upriver near Quantico, Virginia (Miller 1985). Thus, within the study area, river water at the surface may be fresh or brackish to Mathias Point but is usually brackish downriver from there (Miller 1985). The river consists of an often narrow channel bordered by wide, shallow shoals, and has an average depth of six meters; however, an
extreme depth of 36.5 meters occurs in the channel near Mathias Point (Figure 1) (Carter et al. 1983). Extensive river shoals provide habitat for a number of submersed aquatic plants, including Ceratophyllum demersum, Elodea nuttallii, Myriophyllum spicatum, Potomagon perfoliatus var. bupleuroides, and Vallisneria americana, which were collected as wash-ups along the shore. Records of additional aquatic species (Potamogeton pectinatus, P. pusillus, and Zannichellia palustris) from the King George County shoreline of the Potomac River were obtained by dredging and reported by Carter et al. (1983), but we have seen no herbarium vouchers from their study, so these additional species are not included in the checklist.

Marshes, often in the form of point bars in the lower reaches of creeks, formed during the Holocene by flooding, stream flow, and meandering of the creek channel (Onuschak 1973). Brackish marshes generally develop towards the mouths of creeks, especially in the eastern portion of the county. Notable are the brackish marshes of Chotank, Gambo, Williams, Upper Machodoc, and Rosier Creeks (Figure 1). However, one large brackish marsh, at Persimmon Point (Figure 1) on the east side of Mathias Point Neck, is not associated with an obvious creek mouth; its dendritic interior margin suggests that this marsh was formed by flooding of the headwaters of a former creek system. Characteristic plants of brackish marshes in the study area include Amaranthus cannabinus, Aster subulatus, A. tenuifolius, Baccharis halimifolia, Iva frutescens, Kosteletskyia virginica, Pluchea purpureascens, Scirpus robustus, S. validus, and Spartina spp.

Freshwater marshes intergrade with swamps upstream from the brackish marshes of the same tributaries mentioned above plus Mattox Creek (the brackish downstream portions of which occur in adjacent Westmoreland County). Freshwater marshes are also present along most of the lower reaches of Dirt Bridge Run and Passapatanzy Creek in the western portion of the county (Figure 1). Herbaceous vegetation of freshwater marshes includes Alisma subcordatum, Galium obtusum, Leersia oryzoides, L. virginica, Limnion spongiosa, Ludwigia palustris, Lysimachia terrestris, Peltandra virginica, Pontederia cordata, Saururus cernuus, and Typha latifolia; woody plants at the periphery of marshes include Acer rubrum, Cephalanthus occidentalis, Hibiscus moscheutos, Nyssa sylvatica, and Salix spp. Maple-gum (Acer rubrum/Nyssa sylvatica) swamps are present along the lower reaches of some of the larger streams, most notably on Upper Machodoc and Peppermill Creeks (Figure 1).

Within Caledon Natural Area (Figure 1), swamps on the tributary draining the western portion of the reserve are dominated by Acer rubrum and Fraxinus pennsylvanica. In contrast, the slightly brackish upper marshes of Chotank Creek give way to a swamp dominated by lowland oaks, Acer rubrum, and Nyssa sylvatica. The oak species include Quercus phellos, Q. palustris, Q. pagoda and Q. lyrata. This swamp was the only site in the study area where the state-rare grass Glyceria pallida was found; Isoetes engelmannii was also present in the channels of the intermittent streams.

Along the Potomac River, beaches vary in extent from narrow to virtually nonexistent along Bull Bluff to broad expanses 30 feet or more wide along the eastern shore of Mathias Point Neck, near the US Route 301 Bridge (Figure 1). Amorpha fruticosa is a characteristic shoreline plant over much of the study
Ammophila breviligulata, Cakile edentula, Cyperus odoratus, Euphorbia polygonifolia, Equisetum hyemale, Salsola kali, and Xanthium strumarium are important elements of the broad sandy beach located near the US Route 301 Bridge. At the water's edge large stands of Iva frutescens, and scattered clumps of Justicia americana, and Lilaeopsis chinensis can be found.

On the western-most portion of the Potomac River shore at Caledon Natural Area, floristically interesting linear swales have formed between the base of the bluff and the beach. The most shaded of these are dominated by Iris pseudacorus, but others support a diverse flora including Peltandra virginica, Saururus cernuus, Carex comosa, Polygonum densiflorum, Eryngium aquaticum, and Cladium mariscoides.

While ruderal habitats abound in all physiographic regions of the county, one human-impacted habitat in the study area is particularly interesting. An extensive midden-mound of oyster shells, a result of foraging by Algonquin-heritage native peoples of the Powhatan Confederacy (Metcalf 1982) exists at Stony Point, a prominence near the mouth of Rosier Creek (Figure 1). Presently, the vicinity of the midden has two residences, some outbuildings, and a large regularly mowed lawn. Two remarkable waifs persist within the lawn and along its edges. The first of these, Ajuga chamaepitys, a species from the Mediterranean, had been recorded previously in only three Virginia Counties (Gloucester, Westmoreland, and York) (Harvill et al. 1992). The other is Gaura parviflora, a species normally found much further south, from Georgia to Mississippi; our collections constitute a state record for this plant. Given the setting, it is likely that human enterprise is responsible for the presence of these waifs at Stony Point and, further, their persistence may be related to the unusual midden-mound substrate. The shell midden area also yielded collections of Chondrilla juncea, Echium vulgare, Euphorbia dentata, Geranium molle, and Opuntia humifusa which were uncommon or unknown elsewhere in the study area.

Notable exotic species found in the study area include two cultivated vines, Akebia quinata and Cocculus carolinus, that have naturalized in the vicinity of building sites at the Caledon Natural Area. Paulownia tomentosa can be found throughout the area, sometimes reaching marketable dimensions. Euphorbia marginata was found along a stretch of railroad tracks at the Dahlgren Division of the Naval Surface Warfare Center.

CLIMATE

Climatological data for the county are not available; however, the climate is similar to or, perhaps, slightly more temperate than that of Fredericksburg located in Spotsylvania County to the west. In Fredericksburg average annual precipitation is 40.09 inches, average maximum temperatures range from 45.8 (degrees Fahrenheit) in January to 89.1 in July, and the growing season lasts 178 days (Virginia Cooperative Extension Service 1984).

METHODS

The checklist is a combination of the results of two originally separate studies. Ware (1984) produced a checklist of 625 species of vascular plants from the Caledon Natural Area based on collections made from March to November,
1983 with some additional collections from April, 1984; this was one of several baseline studies of the biota of the reserve funded by the Virginia Division of Parks and Recreation. Simmons collected in the Mathias Point Neck and Upper Machodoc Creek areas from March to December, 1991, and all three authors collected at various sites throughout the Potomac River watershed of King George County from March to October, 1992. Voucher specimens from Caledon Natural Area are deposited in the herbarium of the College of William and Mary (WILLI) with duplicates at Caledon Natural Area. Most other collections are deposited in the herbarium of the University of Richmond (URV), with some duplicates at (WILLI). The checklist also includes some records from the George Mason University herbarium (GMUF); these supplemental records are restricted to those taxa collected within the study area but not found by the present authors.

Specimens were identified from Bailey (1949), Fernald (1950), Gleason (1952), Gleason & Cronquist (1991), Hitchcock (1951), Radford et al. (1968), and Steyermark (1963). Origins of non-native species were determined according to Bailey (1949) and Gleason (1952).

All taxa at the division and class levels follow Flora North America (Flora North America Editorial Committee 1993), which was also followed for nomenclature and family circumscription of ferns and fern allies. Names and taxonomy for Coniferophyta and Magnoliophyta follow Harvill et al. (1992) with the following exceptions: Carex annectens is distinguished from C. vulpinoides; Chasmanthium is distinguished from Uniola; Penthorum is placed in Penthoraceae as per Haskins and Hayden (1987); Quercus pagoda is distinguished from Q. falcata; and species grouped into Viola palmata are distinguished as per Gleason and Cronquist (1991).

**RESULTS OF FLORISTIC STUDY**

The vascular plant collections from the study area total 918 species, included within 466 genera and 130 families. In the course of this project, approximately 418 species or 45.5 percent of the total in the checklist were documented for the first time to occur in King George County. There were 279 county records from Caledon Natural Area collections made in 1983-84, including 85 not previously reported at that time for any county in the Northern Neck; these records were incorporated into Harvill et al. (1986). An additional 139 new county records, including 30 for the Northern Neck, resulted from the 1991–92 collections, and many of these were incorporated into Harvill et al. (1992). One state record, Gaura parviflora, is included in the checklist. Introduced species number 199 which represents 21.7 percent of the total. Ferns and fern allies comprise 3.5 percent (32) of the species, Coniferophyta 0.4 percent (4), Liliopsida 29 percent (267) and Magnoliopsida 67 percent (616). Families of large size include Poaceae with 107 species, Asteraceae with 100, and Cyperaceae with 74.

Despite the large number of species encountered in the study, few are sufficiently rare to have elicited concern for their conservation. Panax quinquefolium is state listed as threatened, a designation that limits its commercial harvest. Six species found at Caledon Natural Area are on the “Watch List” of the Virginia Department of Natural Heritage (Ludwig 1994) as “rare to uncom-
mon in Virginia:” Carex canescens, Glyceria pallida (listed as Torreyochloa pallida), Limnobium spongia, Ludwigia leptocarpa, Panax quinquefolium, and Polygonum densiflorum. Two of these, Limnobium spongia and Ludwigia leptocarpa, were also found at the Dahlgren Division of the Naval Surface Warfare Center. A seventh plant on the “Watch List,” Potamogeton perfoliatus var. bupleuroides, was found in the Potomac River near the Rt 301 Bridge, also at the Dahlgren proving grounds. Finally, an additional site for Panax quinquefolium was found at Bull Bluff.

Each entry in the checklist includes taxon name, author, habitat(s), an indication of abundance or frequency, and one or more collection numbers of voucher specimens; where pertinent, synonyms or place of origin of non-native taxa are provided within brackets. Based on subjective field observations, the following categories of relative abundance are used: “R” for rarely encountered, “U” for uncommonly encountered, “O” for occasionally encountered, and “C” for commonly encountered. Collectors are abbreviated as follows: “S” = Simmons, “W” = Ware, “H” = Hayden. Other collector’s names are written out in full; their collections are vouchered at GMUF.

ANNOTATED CHECKLIST

**Bold** indicates non-native species; C = species in Caledon Natural Area; * = record for King George County; ** = record for Northern Neck peninsula; *** = record for Virginia.

**LYCOPODIOPHYTA**

**ISOTACEAE**

*Isoetes engelmannii* A. Braun. Intermittent streams; R; S527, W8253.—C

**LYCOPODIACEAE**

*Diphasiastrum digitatum* (A. Braun.) Holub. [Lycopodium flabelliforme] Mixed woods; C; S10, W8534.—C

*Huperzia lucidula* (Michx.) Trevisan. [Lycopodium lucidulum] Mesic ravine slopes; O; S12, W7982.—C

*Lycopodiella appressa* (Chapman) Cranfill. [Lycopodium appressum] Seep; R; S1289.

*Lycopodium obscurum* L. Mixed woods; O; S11, W8537.—C

**SELAGINELLACEAE**

*Selaginella apoda* (L.) Spring. Roadside, stream bank; R; W8243.—C

**EQUISETOPHYTA**

**EQUISETACEAE**

*Equisetum arvense* L. Beach berms; R; S55, W8338.—C

*Equisetum hyemale* L. Beach berms; R; SWH1402, SH1428, SH1512.

**POLYPODIOPHYTA**

**ASPLENIACEAE**

*Asplenium platyneuron* (L.) BSP. Mesic ravine slopes, roadside; C; S568, W8244.—C

**BLECHNACEAE**

*Woodwardia areolata* (L.) T. Moore. Ravine bottoms, swamps; O; S1276, W8497.—C

*Woodwardia virginica* (L.) Smith. Freshwater marsh and pond margins; R; W8524.—C

**DENNSTAEDTIACEAE**

*Dennstaedia punctilobula* (Michx.) T. Moore. Embankments, ravine slopes; O; W8357.—C

*Pteridium aquilinum* (L.) Kuhn. var. latisulcum (Desv.) L. Underw. ex Heller. Dry ridges; R; S241, W8536.—C

**DRYOPTERIDACEAE**

*Athyrium filix-femina* (L.) Mertens subsp. asplenioides (Michx.) Farwell. [A. asplenioides] Mixed woods; C; S637, S1059, W8413.—C

*Deparia acrostichoides* (Swartz) M. Kato. [Athyrium thelypterioideae] Ravine slopes; O; S944, S1032, W8675, W8792.—C

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Diplazium pycnocarpon (Sprengel) M. Broun. [Athyrium pycnocarpon] Ravine slope; R; W8841.—C

Dryopteris carthusiana (Villars) H. P. Fuchs. [D. spinulosal Ravine slopes and bottoms; R; S636, W8500.—C

Dryopteris celsa (W. Palmer) Knowlton. Ravine bottom; R; SWH1455.

Dryopteris cristata (L.) Gray. Swamp margin; R; W7986, W8855.—C

Dryopteris intermedia (Willd.) Gray. Swamp and bases; R; S1034, W7983, W8109.—C

Onoclea sensibilis L. Ravine bottoms, low road-sides; O; W8633.—C

Polystichum acrostichoides (Michx.) Schott. Ravine slopes; C; S368, W8287.—C

Ophioglossaceae

Botrychium dissectum Sprengel. Mesic ravine slopes; C; S1004, S1228, W8673, W8725.—C

Botrychium virginianum (L.) Swartz. Mixed woods; O; S119, W8072.—C

Ophioglossum vulgatum L. Mesic ravine slopes; O; S370, S571, W8075.—C

Osmundaceae

Osmunda cinnamomea L. Beach swales, mixed woods; O; S283, W8410, W8953.—C

Osmunda regalis L. var. spectabilis (Willd.) Gray. Beach swales, upper tidal marshes; U; S133, W8356.—C

Polypodiaceae

Polypodium virginianum L. River bluff summits; R; SWH1440, W8946.—C

Pteridaceae

Adiantum pedatum L. Mesic ravine slopes; U; S1029, W8790.—C

Thelypteridaceae

Phegopteris hexagonoptera (Michx.) Fee. [The-lypteris hexagonoptera] Mixed woods; C; S1030, W8674.—C

Thelypteris noveboracensis (L.) Nieuwland. Mesic ravine slopes; C; S1060, W8356.—C

Thelypteris palastris Schott. var. pubescens (Laws.) Fern. Beach swales, brackish marshes; O; S1109, S1128, W8513.—C

Coniferophyta

Cupressaceae

Juniperus virginiana L. Beach margins, former homesites, mixed woods; C; S14, W8000.—C

Pinaceae

Pinus echinata Mill. Roadsides; R; W8910.—C

Pinus taeda L. Mixed woods; O; S325, W8897, W8917.—C

Pinus virginiana Mill. Beach berms, disturbed upland sites, low woods, river bluffs; C; S71, W8350.—C

Magnoliophyta

Magnoliopsida

Acanthaceae

Justicia americana (L.) Vahl. Beach; R; S11525.

Ruellia caroliniensis (Walt.) Steud. Lawn margins, road median; U; S635, SH1586, W8914.—C

Aceraceae

Acer negundo L. Beach berms, river bluffs; O; S60, SH1426, W8133.—C

Acer rubrum L. Mixed woods; C; S5, S258, W8001.—C

Acer saccharinum L. Beach margin; R; W8810.—C

Aizoaceae

Mollugo verticillata L. [Tropical America] Beach, waste areas; U; S633, S1138, W8381.—C

Amaranthaceae

Amaranthus cannabinus (L.) J. D. Sauer. Brackish marshes; O; S955, W8737.—C

Amaranthus hybridus L. Bradley 15010.

Anacardiaceae

Rhus aromatica Ait. Roadside; R; SWH1415**

Rhus copallina L. Beach margin, field; U; SH1605, SH1715, W8608.—C

Rhus glabra L. River bluffs, roadsides; U; S585, W8814.—C

Rhus radicans L. Mixed woodlands, roadsides, thickets; C; W8135.—C

Rhus typhina L. Bradley 8249.

Annonaceae

Asimina triloba (L.) Dunal. Mesic ravine slopes and bottoms; C; S77, W8063.—C

Apiaceae

Chaerophyllum tainturieri Hooker. Roadside; R; S1463*
Cicuta maculata L. Seep, swamp margins; U; S590, S1645, W8371, W8691.—C
Cryptotaenia canadensis (L.) DC. Mesic ravine slopes; R; S481a, W8492.—C
Daucus carota L. [Eurasia] Fields; U; S477, W8323.—C
Eryngium aquaticum L. Beach swale; R; W8771.—C
Foeniculum vulgare Mill. [S. Europe] Roadside; R; S1655.
Hydrocotyle ranunculoides L.f. Beach swales, marshes and ponds; U; S624, S923, W9627.—C
Hydrocotyle sibthorpioides Lam. [Africa, Asia] Lawn margin; R; W10222.*—C
Hydrocotyle verticillata Thunb. Slightly brackish marsh and pond margins; C; S473, S545, SH1723, W8342, W8638.—C
Lilaeopsis chinensis (L.) Kuntze. Beaches; R; S277, S534.
Osmorhiza claytonii (Michx.) Clarke. Mesic ravine slopes and bottoms; 0; S78, W8155.—C
Osmorhiza longistylis (Torrey) DC. Roadside; R; W8193.—C
Oxypolis rigidior (L.) Raf. Swamp margin; R; S1490, SH1679.
Ptilimnium capillaceum (Michx.) Raf. Freshwater pond margin; R; SH1741.*
Sanicula canadensis L. Ravine slopes, roadsides; 0; S311, S457, S592, W8394.—C
Sium suave Walt. Brackish marsh margins; 0; S1107, W8736.—C

APOCYNACEAE
Apocynum cannabinum L. Fields, roadsides; C; S647, W8349.—C
Vinca major L. [Europe] Former homesites; R; W7992.—C
Vinca minor L. [Europe] Former homesites; 0; W7993.—C

AQUIFOLIACEAE
Ilex opaca Ait. Mixed woodlands; C; S216, W7999.—C
Ilex verticillata (L.) Gray. Marsh and swamp margins; 0; S354, S435, S570, W8738.—C

ARALIACEAE
Aralia spinosa L. Beach berms, roadsides; O; S717, W8590.—C
Hedera helix L. [Europe] Former homesites; R; SH1594, W8843.—C
Panax quinquefolium L. Ravine slope; R; W8944 [photo].—C

ARISTOLOCHIACEAE
Aristolochia serpentaria L. Mesic ravine slopes; R; W8724, W8888.—C
Anarum canadense L. Mesic ravine slopes; R; S385, W8075.—C
Hexastylis virginica (L.) Small. Small. Ravine slopes; R; S391, W8901.—C

ASCLEPIADACEAE
Asclepias amplexicaulis Smith. Roadsides; R; S399, SH1607.
Asclepias incarnata L. Moist field, brackish marshes; U; S654, W8738a.—C
Asclepias syriaca L. Fields, roadsides; C; SH1520, W8278.—C
Asclepias tuberosa L. Roadside; R; S591.
Cyanchum laeve (Michx.) Pers. [Ampelamus albiflorus] Beach berm; R; S1652.
Matelea carolinensis (Jacq.) Woodson. Embankments, roadsides; C; SW1560, W8417.—C

ASTERACEAE
Achillea millefolium L. [Europe] Beach margins, fields, roadsides; O; S217, W8203.—C
Ageratina altissima (L.) King & Robinson. [Eupatorium rugosum] Fields, river bluff, roadsides; 0; S1213, S1295, S1654, W8831.—C
Ambrosia artemisiifolia L. Roadsides; O; S1053.
Ambrosia trifida L. Roadsides; R; S1263, W8730.—C
Antennaria plantaginifolia (L.) Richardson. Fields, ridges, roadsides; 0; S66, S285, SWH1403, W8076.—C
Anthemis arvensis L. Fields; 0; S252, S474.
Arctium minus Schkuhr. [Eurasia] Former homesites; R; W8643.—C
Arnica acaulis (Walt.) BSP. Field; R; S275.
Artemisia vulgaris L. [Europe] Fields, river bluffs; U; S1242, W8617.—C
Aster cordifolius L. River bluff face; R; SWH1764.*
Aster divaricatus L. Mesic ravine slopes; 0; S1313, S1663, W8793.—C
Aster dumosus L. Clearing, swamp margin; R; S1256, SH1682.*
Aster lateriflorus (L.) Britton. Roadside; R; W8881.—C
Aster pilosus Willd. Clearings, fields; C; S1231, S1315, W8826, W8860.—C
Aster pumilus L. Woodland margin; R; S1357.*
Aster simplex Willd. Low woods, roadsides; C; S1334, S1347, S1356, W8867, W8920.—C

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Aster subulatus Michx. Brackish marshes; 0; S1338, SH1717, W8731.—C
Aster tenuifolius L. Brackish marshes; U; S1300, S1366.
Aster vimineus Lam. Fields, roadsides; C; S706, S1311, S1329.**
Baccharis halimifolia L. Brackish marsh margins; 0; S1247, W8822.—C
Bidens aristosa (Michx.) Britton. Swales in fields; U; S1300, S1366.
Bidens bipinnata L. Ditches, fields; U; S1355, W8987.—C
Bidens cernua L. River bluffs; R; W8880.—C
Bidens coronata (L.) Britton. Brackish marsh margins; 0; S1188, W8742.—C
Bidens discoidea (T. & G.) Britton. Freshwater marsh margins; U; S1204, S1330.
Bidens frondosa L. Moist waste areas; 0; W8901.—C
Bidens laevis (L.) BSP. Beach swale; R; W8801.—C
Bidens polylepis Blake. Ditches, fields, upper tidal marshes; U; S1116, S1202, W8813.—C
Bidens tripartita L. [Europe] Slightly brackish pond marsh margins; R; S1290, W8781.—C
Centauraea maculosa Lam. [Europe] Beach margins; C; S1136, S1656.
Chondrilla juncea L. [Eurasia] Beach margins; U; S666, W8559.—C
Chrysanthemum leucanthemum L. [Europe, Asia] Clearings, fields; R; S987, S1118.
Cichorium intybus L. [Europea] Roadsides; U; S476.
Cirsium discolor (Willd.) Nutt. Field, former homesite, over-grown waste area; O; S1290, S1324, SH1722, W8751.—C
Cirsium vulgare (Savi) Tenore. [C. lanceolatum; Eurasia] Fields, roadsides; U; S1100, SH1698, W8546.—C
Conoclinium coelestinum (L.) DC. [Eupatorium coelestinum] Fields, pond margin; U; S669, S1126, W8552.—C
Crepis pulchra L. [Europe] Beach berm; R; SH1502.
Eclipta alba (L.) Hasskarl. Pond margins, roadside; C; S1142, W8621.—C
Elephantopus carolinianus L. Field, ravine bottom; R; S207, SH1704, W8782.—C
Heterotheca mohrii Greene. Clear-cut; R; W8931b.—C
Heterotheca pilosula W. & D. On stem of old dam; R; W8782.
Heterotheca rotundifolia L. ssp. ovatum (Bigelow) M. & F. Fields, roadsides; U; S663, S1102, W8648.—C
Hypochaeris radicata L. [Eurasia] Fields, roadsides, waste areas; 0; S284, S452, S692.
Iva frutescens L. Beach and brackish marsh margins; U; S286, W8818.—C

Erigeron annuus (L.) Pers. Roadsides; O; S281, S360, S443, W8405.—C
Erigeron canadensis L. Roadsides; O; S1052, W8827.—C
Erigeron philadelphicus L. Field, ravine bottom; R; S207, SH1452.
Erigeron strictus Willd. Roadsides; U; S442, SH1504, W8310.—C
Eupatoriadelphus fistulosus (Barratt) K. & R. [Eupatorium fistulosum] Fields, roadsides; U; S981, S1022.
Eupatorium album L. Field; U; S987, S1118.
Eupatorium capillifolium (L.) Small. Field; U; W8689.—C
Eupatorium hyssopifolium L. var. hyssopifolium. Fields, roadsides; O; S1222, W8927.—C
Eupatorium hyssopifolium L. var. lacinatum Gray. Fields, roadsides; O; S1190, S1230, W8748, W8749.—C
Eupatorium mohrii Greene. Clear-cut; R; W8931b.—C
Eupatorium perfoliatum L. Ditch, swamp margin; R; S1135, W8740.—C
Eupatorium pilosum W. & D. On stem of old dam; R; W8782.
Eupatorium rotundifolium L. ssp. ovatum (Bigelow) M. & F. Fields, roadsides; U; S663, S1102, W8648.—C
Eupatorium serotinum Michx. Fields, marsh, mesic ravine slopes, pond margins, roadside; C; S1187, S1203, S1389, SH1695, W8747.—C
Galinsoga quadriradiata Ruiz & Pavon. [G. elliptica; Central & South America] Lawn margin, roadside; O; S644, W8397.—C
Gnaphalium obtusifolium L. Roadsides, waste areas; U; S1103, S1196, W8564.—C
Gnaphalium purpureum L. Fields, waste areas; U; S215, W8245.—C
Helenium flexuosum Raf. Fields; R; S653, W8348.—C
Helenium decapetalum L. Bradley 21109.
Heterotheca aspera (Small) Shinners. Bradley 24001b, Strong 86-024.
Heterotheca mariana (L.) Shinners. Fields, stream banks, roadside; U; S1172, W8782.—C
Hieracium gronovii L. Roadsides; U; S1120, S1224, SH1722, W8751.—C
Hieracium venosum L. Lawn margins, ravine slopes, roadside; U; S189, W8153.—C
Hypochoeris radicata L. [Eurasia] Fields, roadsides, waste areas; O; S284, S452, S692.
Iva frutescens L. Beach and brackish marsh margins; U; S286, W8818.—C

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Krigia dandelion (L.) Nutt. Mesic woods; R; W8122.-C
Krigia virginica (L.) Willd. Lawn margins, roadside; U; S169, W8939.-C
Lactuca canadensis L. Roadside; C; S703, S1002, S1672, W8404, W8586.-C
Lactuca floridana (L.) Gaertn. Roadside; R; S1113.
Liatris graminifolia (Walt.) Willd. Clearing, roadside; R; SH1 683, SH1 731.
Liatris spicata (L.) Willd. Roadside; R; S1266.
Mikania scandens (L.) Willd. Brackish marsh and pond margins; C; S711, W8580.—C
Pluchea purpurascens (Swartz) DC. Brackish marsh and pond margins; C; S1005, S1148, S1350, W8640.—C
Polygnya wederodiana (L.) L. Beach margins, lawn margin, roadside; O; S1098, W8607.—C
Pyrrhopappus carolinianus (Walt.) DC. Roadside; R; S540.
Rudbeckia hirta L. Field, roadsides; U; S475, W8309.—C
Senecio anonymus Wood. [S. smallii] Fields, roadside; U; S267, W8538.—C
Senecio aureus L. Roadside; R; Ware, no voucher.—C
Sericocarpus asteroides (L.) BSP. [Aster pateratus] Lawn margins, roadside; U; S481h, S511, W8503.—C
Sericocarpus linifolius (L.) BSP. [Aster solidagineus] Roadside; R; S1324, W8752.—C
Solidago altissima L. Fields, river bluffs; C; S1324, W8752.—C
Solidago bicolor L. River bluffs, roadside; U; S1115, W8762.—C
Solidago caesia L. Ravine slopes, roadside; U; S1307, S1361, SH1731, W8851.—C
Solidago canadensis (L.) Salisbury. Fields, roadside; C; S1234, S1275, W8745, W8783.—C
Solidago gigantea Ait. Fields; U; S655, S1078.**
Solidago graminifolia (L.) Salisbury. Fields, roadside; C; S1234, S1275, W8745, W8783.—C
Solidago juncea Ait. Fields, roadside; C; S1324, W8546.—C
Solidago nemoralis Ait. Fields, roadside; U; S1292, S1323, S1389, W9795, W8866.—C
Solidago odora Ait. Dry open woodland; R; W8950.—C
Solidago rugosa Mill. Fields, low woods, roadside; O; S1200, W8645.—C
Solidago sempervirens L. Brackish marsh margin; R; S1245, SH1720.

Sonchus asper (L.) Hill. [Europe] Roadsides; O; S432, S745.
Taraxacum officinale Wiggers. [Europe, Asia] Fields, roadside; O; S69, W8939.—C
Tussilago farfara L. [Europe] Beach berm, river bluff face, roadside; U; S86, S126, W8002.—C
Verbesina alternifolia (L.) Britton. Beach margin, lawn margin, roadside; R; S1236, W8602.—C
Verbesina occidentalis (L.) Walt. Clearings, roadside; C; S666, W8358.—C
Vernonia noveboracensis (L.) Michx. Marsh margins, swamp, roadside; O; S694, S7356, SH1675, W8739.—C
Xanthium strumarium L. [Europe] Beach margins, ditch; U; S1293, S1304, W8754.—C

BALSAMINACEAE
Impatiens capensis Meerb. Ravine bottoms, seeps; O; S621, W8677.—C

BERBERIDACEAE
Podophyllum peltatum L. Ravine slopes; O; S151, W8943.—C

BETULACEAE
Alnus serrulata (Ait.) Willd. Ditches, marsh and swamp margins, ravine bottoms; C; S1, SH1674, W8963.—C
Betula nigra L. Ravine bottoms, swamps; O; S387, W8921.—C
Carpinus caroliniana Walt. Mesic ravine slopes and bottoms, swamp margins; C; S81, S362, W8040.—C

BIGNONIACEAE
Campsis radicans (L.) Seemann. Beach thickets, mixed woods, swamp margins; C; S427, W8301.—C
Catalpa speciosa Engelm. Embankments; R; S603, W8329.—C

BORAGINACEAE
Cynoglossum virginianum L. Mixed woods; O; S223, W8660.—C
Echium vulgare L. [S. Europe] Shell midden; R; SW1570.*
Hackelia virginiana (L.) Johnston. Disturbed ravine slope and bottom; R; W8839.—C
Myosotis discolor Pers. [Europe, W. Asia] Lawn; R; SH1514.
Myosotis macroperma Engelm. Former home sites, ravine bottoms, swamp margins; O; S169, S178, W8608.—C

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BRASSICACEAE

*Arabidopsis thaliana* (L.) Heynold. [Europe] Beach margins, roadsides, waste areas; U; S120, W8043. —C

*Arabis laevis* (Willd.) Poiret. Beach berms, ravine slope; R; S85, S202, W8142. —C

*Arabis lyrata* L. Roadsides; O; S84, W8118. —C

*Cakile edentula* (Bigelow) Hooker. Beach berm; R; SH 726.

*Cardamine bulbosa* (Schreber) BSP. Seeps, swamps; O; S227, W8059. —C

*Cardamine hirsuta* L. [Europe] Clearings, roadsides; O; S7, W7990. —C

*Cardamine pensylvanica* Wild. Intermittent streams, swamps; O; S84, S218, SWH1435, W8062. —C

*Dentaria heterophylla* Nutt. Mesic ravine slopes and bottoms; C; S161, W7987. —C

*Dentaria laciniata* Willd. Mesic ravine slopes; O; S18, W7997. —C

*Descurainia sophia* (L.) Prantl. [Eurasia] Field; R; SWH1396.

*Draba verna* L. [Erophila verna; Europe] Waste area; R; SWH1399.

*Lepidium campestre* (L.) R. Brown. [Europe] Field, roadside; O; S231, SWH1398.

*Lepidium virginicum* L. Beach margins, roadside, waste area; U; S235, S503, S560, W8232. —C

*Lunaria annua* L. [Eurasia] Former homesites; R; S159, SWH1446.

*Rorippa palustris* (L.) Besser. [R. islandica] Beach and pond margins; R; W8565. —C

*Teesdalia nudicaulis* (L.) R. Brown. [Europe] Roadside; R; S1433.

Lobelia *puberula* Michx. Field, roadside; R; S1162, S1316, SH1684.

Lobelia *siphilitica* L. Freshwater marsh; R; S1664. *C

*Triodon perfoliata* (L.) Nieuwland. var. *biflora* (R. & P.) Bradley. Field; R; W8116. —C

*Triodon perfoliata* (L.) Nieuwland. var. *perfoliata*. [Specularia perfoliata] Lawn margins, roadsides; R; S73, W8941. —C

CARYOPHYLLACEAE

*Lonicera japonica* Thunb. [Asia] Disturbed woodlands and woodland margins, wet areas; C; S261, W8211. —C

*Lonicera morrowii* Gray. [Japan] Shell midden; R; SW1571. **

*Lonicera sempervirens* L. Roadside; R; S238.

*Lonicera xylosteum* L. [Eurasia] Beach berm; R; S29.

*Sambucus canadensis* L. Low roadsides; U; S396, W8280. —C

Symphoricarpos *orbiculatus* Moench. Woodland margins, disturbed ravine; U; S1166, W8172, W8883. —C

*Viburnum acerifolium* L. Ravine slopes, river bluffs; O; S257, W8220. —C

*Viburnum dentatum* L. Swamp/marsh ecotones; O; S365, W8345. —C

*Viburnum nudum* L. Mesic ravine slopes and bottoms; U; S135, W8251. —C

*Viburnum prunifolium* L. Flat woods, river bluffs, thickets; O; S94, S424, W8113. —C

CARYOPHYLLACEAE

*Arenaria serpyllifolia* (Raf.) Raf. Beach margins, dry mixed woods, shell midden; U; SWH1407, W8252. —C

*Arenaria serpyllifolia* (Raf.) Raf. Beach margins, dry mixed woods, shell midden; U; SWH1407, W8252. —C

*Callitrichaceae*

*Callitrichia heterophylla* Pursh. Freshwater ponds and swamps; U; S1070, W8672. —C

*LYCHNIACEAE*

*Lobelia cardinalis* L. Swamp; O; S1021, W8665. —C

*Lobelia inflata* L. Roadsides; U; S710, W8501, W8694, W8784. —C

*Sagina decumbens* (Ell.) T. & G. Lawn margins; R; SW1565.

*Paronychia canadensis* (L.) Wood. Mixed woods; U; S1033, W8528. —C

*Saponaria officinalis* L. [Europe] Lawn and beach margins; O; S616, W8304. —C

*Scleranthus annuus* L. [Europe] Roadside, waste area; R; SW1447, W8094. —C

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Silene antirrhina L. Roadsides; R; S461, SH1532.
Silene vulgaris (Moench) Garcke. [S. cucubalus; Europe] Roadside; R; SW1564.
Stellaria media (L.) Villars. [Europe] Clearings, ravine slopes, roadsides; O; S21, W8008. — C
Stellaria pubera Michx. Mesic ravine slopes; R; S61, W8037. — C

CELASTRACEAE
Celastrus orbiculatus Thunb. [Asia] Beach berm; R; W8272. — C
Celastrus scandens L. Overgrown waste area, ravine bottom; R; SWH1457, SH1718. *
Euonymus americanus L. Mesic woods; O; S966, S1160, S1752, W8521. — C

CERATOPHYLLACEAE
Ceratophyllum demersum L. Freshwater marshes, river; C; SWH1421, SWH1771, W8305, W8375, W8574. — C

CHENOPODIACEAE
Atriplex patula L. Beach margins, brackish marshes; U; S1097, S1363, SH1690, W8934. — C
Chenopodium album L. [Europe] Beach swale; R; W8765. — C
Chenopodium ambrosioides L. [Tropical America] Beach margins, lawn margin; U; S1081, SH1600, W8667. — C
Salsola kali L. Beach margin; R; S1651.

CISTACEAE
Lechea pulchella Raf. [L. legetti] Roadside; R; S564.
Lechea racemulosa Michx. Roadsides, waste areas; O; S1381, SH1643, W8684. — C
Lechea tenuifolia Michx. Roadside; R; S1333.

CLETHRACEAE
Clethra alnifolia L. Brackish marsh margins; U; S915.

CONVOLVULACEAE
Calystegia sepium (L.) R. Brown. Beach and marsh margins; O; S612, S729, S1646, W8229. — C
Cuscuta campestris Yuncker. Brackish marsh margins; U; S974, S1085, S1648, W8229. — C
Cuscutacompacta Jussieu. Brackish marsh margins; U; S1068, W8681. — C
Cuscutagronovi R. & S. Freshwater marsh margin, swamps, old building site; O; SH1719, W8779, W8835, W8849. — C
Ipomoea coccinea L. [Tropical America] Roadsides; U; S1239.
Ipomoea hederacea Jacq. [Tropical America] Roadsides; U; S1223.
Ipomoea lacunosa L. Marsh margin, roadsides; U; S1259, S1677, W8829. — C
Ipomoea pandurata (L.) Meyer. Roadside; R; S598.
Ipomoeapurpurea (L.) Roth. [Tropical America] Lawn margin; R; S1147, S1390.

CORNACEAE
Cornus amomum Mill. Freshwater marsh margins, river bluffs; U; S431, W8616, W8380. — C
Cornusflorida L. Mesic woods; C; S109, W8067. — C

EBENACEAE
Diospyros virginiana L. Beach berms, former homesites, swamps; C; S406, S615, W8210. — C

ELAEAGNACEAE
Elaeagnus pungens Thunb. [China, Japan] Field; R; W8603. — C
Elaeagnus umbellata Thunb. [China, Japan] Woodland margins; R; S993, SH1506. *

ERICACEAE
Chimaphila maculata (L.) Pursh. Mixed woods, ridges; O; S255, W8379. — C
Epigaea repens L. Embankment; R; SH1578. *
Gaylussacia baccata (Wang.) K. Koch. Ericad thicket, flat woods, river bluffs; C; S149, S552, S991, W8082. — C
Gaylussaciafrondosa (L.) T. & G. Clearings, ericad thicket, flat woods, ridges; C; S328, S535, W8124. — C
Kalmia latifolia L. Ericad thicket, river bluffs, woodland margins; C; S239, W8140, W8212. — C
Leucothee racemosa (L.) Gray. Ericad thicket, flat woods, marsh, swamp margins; O; S237, S766, S1491, W8123. — C
Lyonia ligustrina (L.) DC. Ericad thicket, woodland margins; O; S296, S497, S938.
Lyonia mariana (L.) D. Don. Roadside; R; SW1558.
Monotropa hypopithys L. Mesic site in flatwoods; R; W8378. — C
Monotropasuniflora L. Ravine slopes and ridges; O; W8189. — C
Rhododendron periclymenoides (Michx.) Shinn. [R. nudiflorum] Ravine slopes, woodland margins; U; S148, W8085. — C
Rhododendron serrulatum (Small) Mallais. Pineland pond; R; SW1556.
Vaccinium corymbosum L. Ericad thicket, swamp
margins, woodland margins; C; S498, S551, W8005.—C
Vaccinium fuscatum Ait. [V. atrococcum]Ericad thicket, swamp/marsh ecotone; U; S53, S553, W8007.—C
Vaccinium pallidum Ait. [V. vacillans]Ericad thicket, upland woods, woodland margins; O; S123, S150, S499, W8222.—C
Vaccinium stamineum L. Ericad thicket, ravine slopes, woodland margins; O; S103, S155, W8130.—C

EUPHORBIACEAE
Acalypha gracilens Gray. Fields; U; S1317, SH1692.
Acalypha rhomboidea Raf. Roadside; R; S1141.
Croton glandulosus L. var. septentrionalis Muell.-Arg. Roadside; R; S984.
Euphorbia corollata L. Beach and freshwater marsh margin, fields; O; S698, S986, SH1673, SH1693, W8605, W8661.—C
Euphorbia cyparissias L. [Europe] Beach berm, roadside; R; S1492, SH1518, SH1519.
Euphorbia dentata Michx. Shell midden; R; SH1688.**
Euphorbia maculata L. [E. supina] Waste areas; U; S1000.

FABACEAE
Albizia julibrissin Durazzini. [Africa, Asia] Woodland margins, embankment; U; S494, W8830.—C
Amorpha fruticosa L. Beach margins; C; S377, W8214.—C
Amplicarpia bracteata (L.) Fern. Ravine bottom; R; S941.
Apios americana Medicus. Marsh, pond, and swamp margins, beach swales; O; S919, W8802.—C
Baptisia tinctoria (L.) R. Brown. Roadside; R; S513, W8291.—C
Cassia chamaecrista L. [C. fasciculata] Fields, roadsides; O; S930.
Cassia marilandica L. Roadside; R; S976, W8631.—C
Cassia nictitans L. Field, waste area; R; S931, W8664.—C

Cercis canadensis L. Former homesites, ravine slopes, roadsides; U; S59, W8010.—C
Clitoria mariana L. Dry open woodland, roadside; R; W8529.—C
Desmodium canescens (L.) DC. Clearing; R; S1660.*
Desmodium ciliare (Willd.) DC. Clearing; R; S1658.*
Desmodium glabellum (Michx.) DC. Roadsides; O; S1165, S1336, W8778.—C
Desmodium marilandicum (L.) DC. Clearing, roadside; R; SH1684, W8798.—C
Desmodium nudiflorum (L.) DC. Roadside embankments; U; W8396.—C
Desmodium nuttallii (Schindler) Schubert. Roadsides; R; S1164, S1229.**
Desmodium obtusum (Willd.) DC. [D. rigidum] Roadside; R; S1327.
Desmodium paniculatum (L.) DC. [D. dillenii, D. perplexum] Roadsides; C; S1163, S1189, S1216, S1314, S1325, S1659, W8777.—C
Desmodium viridiflorum/nuttallii complex (immature). Ditch; R; W8727.—C
Galactia regularis (L.) BSP. [G. volubilis] Ravine slope; R; W8383.—C
Gleditsia triacanthos L. Former homesites; R; SH1601, W8726.—C
Glycine max (L.) Merrill. [China, Japan] Marsh margin; R; S1666.
Lathyris hirsutus L. [S. Europe] Field margin; R; SH1596.
Lathyris latifolius L. [Europe] Roadside; R; S458.
Lespedeza bicolor Turcz. [Japan, N. China] Clearing; R; SH1688.**
Lespedeza canecata (Dumont) G. Don. [E. Asia] Fields, roadsides; U; S1225, S1211.
Lespedeza procumbens Michx. Bradley 16244.
Lespedeza repens (L.) Barton. Roadside; S1073, W8295, W8799.—C
Lespedeza stipulacea Maxim. [E. Asia] Roadside; O; S1250.
Lespedeza stuevei Nutt. Bradley 17771.
Lespedeza striata (Thunb.) H. & A. [E. Asia] Fields, waste area; O; S1131, W8657.—C
Lespedeza virginica (L.) Britton. Fields, roadside; U; S1074, W8926.—C
Medicago lupulina L. [Europe] Fields, shell midden; U; SW1573, SH1740, W8325.—C
Melilotus alba Medicus. [Eurasia] Roadside; U; S561.
Melilotus officinalis (L.) Pallas. [Eurasia] Roadside; O; S276.
Pueraria lobata (Willd.) Ohwi. [Japan] Roadsides, waste area; U; SH1602.
Robinia hispida L. [R. kelseyi] Roadside; R; S266.
Robinia pseudo-acacia L. Beach berms, former homesites, roadsides; C; S195, W8089.—C
Strophostyles helvola (L.) Ell. Beach margins, marsh; U; S1082, S1665, W8764a.—C
Strophostyles umbellata (Willd.) Britton. Brackish marsh margins, roadsides; O; S656, S560, W8743.—C
Stylophanthes biflora (L.) BSP. Roadside; R; S685.
Tephrosia virginiana (L.) Pers. Roadside; R; SW1559.
Trifolium arvense L. [Europe] Roadsides, waste area; O; S382, W8597.—C
Trifolium aureum Pollich. [T. agrarium; Eurasia] Roadsides, waste area; U; S240.
Trifolium campestre Schreber. [T. procumbens] [Europe, Asia, Africa] Waste areas; R; W8231.—C
Trifolium pratense L. [Europe] Roadsides, waste area; C; S280.
Trifolium repens L. [Eurasia] Roadsides, waste area; C; S287.
Vicia angustifolia L. [Europe] Clearings, roadsides; C; S147, SWH1448, S1481, W8088.—C
Wisteria sinensis (Sims) Sweet. [China] Lawn margin; R; S137.

FAGACEAE
Castanea dentata (Marshall) Borkh. Mixed woods; U; SW1576, SH1709, W8386 [saplings].—C
Castanea pumila (L.) Mill. Flat woods; R; SH1708.
Fagus grandifolia Ehrhart. Beach berms, mixed woods; C; S63, W8823, W8886.—C
Quercus alba L. Mixed woods; C; S160, W8874.—C
Quercus ×bushii Sargent [Q. marilandica × Q. velutina] Beach berm; R; W8269.—C
Quercus coccinea Muenchh. Upland woods; U; S1305, W8918.—C
Quercus falcata Michx. var. falcata Upland woods; C; S1243, S1366, W8547.—C
Quercus lyrata Walt. Swamp, upper tidal marsh margin; R; W9364.—C
Quercus marilandica Muenchh. Beach berms, ravine slope, roadside; U; SH1580, W8226.—C
Quercus michauxii Nutt. Low woods; U; S124, S1371, W8370.—C
Quercus muehlenbergii Engelm. Ravine slope; R; W8890.—C

Quercus palustris Muenchh. Swamps, roadside; C; S1394, W8636, W819.—C
Quercus pagoda Raf. Low mixed woods, beach berm; C; S1387, W2737.—C
Quercus phellos L. Low mixed woods, river bluffs; C; S1372, W8262, W8583.—C
Quercus prinus L. River bluffs; C; S1098, W8817.—C
Quercus rubra L. Upland woods; O; S1182, W8773.—C
Quercus stellata Wang. Beach berms; C; S1184, S1385, W8311.—C
Quercus velutina Lam. Mixed woods; O; S1183, S1391, W8889, W8992.—C

FUMARIACEAE
Corydalis flavula (Rae) DC. Former homesites, ravine bottoms; O; SWH1422, W7989.—C
Dicentra cucullaria (L.) Bernh. Ravine slope; R; S19.
Fumaria officinalis L. [Old World] Beach margin; R; SH1508.

GENTIANACEAE
Sabatia angularis (L.) Pursh. Roadsides; U; S704.

GERANIIACEAE
Erodium cicutarium (L.) Ait. [Europe] Roadside, shell midden; R; SW1572, W8042.—C
Geranium carolinianum L. Roadsides, waste areas; U; S229, W8119.—C
Geranium maculatum L. Mesic ravine slope; R; SWH1765.
Geranium molle L. [Europe, W. Asia] Shell midden; R; SW1574.

HALORAGACEAE
Myriophyllum aquaticum (Veil.) Verdc. [M. brasiliense; S. America] River; C; S610.
Myriophyllum sibiricum L. [M. exalbescens] Brackish marsh channel, river; R; SWH1759, W8313.—C
Proserpinaca palustris L. Beach swales, pond margin; O; SH1735, W8514.—C
Proserpinaca pectinata Lam. Freshwater pond; R; W8670.—C

HAMAMELIDACEAE
Hamamelis virginiana L. Beach berm; R; SWH1418, SH1757.
Liquidambar styraciflua L. Mixed woods; C; S64, W8292.—C
HYDROPHYLLACEAE

Hydrophyllum virginianum L. Ravine slope; R; S88, S201.
Nemophila aphylla (L.) Brummitt. [N. microcalyx] Ravine bottom; R; SWH1424.

HYPERICACEAE

Hypericum canadense L. Clearing; R; SWH1762.
Hypericum gentianoides (L.) BSP. River bluff face, roadsides, waste areas; C; S866, S988.
Hypericum gymnanthum Engelm. & Gray. Roadsides, waste areas; C; S91, S988.
Hypericum hypericoides (L.) Crantz. [H. stragalum] Roadsides, field; O; S318, S937, S999, W8504, W8925.
Hypericum mutilum L. Field, ravine bottom, waste area; U; S640, W8539.

HYPERICUM perforatum L. [Europe] Fields; O; W8279.
Hypericum prolificum L. Woodland margin; R; S754.
Hypericum punctatum Lam. Fields, roadsides; C; S627, SH1582, W8549.
Hypericum virginicum L. Slightly brackish marsh and pond margins, beach swales; U; S666, S1109, W8567.

JUGLANDACEAE

Carya cordiformis (Wang.) K. Koch. Beach berms, mesic ravine slopes; O; S733, S1099, S1342, W8864, W8892.
Carya glabra (Mill.) Sweet. Beach berms, mixed woods; O; S95, S1383, W8787.
Carya ovata (Wang.) Sargent. Beach berms, mixed woods; O; S549, W8788, W8895.
Carya ovata (Mill.) K. Koch. Woodland margin; R; S1378.
Carya pallida (Ashe) Engler & Graebner. Beach berm; R; S732.
Carya tomentosa (Poir.) Nutt. Beach berms, mixed woods; C; S96, S203, S731, S1157, S1341, W8786.
Juglans nigra L. Former homesites, ravine slopes; O; S1376, W8820.

LAMIACEAE

Agastache nepetoides (L.) Kuntze. Woodland margin; R; S1154.
Ajuga chamaepeyis (L.) Schreber. [Mediterranean] Shell midden; R; SWH1425.

Collinsonia canadensis L. Ravine bottoms, woodland margin; R; S1152, W8791.
Cunila origanoides (L.) Britton. River bluff summit; R; W8774.
Hedeoma pulegioides (L.) Pers. Fields, waste area; O; S1111, W8753a.
Lamium amplexicaule L. [Eurasia, N. Africa] Beach margin, clearings; U; S128, W8016.
Lamium purpureum L. [Eurasia] Beach margin, clearing; R; S100, W8015.
Leonurus cardiaca L. [Asia] Roadside; R; W8316.

Lycopus americanus Barton. Pond margin, river bluffs; R; SH1734, W8812.
Lycopus virginicus L. Ravine bottoms, swamps; C; S1124, S1280, S1669, W8749.
Mentha arvensis L. Beach margin, roadside; R; W8839.

Mentha cardiaca Baker. [Europe] Beach margin; R; S1087.


Nepeta cataria L. [Europe, Orient] Shell midden; R; SW1567, SH1588.

Perilla frutescens (L.) Britton. [India] Roadside; O; S1214, W8800.
Prunella vulgaris L. [Europe] Fields, roadsides; O; S989, W8522.

Pycnanthemum tenuifolium Schrader. Fields, roadsides; O; S446, W8317.
Salvia lyrata L. Lawn margins, roadsides; O; S729, W8081.

Satureja nepeta (L.) Scheele. [Europe] Shell midden; R; SH1590.
Satureja vulgaris (L.) Fritsch. Fields; O; S639, W8321.

Scutellaria elliptica Muhl. Ravine slopes, ridges; O; W8924.
Scutellaria integrifolia L. Fields, low woods, roadsides; O; S465, S589, W8927.
Scutellaria lateriflora L. Intermittent stream, ravine bottom; U; S1018, S1123, W8767.

Teucrium canadense L. Beach, lawn, and pond margins, roadsides; U; S721, W8315, W8841.

Trichostema dichotomum L. Woodland margin; R; S1292.

LARDIZABALACEAE

Akebia quinata (Houttuyn) Dcne. [China, Japan] Large stand spreading from cultivation at woodland margin; R; W8885.

LAURACEAE

Lindera benzoin (L.) Blum. Former homesites,
ravine slopes and bottoms, swamps; C; S13, S1037, W7084.—C
Sassafras albidum (Nutt.) Nees. Roadsides, woodland margins; O; S75, W8009.—C

LENTIBULARIACEAE
Utricularia gibba L. Upper tidal marsh; R; SH1699, SH1751.

LINACEAE
Linum medium (Planchon) Britton var. texanum (Planchon) Fern. Roadside, waste area; R; S887, W8385.—C
Linum striatum Walt. Embankment, swamp; U; SH1577, S1642, W8508.—C

LOGANIACEAE
Polypremum procumbens L. Roadside; R; S713.

LORANTHACEAE
Phoradendron serotinum (Raf.) M.C. Johnston. Freshwater marsh margin; R; SWH1400.*

LYTHRACEAE
Decodon verticillatus (L.) Ell. Marshes, ponds; C; S927, S1110, SH1507, W8579.—C
Lythrum lineare L. Brackish marsh; R; S1006.*

MAGNOLIACEAE
Liriodendron tulipifera L. Mixed woods; C; S288, W8331.—C
Magnolia tripetala (L.) L. Ravine slope; R (one seedling); W8110.—C
Magnolia virginiana L. Marsh and swamp margins; O; S251, SH1680, W8264.—C

MALVACEAE
Abutilon theophrasti Medicus. [S. Asia] Former homesite; R; S972.
Hibiscus moscheutos L. Beach swales, marshes and ponds; C; S723, S920, S1756, W8508.—C
Hibiscus syriacus L. [Asia] Former building site, lawn margin; R; S1095, W8634.—C

MELASTOMATACEAE
Rhedia virginica L. Upper tidal marsh margin, swales in fields; U; S1199, W8527.—C
Rhexia virginica L. Upper tidal marsh margin, swales in fields; U; S1199, W8527.—C

MENISPERMACEAE
Cocculus carolinus (L.) Vent. [Asia] Spreading from cultivation at former building site; R; W8833.—C
Menispermum canadense L. Beach berms, woodland margins; C; S426, W8328.—C

MORACEAE
Broussonetia papyrifera (L.) Vent. [Asia] Roadside, shell midden; R; SH1593, W8407.—C
Maclura pomifera (Raf.) Schneider. [Arkansas, Oklahoma, Texas] Former homesite; R; SH1693.

MORACEAE
Morus alba L. [E. Asia] Beach berm, woodland margins; U; S459, WH1438, S1482, W8271.—C
Morus rubra L. Low woods, roadsides; U; S714, W8649.—C

MYRICACEAE
Myrica cerifera L. Beach berms, brackish marsh margins; C; S29, WH1511.—C
Myrica heterophylla Raf. Strong 86-019.

NYMPHAEAECI
Nuphar luteum (L.) Sibthorp & Smith. Freshwater pond and marsh; R; S1019, W8686.—C

NYSSACEAE
Nyssa sylvatica Marshall. Beach berms, mesic ravine slopes, river bluffs; C; S175, S197, S699, W8138, W824.—C

OLEACEAE
Chionanthus virginicus L. Escarpment slopes, river bluff; U; S519, W8242.—C
Fraxinus americana L. Beach margins, ravine slopes and bottoms; U; S429, S719, W8690.—C
Fraxinus pennsylvanica Marsh. Beach margins, swamps; C; W8215.—C
Fraxinus profunda (Bush) Bush. [F. tomentosa] Beach margin; R; W8689.—C
Ligustrum sinense Lour. [China] Former homesites; U; S404, W8235.—C

ONAGRACEAE
Circea lutetiana L. ssp. canadensis (L.) Ascherson & Magnus. Ravine bottoms; O; S481b, S594, W8289.—C
Epilobium coloratum Biehler. Freshwater marshes; R; S1668, WH1766.
Gaura parviflora Douglas. [Praries] Shell mid-
den; R; SH1691. ***
Ludwigia alternifolia L. Roadsides, swale, upper
tidal marsh margin; U; S917, W8655, W8764b.—C
Ludwigia decurrens Walt. Swamp; R; S1254.
Ludwigia leptocarpa (Nutt.) Hara. River bluff 
face, marsh margins; U; SWH1404, SH1705, W8715, W8759.—C
Ludwigia palustris (L.) Ell. Freshwater ponds, 
swamps, upper tidal marsh; O; S1068, W8577.—C
Ludwigia peploides (HBK) Raven subsp. pe-
ploides. [Tropics] Brackish pond mar-
gin; R; W8716, W8758.—C
Oenothera biennis L. Beach and brackish marsh 
margins, fields; U; S1007, W8861.—C
Oenothera fruticosa L. Field, woodland margin; 
R; S497, SH1583.

OROBANCHACEAE
Epifagus virginiana (L.) Barton. Ravine slopes, 
ridges; O; S712, W8842.—C

OXALIDACEAE
Oxalis dillenii Jacq. Clearings, lawn margins; U; 
S167, W8120.—C
Oxalis stricta L. Roadsides; U; W8398.—C
Oxalis violacea L. Mesic ravine slopes, roadside; 
U; S221, W8076.—C

PAPAVERACEAE
Sanguinaria canadensis L. Ravine slopes; O; S25, 
W7998.—C

PASSIFLORACEAE
Passiflora lutea L. [Old World] Waste ar-
eas; U; S1309.

PENTHORACEAE
Penthorum sedoides L. Swamp; U; S1064.

PHYRACEAE
Phryma leptostachya L. Ravine slopes, road-
sides; U; S716, W8395.—C

PHYTOLACCACEAE
Phytolacca americana L. Beach herms, road-
sides, waste areas; U; S450, W8270.—C

PLANTAGINACEAE
Plantago aristata Michx. Roadsides; U; SH1497, 
W8655.—C
Plantago lanceolata L. [Europe] Fields, road-
sides; O; S408, W8858.—C

Plantago rugelii Dene. Roadside; U; S1328, 
W8403.—C
Plantago virginica L. Roadsides; R; S208, 
W8114.—C

PLATANACEAE
Platanus occidentalis L. Beach margins, ravin
bottoms, swamps; O; S97, W8825.—C

POLEMONIACEAE
Phlox paniculata L. Lawn margin; R; S949.

POLYGALACEAE
Polygala curtisii Gray. Clearing, roadsides; U; 
S1117, SH1581, SH1681.
Polygala lutea L. Strong 86-025.
Polygala mariana Mill. Roadside, waste area; R;
S1364, W8361.—C

POLYGONACEAE
Polygonum arifolium L. Freshwater ponds and 
marshes; O; S541, S1264, W8680.—C
Polygonum aviculare L. [Old World] Waste ar-
eas; U; S1309.
Polygonum cuspidatum Siebold & Zucc. [E. Asia] 
River bluffs; R; W8609.—C
Polygonum densiflorum Meissner. Beach swales, 
freshwater ponds and marshes; U; W8772, 
W8608.—C
Polygonum hydropiper L. Upper tidal marsh; 
R; S918.
Polygonum hydropiperoides Michx. Freshwater 
ponds and marshes; O; S726, W8630.—
C
Polygonum pensylvanicum L. Beach swale, 
marshes; U; S1260, W8761.—C
Polygonum persicaria L. [Europe] Brackish 
marsh margin; R; S1248.
Polygonum punctatum Ell. Beach swales, 
marshes, roadside; C; S1122, W8573, 
W8637, W8915.—C
Polygonum sagittatum L. Upper tidal marsh 
margins; U; S1199, W8775.—C
Polygonum scandonis L. Beach berm, roadside, 
woodland margins; U; S1257, SH1725, 
W8729.—C
Polygonum setaceum Ell. Swamp; R; S1641.**
Polygonum virginianum L. Former homesites, 
ravines, roadsides; O; S1014, W8490.—
C
Rumex acetosa L. [Europe] Fields, roadsides; 
U; S717, W8993.—C
Rumex conglomeratus Murray. [Europe] Beach 
berm; R; W8302.—C
**PORTULACACEAE**

Claytonia virginica L. Ravines, swamps; C; S6, W7988.—C

**PRIMULACEAE**

Anagallis arvensis L. [Europe] Field, lawn margin; R; SH1589, W8209.—C

Lysimachia ciliata L. Field; R; S945.

Lysimachia quadrifolia L. Roadside, waste area; R; S407, W8533.—C

Lysimachia terrestris (L.) BSP. Freshwater marsh; R; SH1599.*

Samolus parviflorus, Raf. Brackish marsh margins; U; S262, W8260.—C

**RANUNCULACEAE**

Aquilegia canadensis L. Beach berm; R; S98.

Cimicifuga racemosa (L.) Nutt. Ravine slopes; O; S546, SWH1 769, W8391, W8840.—C

Clematis terniflora [C. dioecia; Jalap] Beach thickets; R; S1088, W8693.—C

Clematis virginiana L. Marsh, ravine bottom; R; SWH1456, S1661.*

Consolida ambigua (L.) Ball & Heywood. [Delphinium ajacis; Europe] Roadside; R; SW1563.*

Hepatica americana (DC.) Ker. Ridge slopes; R; W8179.—C

Ranunculus abortivus L. Intermittent streams, old homesites; O; S76, W8039.—C

Ranunculus bulbosus L. [Europe] Fields, lawns; C; S173, W8092.—C

Ranunculus micranthus (Gray) T. & G. Disturbed ravine slope; R; SWH1437.**

Ranunculus recurvatus Poiret. Ravine bottoms and slopes; O; S153, W8143.—C

Ranunculus sceleratus L. Pond margin; R; SWH1454.*

Thalictrum pubescens Pursh. [T. polymum] Field, roadside; R; S697, S1550.

Thalictrum thalictroides (L.) Eames & Boivin. [Anemonella thalictroides] Ravine slopes, roadside; R; W8107.

**ROSACEAE**

Agrimonia parviflora Ait. Marsh margin; R; S1662.**

Agrimonia rostellata Wallroth. Roadsides; O; W8523, W8913.—C

Alchemilla microcarpa Boiss. & Reuter. [S. Europe] Lawn margin; R; W10223.—C

Amelanchier arborea (Michx. f.) Fern. River bluffs, roadsides; U; S54, S510, W8134.—C

Amelanchier canadensis (L.) Medicus. River bluffs; U; S58.

Aronia arbutifolia (L.) Ell. Woodland margins; U; S134, S834, S1380, W8525.—C

Crataegus viridis L. Woodland margin; R; S139, S171.

Duchesnea indica (Andrz.) Focke. [Asia] Lawn margins, disturbed ravine bottoms, roadsides; C; S72, W8074.—C

Fragaria virginiana Duchesne. Clearings, river bluff faces, roadsides; U; S1451, W8767, W8087.—C

Geum canadense Jacq. Mesic woods, roadsides; C; S985, W8318.—C

Kerria japonica DC. var. plenifolia Witte. [Japan, cult.] Former homesite; R; S129.

Malus pumila Mill. [Europe, cult.] Former homesite; R; S146.

Potentilla canadensis L. Fields, roadsides; C; S68, W8080.—C

Potentilla norvegica L. Fields, roadside; U; S478, S705.

Prunus serotina Ehrhart. Beach berms, former homesites, roadsides; O; S108, W8612.—C

Prunus persica (L.) Batsch. [Asia] Former homesite, ravine slope; R; SWH1449, W8011.—C

Prunus serotina Ehrhart. Beach berms, former homesites, woodland margins; C; S198, W8104.—C

Pyrus communis L. [Eurasia] Beach berms, former homesites, woodland margins; C; S198, W8840.—C

Rosa canina L. [Europe] Roadside; R; S454.

Rosa carolina L. Roadside; R; S418.

Rosa micrantha Smith. [Europe] Beach; R; S1522.*

Rosa multiflora Thunb. [E. Asia] Beach berms, woodland margins; O; S242, W217.—C

Rosa palustris Marshall. Marshes and ponds; O; S491, W8237.—C

Rubus argutus Link. Fields; C; S181.

Rubus bifrons Vest. [Europe] Lawn margin,
overgrown waste area; R; SW1562, SH1711.*
Rubus cuneifolius Pursh. Marsh thicket; R; SH1864.*
Rubus flagellaris Willd. Fields, river bluff, roadsides; U; S753, W8157, W8234, W8690.—C
Rubus hispidus L. Roadside; R; S332.
Rubus occidentalis L.Former homesite, roadside; R; S194, W8387.—C
Rubus pensilvanicus Poiret. Beach berms, field, marsh margins, roadsides; O; W8507.—C
Rubus phoenicolasius Maxim. [E. Asia] Former homesites, roadsides; O; S213, S601, W8393.—C
Rubus procerus P. J. Mueller. [Europe] Beach berm; R; W8268.—C
Rubus trivialis Michx. Mesic ravine slopes; R; S573.

RUBIACEAE
Cephalanthus occidentalis L. Freshwater ponds and marshes; C; S486, W8341.—C
Diodia teres Walt. Beach, waste areas; C; S657, S1112, S1139, W8620, W8635, W8663.—C
Diodia virginiana L. Beach margin; R; S727.
Galium aparine L. Disturbed ravine slopes; O; W8066.—C
Galium circinatum Michx. Mesic woods and ravine slopes; C; S292, W8184.—C
Galium obtusum Bigelow. Freshwater marshes; U; S575.
Galium pedemontanum (Bellardi) All. [Europe] Lawns; R; SH1509, SH1598.
Galium pilosum Ait. Clearing, shell midden; R; S1649, W8355, W8532.—C
Galium tinctorium L. Beach margins, freshwater ponds and marsh margins; O; W8223.—C
Galium triflorum Michx. Mesic ravine slopes, ravines, roadsides, waste area; O; S572, SH1516, W8399.—C
Houstonia caerulea L. Lawn margins, ravine slopes, roadsides; C; S56, W8038.—C
Houstonia purpurea L. Ravine slopes, river bluffs; U; S381, W8182, W8335.—C
Mitchella repens L. Mesic flat woods, ravine slopes; C; S409, S1346, W8138.—C
Sherardia arvensis L. [Europe] Lawns; R; SH1511.

RUTACEAE
Poncirus trifoliata (L.) Raf. [China] Former homesite; R; W8949.—C

SALICACEAE
Populus alba L. [Europe] River bluff face, roadside; R; S127, W8408.—C
Populus deltoides Marshall. Woodland margin; R; SH1428, SH1479.
Populus grandidentata Michx. Former homesite, river bluff; U; S358, W8233.—C
Populus nigra L. var. italica DuRoi. [Europe] Beach margin; R; SH1515.
Salix babylonica L. [China] Former homesite; R; SH1427.*
Salix nigra Marshall. Beach swales, marshes; C; S132, W8079.—C

SANTALACEAE
Comandra umbellata (L) Nutt. Woodland margin; R; S284.

SAURURACEAE
Saururus cernaus L. Beach swales, freshwater ponds and marshes, swamps; C; S482, W8288.—C

SAXIFRAGACEAE
Chrysosplenium americanum Schweinitz. Ravine bottom, seeps; R; SH1529, W8384.—C
Heuchera americana L. River bluffs; U; S260, W8332.—C
Hydrangea arborescens L. Ravine slopes, river bluff; U; S481f, W8177.—C
Itea virginica L. Freshwater pond and marshes, swamps; U; S363, W8218.—C
Saxifraga virginica L. Mesic ravine slopes, river bluff; U; S117.

SCROPHULARIACEAE
Agalinis purpurea (L.) Pennell. Fields, swamp/marsh ecotones; O; S1227, W8746.—C
Aureolaria virginica (L.) Pennell. Roadside; R; S671.
Chelone sp. probably C. glabra L. Swamp margin; R; W8848.—C
Gratiola pilosa Michx. Field; R; S650.
Gratiola virginiana L. Swamps; U; S439, SH1528.
Linaria canadensis (L.) Dumont. Beach margins, waste areas; U; S265, W8121.—C
Lindernia angallidea (Michx.) Pennell. Bradley 23998.
Lindernia dubia (L) Pennell. Freshwater ponds, swamps; O; S1255, SH1737, W8576, W8868.—C

CASTANEA VOLUME 60
**SIMAROUBAEAE**

_Ailanthus altissima_ (Mill.) Swingle. [E. Asia] Beach and woodland margins, former homesites; 0; S606, W8216.—C

**SOLANACEAE**

_Datura stramonium_ L. [unknown origin] Roadsides; U; S668.

_Physalis heterophylla_ Nees. Overgrown waste area; R; SH1521.—C

_Solanum carolinense_ L. Fields, lawn margins; U; S597, W8324.—C

_Solanum ptycanthum_ DC. [S. americanum] Beach margins; R; S152.

**TILIACEAE**

_Tilia americana_ L. [T. heterophylla] Beach berms, river bluff bases; O; S138, W8320.—C

**ULMACEAE**

_Celtis laevigata_ Willd. Beach berms; O; S101, S425, S608.

_Celtis occidentalis_ L. Beach berms, low woods, roadside, shell midden; O; SW1568, W8139, W8642.—C

**VITACEAE**

_Parthenocissus quinquefolia_ (L.) Planchon. Beach margins, ravines, roadsides, woodland margins; O; S548, W8227.—C

_Vitis aestivalis_ Michx. Beach and pond margins, roadsides, thickets; O; S423, S1083, W8225, W8406.—C

**BOEMERHIAEAE**

_Boehmeria cylindrica_ (L.) Swartz. Marsh margins, ravine slopes; O; S689, W8320.—C

_Laportea canadensis_ (L.) Weddell. Mesic ravines; O; S42, S1303, W8406.—C

_Pilea fontana_ (Lunell) Rydberg. Marsh; R; SW1763A.**

_Pilea pumila_ (L.) Gray. Mesic ravines, former homesite; U; S1302, W8320.—C

**VALERIANACEAE**

_Valerianella locusta_ (L.) Latterade. [Europe] Roadsides; R; SW1416, W8090.—C

_Valerianella radiata_ (L.) Dufr. _f. fernaldii_ (Dyal) Eggers. Field, roadside; R; S179, W8141b.—C

**VERBENACEAE**

_Lippia lanceolata_ Michx. Brackish marshes; U; S1388, S1644.

_Verbena simplex_ Lehman. Roadside, shell midden; R; SW1566, SW1569.*

_Verbena urticifolia_ L. Field, roadsides; U; S645, W8416, W8418.—C

**VIOLACEAE**

_Viola blanda_ Willd. Roadside; R; S131.**

_Viola cucullata_ Ait. Floodplains; C; S33, W8064.—C

_Viola fimbriatula_ Smith. Clearing; R; SWH1429.

_Viola primulifolia_ L. Roadsides, stream banks; O; S1483, W8111a.—C

_Viola pubescens_ Ait. _[V. pensylvanica]_ Ravine slope; R; SW1412.**

_Viola Rafinesquii_ Greene; Fields, roadsides; C; S73, W8012.—C

_Viola sagittata_ Ait. Roadside; R; S1432.

_Viola sororia_ Willd. Fields; O; W813.—C

_Viola striata_ Ait. Ravine bottom; R; SW1458.

_Viola triloba_ Schwenitz. Roadsides; U; W8105, W8154.—C

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_Ulmus americana_ L. Ravines, river bluffs, swamps; O; S82, W8611.—C

_Ulmus parviflora_ Jacq. Bradley 8239, 15019a.

_Ulmus rubra_ Muhl. River bluff, woodland margins; U; S441, SWH1417, W8610, W8883.—C
Vitis baileyana Munson. Roadside; R; S436.
Vitis labrusca L. Pond and swamp margins, roadsides; C; S397, S400, S419, S700, S738, W3846, W6882.—C
Vitis riparia Michx. Beach margin; R; W613.—C
Vitis rotundifolia Michx. Woodland margins; U; S1551.
Vitis vulpina L. Pond and clearing margins, beach berms, roadsides; C; S420, S421, S422, S728, S747, W8327, W8542.—C

LILIOPSIDA
ALISMATACEAE
Alisma subcordatum Raf. Freshwater marsh and ponds; U; S916, W8626.—C
Sagittaria sp. with sagittate leaves. Brackish pond margin; R; W8900.—C
Sagittaria falcata Pursh. Upper tidal marsh margins; R; S1168, W8769.—C
Sagittaria latifolia Willd. Bradley 23981.
Sagittaria longirostra (Micheli) J. G. Smith.

AMARYLLIDACEAE
Hypoxis hirsuta (L.) Coville. Roadsides; R; S346, W8372.—C
Leucojum aestivum [Europe] Former homesite; R; S168.
Narcissus ×mediolutesus Mill. [Mediterranean] Former homesite; R; W6952.
Narcissus poeticus L. [Europe] Former homesite; R; S154.
Narcissus pseudo-narcissus L. [Europe] Former homesites; C; W7591.—C
Narcissus tazetta × poeticus [Europe] Bradley 14151.

ARACEAE
Acorus calamus L. Tidal pond margin; R; W8669.—C
Arisaema dracontium (L.) Schott. Ravine slope; R; SWH1434.**
Arisaema triphyllum (L.) Schott. Ravine slopes and bottoms; C; S48, S212, W8065.—C
Peltandra virginica (L.) Schott & Endlicher. Upper tidal and freshwater marshes and ponds, swamps; C; S1331, W8723.—C
Symlocarpus foetidus (L.) Nutt. Seeps; R; S1552, W9004, W8492.—C

COMMELINACEAE
Commelina communis L. [Asia] Ravine bottom, roadside; R; S481c, W8595.—C
Commelina virginica L. Marsh and swamp margins; R; S1670, W8923.—C
Murdannia keisak (Hasskari) Hand.-Mazz. [Anelloa keisak; E. Asia] Stream; R; SH1678.
Tradescantia virginiana L. Former homesite; R; SWH1445.**

CYPERACEAE
Bulbostylis capillaris (L.) Clarke. Waste area; R; S1136.
Carex abscondita Mackenzie. Ravine slopes, swamp; R; W8241, W8351.—C
Carex alata Torrey. Freshwater marsh margins; R; S925, W8329.—C
Carex alboatractescens Schweinitz. Beach berm, river bluff face; C; W8334, W8723.—C
Carex amphibola Steud. Roadside; R; W8136.—C
Carex annectens (Bicknell) Bicknell. Low woods, roadsides; C; S1503, W8137, W8248, W8360.—C
Carex atlantica Bailey. [C. incomperta] Swamp; R; S1494.*
Carex blanda Dewey. Ravine slope; R; S1476, S1478, S1480.**
Carex canescens L. Freshwater marsh; R; W8150.—C
Carex caroliniana Schweinitz. Ericad thicket, swamp margin; R; S505, W8259.—C
Carex cephalotricha Wild. Roadsides; U; S1524, W8171, W8247.—C
Carex communitas Bailey. Ravine slope, river bluff summit; R; S111, SWH1443, S1473.
Carex comosa Boott. Beach swales, freshwater marsh margin; O; S750, W9868.—C
Carex complanata Torrey & Hooker. Well-drained bottomland; R; W8238.—C
Carex crinita Lam. Beach berms, ravine bottoms, swamps; C; S225, S299, W8187.—C
Carex deblis Michx. Ravine slopes, swamps; U; S253, S1475, W8132.—C
Carex digitalis Willd. Roadside; R; S1471, S1477, W8158.—C
Carex festucacea Willd. Streambanks, ericad thicket, swamp; O; S320, W8126, W8194.—C
Carex flaccosperma Dewey. Swamp; R; W8125, W8563.—C
Carex folliculata L. Swamp; R; S1495.
Carex frankii Kunth. Stream bank, roadside; R; W8307, W8319.—C
Carex grayi Carey. Beach berm; R; W8274.—C
Carex intumescentes Rudge. Pond and swamp margins; O; S233, S484, W8197, W8344.—C
Carex jamesii Schweinitz. Ravine slopes; R; SWH1439, SWH1459.**

Carex joorii Bailey. Ericad thicket; R; S1134.

Carex laevivaginata (Kukenthal) Mackenzie. Beach swale, freshwater marsh margin; R; SH1526, W8148.—C

Carex laxiculmis Schweinitz. Ravine slopes; R; SWH1439, SWH1459.**

Carex laxifiora Lam. Ravine slopes; U; W8181.—C

Carex leavenworthii Dewey. Waste area; R; SH1510.**

Carex lupulina Willd. Swamps; C; S434, S749, W8255, W8363.—C

Carex lurida Wahlenberg. Marsh margins, ravine bottoms; C; S309, S463, S583, S649, W8178, W8186, W8365.—C

Carex muhlenbergii Willd. Beach margin, roadsides; O; S333, S479, S550, W8246.—C

Carex pensylvanica Lam. Beach berm; R; SWH1442.**

Carex platyphylla Carey. Ravine slopes; R; S1474.*

Carex rosea Willd. Marsh margin, ravine slopes, swamp; C; S274, S1465, S1470, W8174.—C

Carex seorsa Howe. Marsh margins; R; S1527, W8151.—C

Carex squarrosa L. Swamp margin; R; W8238.—C

Carex stipata Willd. Marsh margin; R; S214.

Carex stricta Lam. Swamp; R; S1493.*

Carex suanii (Fern.) Mackenzie. Embankments, stream banks, ravine slopes and bottoms; O; S492, S1484, W8175.—C

Carex tribuloides Wahlenberg. Swamps, pond margin; R; S569, W8254, W8809.—C

Carex virensens Willd. Embankment; R; W8186, W8320.—C

Carex wilddenowii Schkuhr. Embankment; R; W8402.—C

Cladium mariscoides (Muhl.) Torrey. Beach swale; R; W8757, W8805.—C

Cyperus echinatus (L.) Wood. [C. ovularis] Beach swales; C; SH1686, SH1702, SH1794, SH1743, W8567.—C

Cyperus erythrorhizos MuhL. Brackish marsh margin, pond margin; R; SH1742, SH1744, W8722, W8898.—C

Cyperus esculentus L. Waste area; R; S1272.

Cyperus filicinus Vahl. Beach berm; R; SH1727.

Cyperus iria L. [Eurasia] Waste areas; U; S1137.

Cyperus lanceaustrienis Gray. Brackish marsh margin, fields, roadsides; U; S531, W8322, W8858.—C

Cyperus lupulinus (Spreng.) Marckes. [C. filicinus] Roadsides, waste areas; R; S543, W8287.—C

Cyperus oularis (Michx.) Torrey. Beach margins, fields, waste areas; O; S532, S1269, W8544, W8666.—C

Cyperus pseudovegetus Steud. Ditches, roadsides; R; S994, W8650.—C

Cyperus retrorsus Chapman. Beach; R; W8510.—C

Cyperus strictosus L. Marsh margins, swales in fields; O; S963, S1283, S1319, W8578.—C

Cyperus tenuifolius (Steud.) Dandy. Lawn margin; R; S1308.

Dulichium arundinaceum (L.) Britton. Beach swale, upper tidal marsh; R; S625, W8755.—C

Eleocharis engelmannii Steud. Swales in fields; R; S468b, SH1738b.

Eleocharis erythropoda Steud. Brackish marsh margins; U; S967, S1487, W8261.—C

Eleocharis fallax Weatherby. Brackish marshes; O; W8625, W8732.—C

Eleocharis obtusa (Willd.) Schultes. Wet areas; C; S1195, S1208, SH1505, SH1738c.

Eleocharis parvula (R. & S.) Link. Brackish marshes; R; SH1746.

Eleocharis tenuis (Willd.) Schultes. Ericad thicket, swamp margins, swales in fields; O; S321, SH1500, W8249, W8656, W8806.—C

Fimbristyli autumnalis (L.) R. & S. Pond margin; R; SH1739.

Rhynchospora capitellata (Michx.) Vahl. Ditches, roadsides; U; S935, W8519, W8651, W8652.—C

Rhynchospora corniculata (Lam.) Gray. Intermittent stream; R; S672.

Rhynchospora gracilenta Gray. Ericad thicket, waste area; U; S995, S1221, S1286.

Rhynchospora microcephala Small. Strong 86—021.

Scirpus atrovirens Willd. Ditches, pond margin; O; S331, S1438, W8359.—C

Scirpus acutus (L.) Kunth. Beach swales, roadsides, waste areas; O; S982, W8770.—C

Scirpus polyphyllus Vahl. Ravine bottoms, roadsides, swamps; U; S751, W8412, W8498, W8515.—C

Scirpus pungens Vahl. [S. americanus] Beach swales, brackish marshes; O; S533, W8517, W8641.—C

Scirpus robustus Pursh. Brackish marshes; U; S604, S1176.

Scirpus validus Vahl. Brackish marshes; U; S605, S968, W8535.—C

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Dioscoreaceae

*Dioscorea batatas* Dcne. [Asia] Roadside; R; W8392.—C

*Dioscorea villosa* L. Ravine slopes, swamp margin; O; S384, SH1584, W8844.—C

Hydrocharitaceae

*Elodea nuttallii* (Planchon) St. John. Brackish marsh, river; C; S1377, SH1749, SWH1760, W8312.—C

*Limnium spongia* (Bosc) Steud. Freshwater pond and marsh; R; SH1530, SH1701, W8265.—C

*Vallisneria americana* Michx. River; O; S1379, W8930.—C

Iridaceae

*Iris pseudacorus* L. [Europe] Beach swales, pond margins; O; S205, W8112.—C

*Iris versicolor* L. Pond margin; R; SH1498, W9005.—C

*Iris virginica* L. Ditches, pond margin, swamp; O; S410, S440, SH1488, SH1499.

*Sisyrinchium angustifolium* Mill. Clearings, pond margin, roadsides; U; SH1502, W8152.—C

*Sisyrinchium mucronatum* Michx. Fields; U; S209.

Juncaceae

*Juncus acuminatus* Michx. Wet areas; O; S480, S1194, W8366, W8628.—C

*Juncus canadensis* La Harpe. Beach swales, pond margin; U; SH1733, W8723a, W8756, SH1802, W8152.—C

*Juncus coriaceus* Mackenzie. Ericad thicket, pond margin, roadsides; O; S523, S693, W8509.—C


*Juncus effusus* L. Wet areas; C; S539, W8308.—C

*Juncus marginatus* Rostk. [J. biflorus] Wet areas in fields; R; S651, W8554.—C

*Juncus platypsyllus* (Wiegand) Fern. Fields, roadsides, waste area; O; S243, W8277, W8357.—C

*Juncus roemerianus* Scheele. Beach; R; S537.

*Juncus scirpidoides* Poiret. Beach, ericad thicket, field, river bluff face; O; S504, SH1587, W8333, W8556, W8569.—C

*Juncus tenuis* Willd. Fields, roadsides; O; S466, W8281, W8290.—C

*Luzula bulbosa* (Wood) Rydberg. Ravine slopes, roadsides; R; W8097.—C

*Luzula echinata* (Small) Hermann. Ravine slopes, roadsides; U; S34, SWH1452, W8077.—C

Lemnaceae

*Lemma minor* (Savigny) Thwaites. Brackish marsh; R; SH1747.

*Spirodela polysticta* (G. F. W. Meyer) Thompson. [S. oligorrhiza; Tropical America] Freshwater marshes and ponds; U; S757, S1393, W8129.—C

*Spirodela polysticta* (L.) Schleiden. Freshwater marshes and ponds; U; S758, S1392, SH1700, W8128.—C

*Wolfia brasiliensis* Weddell. [W. papulifera] Freshwater marshes and ponds; R; S1395, W8127.—C

*Wolfia columbiana* Karsten. Freshwater pond; R; S759.

Liliaceae

*Allium vineale* L. [Europe] Fields, former homesites, waste areas; C; S388, S502, W8275.—C

*Asparagus officinalis* L. [Europe] Beach berms, roadsides, lawn margin; U; S702, S1084, W8224.—C

*Erythronium americanum* Ker. Ravine slope; R; SWH1418.*

*Hemerocallis fulva* L. Beach berm, former homesite, roadside; U; S481g, W8276.—C

*Hosta* sp. [E. Asia] Former homesite; R; W8836, W8948.—C

*Hyacinthus orientalis* L. [Eurasia] Former homesite; R; W7994.—C

*Lilium superbum* L. Swamp; R; S1489.

*Medeola virginiana* L. Ravine slopes; C; S394, W8352.—C

*Muscari atlanticum* Boiss. & Reuter [M. racemosum; Mediterranean, W. Asia] Former homesite; R; SH1425.

*Ornithogalum umbellatum* L. [Europe] Former homesites; U; S206, W8091.—C

*Polygonatum biflorum* (Walt.) Ell. Ravine slopes; O; W8387.—C

*Scilla non-scripta* (L.) Hoffm. & Link. [Europe] Former homesite; R; SWH1444.

*Smilacina racemosa* (L.) Desf. Ravine slopes, roadsides; U; S286, W8845.—C

*Smilax glauca* Walt. Beach, ericad thicket, woodland margins; O; S246, S335, SH1301, W8678.—C

*Smilax herbacea* L. var. pulverulenta (Michx.) Gray. Ravine slopes; U; SWH1436, SH1585, W8156.—C

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Smilax pseudo-china L. Swamp margin; R; SH1677.*

Smilax rotundifolia L. Beach berms, roadsides, woodland margins; C; S164, W8229.—C

Uvularia perfoliata L. Ravine slopes; U; W8070.—C

Uvularia sessilifolia L. Ravine slopes, “White Oak Swamp”; O; W8299.—C

Yucca filamentosa L. Roadside; R; SHW1414.

ORCHIDACEAE

Aplectrum hyemale (Willd.) Torrey. Ravine slopes; U; SWH1411, W8041.—C

Cypripedium acaule Ait. Mixed woods; U; S282, W8079 [photo].—C

Goodyera pubescens (Willd.) R. Brown. Flat woods, ravine slopes; U; S748, S1753, W8911.—C

Habenaria sp., presumably H. clavellata (Michx.) Sprengel. Bank above pond; R; Ware, no voucher.—C

Liparis lilifolia (L.) Lindley. Mixed woods; R; S289.

Orchis spectabilis L. Ravine slopes and bottoms; O; S1 77, W8071.—C

Tipularia discolor (Pursh) Nutt. Flat woods, ravine slopes; O; S1020, S1754, W8491.—C

POACEAE

Agrostis hyemalis (Walt.) BSP. River bluff; R; SH1535.

Agrostis gigantea Roth. [A. stolonifera; Europe] Fields, ponds, swamps; O; S489, S619, W8296, W8615.—C

Agrostis perennans (Walt.) Tuckerman. Fields, pond margins, roadsides; C; S1197, W8540, W8624, W8807.—C

Aira caryophyllea L. [Europe] Roadsides, waste areas; U; S244, W8202.—C

Aira praecox L. [Europe] Waste area; R; W8201.—C

Ammophila breviligulata Fern. Beaches; O; S1092, W8601.—C

Andropogon glomeratus (Walt.) BSP. Roadside; R; S1345.

Andropogon scoparius Michx. Roadside; R; SH1729.

Andropogon ternarius Michx. Roadside; R; W8096.—C

Andropogon virginicus L. Fields, clearings, roadsides; C; SWH1401, SH1707, W8097.—C

Anthoxanthum odoratum L. [Europe] Clearings, roadsides; C; S172, S182, W8096.—C

Aristida curtissii (Gray) Nash. Bradley 15053, 16255.

Aristida dichotoma Michx. Woodland path; R; SH1706.

Aristida oligantha Michx. Beach margin, roadside; R; SH1736, W8857.—C

Arthraxon hispidus (Thunb.) Makino. [Japan] Lawn margin, roadsides; U; S1296, SH1721, W8776.—C

Brachyelytrum erectum (Roth) Beauvois. Ravine slopes; U; W8390.—C

Bromus japonicus Thunb. [Old World] Clearing, marsh thicket; R; S15, SH1606.

Bromus racemosus L. [Europe] Clearings, roadside; O; S359, S460, W8207.—C

Bromus tectorum L. [S. Europe] Field; R; S389.

Cenchrus tribuloides L. Beaches; O; S1089, W8571.—C

Chasmanthium laxum (L.) Yates. [Uniola laxa] Escarpment slopes, river flats; O; S992, S1133, S1343, W8526.—C

Cinna arundinacea L. Marshes, ravine bottoms, swamps; C; S1179, W8632, W8734, W8781.—C

Cynodon dactylon (L.) Pers. [Europe] Beach margins, fields, lawn margin; C; S1375, SH1592, S1657, W8543.—C

Dactylis glomerata L. [Europe] Fields, lawn margins; O; S143, W8646.—C

Danthonia spicata (L.) R. & S. Field, river bluffs; C; S433, SH1531, W8195.—C

Deschampsia flexuosa (L.) Trinimus. Clearing, river bluffs; O; S188, SWH1441, W8084, W8213, W8929.—C

Dichanthelium aciculare (Poiret) G. & C. Dry ridges; O; W8539.—C

Dichanthelium boschii (Poiret) G. & C. Lawn margins, ravine slope; O; S263, S1069, SWH1768, W8185, W8388.—C

Dichanthelium clandestinum (L.) Gould. Roadside, swamp margins; C; W8190, W8286.—C

Dichanthelium commutatum (Schultes) Gould. Marsh berm; R; S279.

Dichanthelium depauperatum (Muhl.) Gould. Roadside; R; SW1557.*

Dichanthelium dichotomum (L.) Gould. [D. tenue] Fields, stream banks, waste areas; C; S419a, S1553, W8368, W8531, W8619.—C

Dichanthelium lanuginosum (Ell.) Gould var. lanuginosum. Pond margins, river bluffs, roadside; O; W8298, W8614, W8623.—C

Dichanthelium lanuginosum (Ell.) Gould var. lindheimeri (Nash) Harvill. Beach berm; R; W8623, W8723d.—C

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Dichanthelium laxiflorum (Lam.) Gould. Waste area; R; S347.

Dichanthelium scoparium (Lam.) Gould. [D. scabriusculum] Roadside, waste areas; R; S823, W8555.—C

Dichanthelium sphaerocarpon (Ell.) Gould. [D. polyanthes] Ericad thicket, waste areas; U; S481, S520, S582, W8354, W8599, W8912.—C

Digitaria ischaemum (Schreber) Muhl. [Europe] Waste area; R; S1351.

Digitaria sanguinalis (L.) Scopoli. [Europe] Beach margins, roadsides; U; S658, W8572.—C

Distichlis spicata (L.) Greene. Brackish marshes; R; S1358.

Echinochloa crusgalli (L.) Beauvois. [Europe] Beach margins, roadside; U; S1056, W8565.—C

Echinochloa walteri (Pursh) Heller. Beach swales, brackish marshes; C; S1173, W8599.—C

Eleusine indica (L.) Gaertner. [Old World] Roadside; R; S481.—C

Elymus villosus Willd. Lawn margin, roadside; U; S481, W8285.—C

Elymus virginicus L. Beach berms, field; R; S607, W8536.—C

Eragrostis capillaris (L.) Nees. Lawn margin, roadside; U; S1055, S1246.

Eragrostis ciliaris (All.) Mosher. [Europe] L. arundinacea; Europe Clearings, fields; O; S144, W8311.—C

Eragrostis hirsuta (Michx.) Nees. Waste area; R; W8563.—C

Eragrostis pilosa (L.) Beauvois. [Europe] Roadside; U; S1063, W8593.—C

Eragrostis spectabilis (Pursh) Steud. Beach margins, roadside; U; W8545, W8561.—C

Erianthus alopecuroides (L.) Ell. Ericad thicket; R; S1291.

Erianthus contortus Ell. Ditches; O; S1344.

Festuca elatior L. [F. arundinacea; Europe] Clearings, fields; O; S144, W8311.—C

Festuca myuros L. [Europe] Roadside; U; S1344, S1533, W8922.—C

Festuca octoflora Walt. Roadside; R; W8282.—C

Glyceria obtusa (Muhl.) Trinius. Swamp; R; SH1676.*

Glyceria pallida (Torrey) Trinius. Chotank Swamp floodplain; R; W8362.—C

Glyceria septentrionalis Hitchcock. Freshwater pond margins; R; W8340.—C

Glyceria striata (Lam.) Hitchcock. Freshwater marshes, roadsides, swamps; C; S348, S353, W8189.—C

Holcus lanatus L. [Europe] Roadside; U; S343, S411, S414.

Hordemum pusillum Nutt. Ericad thicket, lawn; R; S316, SH1517.

Hystrix patula Moench. Roadside; R; S481e.

Leersia oryzoides (L.) Swartz. Freshwater ponds and marshes; C; S1349, W8922.—C

Leersia virginica Willd. Ravine bottoms, swamps; C; W8493.—C

Leptochloa fascicularis (Lam.) Gray. Waste area; R; SH1728.

Lolium perenne L. [L. multiflorum; Europe] Field; R; S390.

Miscanthus sinensis Andersson. [China] Bradley 15040, 15050.

Muhlenbergia schreberi J. F. Gmelin. Clearing, roadside; R; SWH1758, W8821.—C

Muhlenbergia sobolifera (Willd.) Trinius. Freshwater marsh margin; R; W8789.—C

Panicum amarum Ell. Beach; O; W8604.—C

Panicum anceps Michx. Beach margins, clearings, roadsides; O; S936, W8518.—C

Panicum dichotomiflorum Michx. Brackish pond margin, waste areas; U; S1352, W8720.—C

Panicum rigidum Nees. Brackish marsh berms, pond margin; R; W8721.—C

Panicum vertucosum Muhl. Ericad thicket, pond and swamp margins; C; S1130, SH1703, SH1704, W8582, W8634.—C

Panicum virgatum L. Beach swales, brackish marsh margins; O; S1069, S1010, S1364, SH1697, W8512.—C

Paspalum dilatatum Poiret. [S. America] Roadside; R; SH1712.

Paspalum floridanum Michx. Clearing; R; W8854.—C

Paspalum laeve Michx. Clearings, roadsides; U; S660, W8855.—C

Paspalum setaceum Michx. Bradley 21159.

Phleum pratense L. [Europe] Field, roadside; R; S737, W8380.—C

Phragmites australis (Cav.) Steud. Beach margins, wet areas; O; S1099, S1120, S1374, W8899.—C

Phyllostachys aurea (Riv.) Ch. China, Japan Lawn margin, roadside; R; SW1561, S1671.

Poa annua L. [Europe] Lawn margins, roadsides; U; S125, S145, W8086.—C

Poa bulbosa Michx. Roadside, stream banks; U; W8106, W8198.—C

Poa bulbosa L. [Europe] Lawn; R; SWH1405.*
Poa compressa L. [Europe] Clearing, roadsides; O; W8191.—C
Poa cuspidata Nutt. Beach berm, field; R; S50, S63, SH1423.
Poa pratensis L. Beach margin, clearing, ravine slopes; U; S160, S190, S273, W8204.—C
Poa sylvestris Gray. Ravine slopes; U; S166, S369, W8145, W8176.—C
Setaria faberii W. Herrmann. [E. Asia] Beach slough, field; R; W8566.—C
Setaria gilvulata (Lam.) Beauvois. Roadsides; U; W8377.—C
Setaria glauca (L.) Beauvois. [Europe] Roadside; R; S1067.
Setaria magna Grisebach. Beach berms; R; W8713.—C
Setaria viridis (L.) Beauvois. [Eurasia] Beach berm, former homesite; R; S665, W87298.—C
Sorghastrum nutans (L.) Nash. Ditch; R; S1185, S1186.**
Sorghum halepense (L.) Pers. [Mediterranean] Beach, field, roadside; U; S530, SH1714, W8343.—C
Spartina alterniflora Loisel. Brackish marshes; O; S1360, S1369, W8343.—C
Spartina cynosuroides (L.) Roth. Beach swales, brackish marshes; O; S1181, W8575.—C
Spartina patens (Ait.) Muhl. Beach margins, brackish marshes; C; S1091, S1096, S1187, S1188.**
Sphenopholis nitida (Biehler) Scribner. Embankment face; R; W8149.—C
Sphenopholis obtusata (Michx.) Scribner. Roadside; R; W8200.—C
Tridens flavus (L.) Hitchcock. Beach margins, fields, roadsides; O; S735, W8882.—C
Triplasis purpurea (Walt.) Chapman. Beaches; O; SH1685, SH1714.
Tripsacum dactyloides L. Beach margins; O; S811, W8303.—C
Zizania aquatica L. Upper tidal marshes; O; S1151, W8566.—C

ACKNOWLEDGMENTS

Field work at Caledon Natural Area (1983–84) was supported by the Virginia Department of Parks and Recreation and that of 1991 was funded by the Undergraduate Research Committee of the University of Richmond; their generous assistance is gratefully acknowledged. We are indebted to numerous individuals and institutions for providing access to land and granting permission to collect plants, including the Virginia Department of Parks and Recreation, the Environmental Office at the Naval Surface Warfare Center (Dahlgren Division), and the following property owners and contact persons: Mr. and Mrs. Lloyd Adams,

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Mr. and Mrs. Horace Ashton, Mr. Lewis Ashton, Mr. and Mrs. Earl Beerman, Mr. Kevin Berry, Mr. O.W. Besley, Mr. and Mrs. Harvey Childs, Mr. Leonard Dodd, Mr. and Mrs. Charles Fowler, Mr. Ray Glazebrook, Mrs. Beverly Iettzi, Dr. Ronald Kelsey, Mr. John Kerr, Ms. Dinette MacAdoo, Mr. James Nash, and Mr. and Mrs. S.E. Veazey and associates. In addition, Dr. Mitchell A. Byrd, Mr. Bill Saunders and Dr. Thomas Wray assisted in various ways with field work. Dr. Ted Bradley generously permitted use of the George Mason University herbarium. Dr. A.M. Harvill Jr. and Mr. Thomas F. Wieboldt gave valuable assistance in the determination of specimens of certain groups, particularly Carex; Dr. Miles F. Johnson assisted in the determination of Aster and Solidago. Dr. Gerald H. Johnson provided many beneficial comments on the geology and physiography of King George County. We are grateful for all the assistance we have received from many quarters.

LITERATURE CITED


VIRGINIA DEPARTMENT OF FORESTRY. [undated] Forestry in King George County. [pamphlet].


Received April 14, 1994; Accepted September 15, 1994.

Book Review

Katz, Cathie. 1995. The Nature of Florida’s Beaches from Melbourne Beach to Canaveral National Seashore. Cathie Katz, PO Box 510366, Melbourne Beach, FL 32951. 56 p. Fully illustrated. $7.00 soft cover includes domestic handling and mailing charges. No ISBN number at this time.

Cathie’s motto is “The more you look, the more you see.” Her scientifically-accurate drawings and her crisp text reflect that she really sees and records very clearly the beach biota. Her book is divided into four parts: Sea Wrack, Beach, Shore, and Dunes. Each part is introduced by a pictorial overview, and on the ensuing pages, the individual animals, plants, or parts thereof are illustrated and discussed. The beach wrack part contains Sargassum along with the skeletons and egg cases of marine life, pumice, and tropical drift seeds and fruits. There is even a page devoted to sea-bean polishing. The beach part covers shells, birds, and turtles, and the shore part is devoted mainly to birds and fish. The dunes part covers the dunes flora. Most plates contain an active stick figure, who “is Little Larry and she’s a creative spirit just like her namesake Larry McGrath…” This is the first of four volumes.—CHARLES R. GUNN, 120 WHITE SQUIRREL LANE, BREVARD, NORTH CAROLINA 28712.