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United States Department of the Interior
NATIONAL PARK SERVICE
Gateway National Recreation Area



FLORA OF GATEWAY NATIONAL RECREATION AREA



American Holly, Ilex opaca

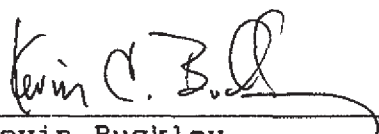
Division of Natural Resources and Compliance

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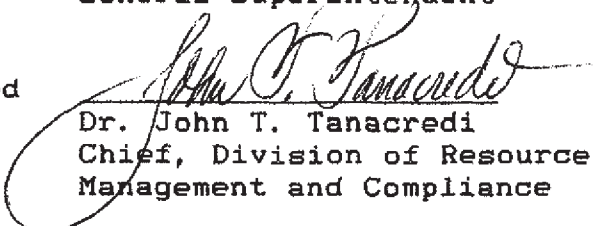
FLORA OF GATEWAY NATIONAL RECREATION AREA

Approved


Kevin Buckley
General Superintendent

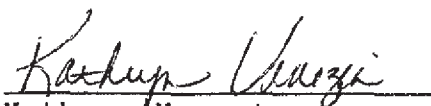
3/7/91
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Reviewed

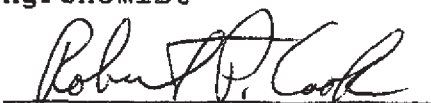

Dr. John T. Tanacredi
Chief, Division of Resource
Management and Compliance

3/7/91
Date

Written/Compiled


Kathryn Venezia*
Agronomist

3/19/91
Date


Robert P. Cook
Natural Resources Specialist

3/7/91
Date

*Present Address
New York Botanical Garden
Bronx, NY 10458

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INTRODUCTION

Gateway National Recreation Area consists of 26,645 acres of coastal uplands, freshwater ponds, marshes, bay, and mudflats. Established by the United States Congress in 1972 to preserve its significant natural and recreational features, Gateway NRA lands constitute some of the largest and most significant natural areas remaining in the metropolitan New York City area.

Geographically and administratively, Gateway NRA is divided into the Sandy Hook Unit, in Monmouth County, New Jersey; the Staten Island Unit, composed of Great Kills Park and Miller Field, Richmond County, New York; and the Jamaica Bay/Breezy Point Unit, in Kings and Queens Counties, New York. The Jamaica Bay/Breezy Point Unit is further divided into the Breezy Point District (composed of Riis Park, Fort Tilden, and the Breezy Point Tip), the Jamaica Bay District (composed of Floyd Bennett Field, Plumb Beach, and the north shore of Jamaica Bay), and the Wildlife Refuge District (Jamaica Bay Wildlife Refuge).

Floral inventory has been an ongoing activity at Gateway NRA since its establishment. The following is a compilation of all floral inventory data for the entire park to date. Data are presented on a Unit/District basis, but it should be borne in mind that the distribution of many plant species may be highly localized. Some administrative Units/Districts of Gateway NRA consist of several sections, each with somewhat different histories and thus, somewhat different floras.

FACTORS AFFECTING GATEWAY FLORA

The present flora of Gateway NRA is the product of both natural and human factors. Though there are no comprehensive floras which document the naturally-occurring flora for the entire park, there are a number of works which provide some detail of, or insight into, the original flora of the Gateway area.

Chrysler (1930) studied the vegetation of Sandy Hook, describing five habitat types and listing 154 species. Since Sandy Hook is the most geographically discrete and least altered landform of all Gateway Units, this work is an important baseline. For the Staten Island and Jamaica Bay/Breezy Point Units, we have only larger scope regional works. Hollick and Britton (1879), Jelliffe (1899), Taylor (1915), and Harper (1917) all include references to localities within the present-day boundaries of Gateway NRA. From these some sense of the original coastal plain flora can be obtained.

Based on these works, as well as historic maps and other research (eg. Baugher-Perlin and Bluefield 1980), we know that most of the Staten Island and Jamaica Bay/Breezy Point Units were originally salt marsh and sand dune habitats. In the course of the present century these have been altered through dredge spoil deposition and landfilling. On these human-created uplands, habitats such as freshwater marshes, grasslands, shrub thickets, and woodlands have developed. In addition to the native and naturalized alien species which have colonized these uplands, many species (native, alien, and horticultural types) were originally planted as part of revegetation and wildlife habitat programs.

The net result at these sites is a flora much different than the original, though a detailed comparison is beyond the scope of this list.

FLORAL SURVEYS AT GATEWAY NRA

In the years since 1974, when the National Park Service took over the operational management of Gateway NRA, many workers have surveyed it's flora. However, the magnitude of effort required to survey all Gateway sites through an entire growing season has prevented any one survey team from compiling a complete Gateway Flora. All previous surveys have been limited in either their geographic scope, amount of effort, or seasonality. Consequently, many species remain undocumented at Gateway sites. In addition, as a result of successional changes and colonization, the flora of Gateway is undoubtedly continuing to change.

The following list is a compilation of all plant species recorded at Gateway NRA from 1975 to 1990, and is based on a number of site-specific lists and specimens in Gateway herbaria (see sources below). It is the first Gateway-wide compilation showing the present state of information concerning the occurrence and distribution of species in the five different administrative areas of the Park.

Besides listing what we do know about Gateway's flora, this list also serves to identify gaps in our knowledge and hopefully, can guide future survey and collecting efforts. Many absences indicated on this list may be due to insufficient survey work. A substantial number of species are listed by virtue of a visual record. While this is a first step in documenting a species' occurrence, a voucher specimen is far more desirable. In the case of rare or difficult to identify species, herbarium specimens are essential. It is possible that some visual records are based on mis-identification. Without a specimen it is hard to know for sure. Thus, besides documenting new species and site-specific records, specimens should be collected for all those occurrences currently documented by sight records. An inability to obtain a specimen of a particular species, after adequate and proper searching, should result in its removal from this list.

Since floral inventory is an on-going process, this list will be revised periodically to reflect more recent additions and deletions. All such changes or corrections should be reported to;

Chief, Division of Resource Management and Compliance
National Park Service
Gateway National Recreation Area
Floyd Bennett Field
Brooklyn, NY 11234.

HOW TO USE THIS LIST

Flora of Gateway is a database file consisting of 14 data fields. The fields, their definitions, and the definitions of the values used within a data field are as follows.

FAMILY, GENUS, SPECIES - These are taxonomic categories and the usual definitions apply. In this list they are arranged alphabetically rather than in taxonomic order. Nomenclature and taxonomy follows that of Mitchell (1986).

Accompanying statements regarding the rarity of certain species is based on Mitchell (1986) and is not necessarily a statement of rarity at Gateway. Mitchell's definitions are;

Rare - recorded 15 times or fewer in the state (NY), or up to 20 times with known cases of extirpation.

E - Endangered in state, T - Threatened in state

1,2,3 - recommended priorities for protection, based on overall rarity and endangerment in the Nation.

COMNAME - This is the common name(s) of a species. It does not necessarily reflect the only common name for a species, and generally reflects the common name used in this region. While common names are useful at times, because they lack standardization, latin names should always be included.

ORG - Origin, ie. whether a species is native or alien to the Gateway Area. The determination of a species' origin is based on several factors, and the definitions of the two categories used here (Native or Alien) are based upon National Park Service Management Policy (NPS 1988).

Basically, if a species is considered (based on a review of relevant references) to be natively occurring in the Gateway area (eg. a native coastal plain species of Long Island, Staten Island, or Sandy Hook) it is considered Native (N).

Aliens (A) are those species which have been introduced into Gateway as a result of human activity, deliberate or inadvertant, direct or indirect. These include, but are not limited to, species introduced in ship's ballast, cultivars, escapes, naturalized species, and some landscape plantings. A species may be native to the Northeast or New York State, but alien to the Gateway region.

FLOWERTIME - The flowering time corresponds to the months when a given species is in bloom. It may vary from year to year, and from site to site within the park. The list details the months for which flowering records exist for a given species. Additional survey work is likely to indicate longer flowering seasons for some of the species listed.

The numeric values in this field correspond to the months of the year as follows; 1 = January, 2 = February, etc.

COLOR - Color indicates the estimated floral color of the plant. Variation within a species, as well as the clinal nature of colors allows for some interpretation, and many species are listed for more than one color. Occasionally a species will have an occurrence of albinism, others might interbreed with cultivars and create unusual flower colors. This list only includes the common, or usual flower color for a species. Exceptions should be noted and a voucher specimen collected.

GR = Green	YL = Yellow
BL = Blue	OR = Orange
WT = White	PR = Purple
RD = Red	PK = Pink

FORM - This is the growthform, describing the general growth habit of a species. Some species (eg. poison ivy) may occur in more than one growth form. The categories used indicate the most commonly accepted growth forms for this area, and are as follows;

AH = Annual Herb

BIH = Biennial Herb

PH = Perennial Herb

SB = Shrub

V = Vine

CT = Coniferous Tree

DT = Deciduous Tree.

HABITAT - Habitat is a description of the major plant associations, based primarily on the structure of dominant species. This information is provided to give a general idea of the type of habitat a species may occur in at Gateway, and help guide future survey efforts. A total of eight general categories are used.

DN = Dune. Typically dominated by American beachgrass, seaside goldenrod, bayberry, beach plum, and herbaceous species. The soil base is sand.

DS = Disturbed. Typically areas which have had, and/or continue to be disturbed by human activities. The plant community is often a monoculture of one or two species. Disturbed areas are generally located near roads and buildings, and usually dominated by non-native species (eg. mugwort).

WD = Woodland. This habitat is dominated by trees of varying sizes and species. The species composition may change with the age of the woodland. For example, at Floyd Bennett Field and Breezy Point the developing woodlands are composed of early successional species, a diverse mix of short-lived species such as grey birch, black cherry, sumac, and various poplars. In a mature forest, such as on Sandy Hook, there are primarily slow growing, long lived species such as American holly.

GS = Grassland. As the name implies, the dominant species of this habitat are grasses and herbs. At Gateway, the major species are little bluestem, tall reedtop, switch grass, panic grass, and fescue. Generally the height of grassland species does not exceed five feet. Monocultures of Phragmites are not considered grasslands.

SM = Salt Marsh. Plants associated with a salt marsh are subject to tidal and storm driven inundation by salt water, and have special adaptations. The dominant species at Gateway are Spartina alterniflora, S. patens, and Salicornia sp.

FM = Freshwater Marsh. Permanent or seasonally wet areas dominated by herbaceous hydrophytic species such as sedges, rushes, cattails, and Phragmites.

SH = Shrub thicket. Shrub thickets consist of dense stands of woody species occurring as a transition (both in time and space) between grasslands and woodlands. At Gateway the typical dominants are bayberry, winged sumac, poison ivy, blackberry, olives, and red cedar.

LN = Landscape. This consists of landscapes actively managed as lawns, gardens, flower beds, and foundation plantings. The dominant species vary depending on purpose of planting. This habitat is generally associated with buildings, entranceways, and sections of the park developed for high density visitation. Habitat restoration plantings within natural areas are not considered landscape plantings.

SH, SI, BP, WR, JB. Units/Districts of Gateway. As detailed in the introduction, Gateway is administratively divided into five units/districts. These five data fields detail the known occurrence of a given species in each of the five units/districts. The data fields are as follows;

SH = Sandy Hook Unit

SI = Staten Island Unit

BP = Breezy Point District

WR = Jamaica Bay Wildlife Refuge

JB = Jamaica Bay District.

The values used within these five fields are,

V = visual record,

H = Herbarium specimen in Gateway Herbarium, Floyd Bennett Field

H* = Herbarium specimen in Gateway Herbarium, Sandy Hook

H^ = Herbarium specimen in both herbariums (since the Sandy Hook herbarium is exclusively from that Unit, only species from the Sandy Hook Unit will occur in both herbaria).

While this database is presently limited to recording the occurrence of plant species on a Unit/District basis, the potential exists for expanding it to provide this information at a finer level of resolution. This can be accomplished by creating additional location fields for more specific sites within Gateway and utilizing source documents, herbarium specimens, and future work to produce more site-specific floral lists.

SOURCE DOCUMENTS

The Flora of Gateway is a compendium of published works, scientific reports, and survey lists from National Park Service files known to the compilers. It is based on the following.

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Taylor, N. 1915. Flora of the vicinity of New York. Mem. NY Botanical Garden, 5:1-683.

ACKNOWLEDGEMENTS

The production of this list is not the accomplishment of any one person. The information it contains represents the results of fifteen years of floral observation and inventory by many people throughout Gateway's many sites. Without the field work of Jim Ash, Dr. Joseph Bridges, Paul Cerniglia, Margaret DePalma, Alfred Farrugio, Mike Feller, Dr. Andrew Greller, Mary Hake, Lori Leonardi, Jean McArthur, Clive Pinnock, Don Riepe, M.J. Shaun-essy, and Dr. Richard Stalter this list would not have been possible.

Dr. Andrew Greller, Dr. Richard Stalter, and Dr. Charles Sheviak have, over the years, been extremely helpful in verifying specimens in the Gateway Herbarium. Dr. Greller has also contributed many specimens to the herbarium. At Sandy Hook, Jean McArthur has been singularly important in developing and curating that Unit's herbarium.

A number of Gateway staff helped in setting up this database and working out many technical computer problems. Cheryl Green, Teresa Paster, Dave Avrin, Rich Clark, Jennifer Campbell, Gail Diamond, Cindy Fredo, and Friends of Gateway's Katerina Galacatos all shared their computer skills, enabling us to organize the data produced by the field workers. Each of the Unit Superintendents and their staff, over the years, have cooperated to facilitate and assist in the field work.

Additional comment and information was provided by the following people, all of whom have helped in the understanding of native plants here at Gateway; Dr. Cicle Lumer, New York City Department of Parks and Recreation, Natural Resources Group, Dr. Richard Mitchell, New York State Botanist, Dr. Andrew Greller, Queens College, Dr. Henry Art, Williams College, Dr. Robert Zaremba, New York Field Office of The Nature Conservancy, Mr. Peter Zika, New York State Heritage Program, and Mr. David Snyder, New Jersey Heritage Program. They each have provided information and encouragement throughout this process. Victoria Jahn of the Brooklyn Botanic Garden provided access to their library and assistance with historic literature.

Dr. John T. Tanacredi, Chief of Gateway's Division of Resource Management and Compliance has, over the years, been directly responsible for conceiving and facilitating many of the surveys incorporated herein. Without his efforts, support, and guidance this compilation would not be possible.

FLORA OF GATEWAY NATIONAL RECREATION AREA
COMPILED BY KATHRYN VENEZIA AND ROBERT P. COOK

GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY ACERACEAE												
Acer	negundo	BOX ELDER	N	4,5	GR	DT	WD		H			
Acer	platanoides	NORWAY MAPLE	A	4,5	YL	DT	WD, LN	H*		V	V	
Acer	pseudoplatanus	SYCAMORE MAPLE	A	4,5	GR, YL	DT	WD, LD	V		V	H	H
Acer	rubrum	RED MAPLE	N	3,4,5	RD	DT	WD	H*		V	H	H
Acer	rubrum var. trilobum	RED MAPLE	A	4,5	RD	DT		V		V		
Acer	saccharinum	SILVER MAPLE	A	4,5,6	GR, RD	DT	LN, WD	V	H		H	H
** FAMILY AGAVACEAE												
Yucca	flaccida	YUCCA, ADAM'S NEEDLE	N	6	WT	PH	DS, DN, LN	V	V	V	V	V
** FAMILY AMARANTHACEAE												
Amaranthus	albus	TUMBLEWEED	A	6,7,8	GR, WT	AH	DS, DN, GS				V	V
Amaranthus	blitum	LIVID AMARANTH	A	5,6,7	GR, WT	AH	DS, DN, SM				V	
Amaranthus	crispus	AMARANTH	A	8,9	GR	PH	DN, DS			H		
Amaranthus	hybridus	PRINCE'S FEATHER	A		GR, RD	PH	DS		H			V
Amaranthus	retroflexus	PIGWEEED, REDROOT	A			PH	DS	V	H	V		H
Froelichia	gracilis	COTTONWEED	A		GR	PH	DS, GS, DN			V	H	H
** FAMILY ANACARDIACEAE												
Rhus	aromatica	FRAGRANT SUMAC	N	4,5	WT	SB	DS, DN, SH	H*	V	V	V	V
Rhus	copallinum	DWARF SUMAC, WINGED SUMAC	N	6,7	RD	SB	SH, DN, DS	H	V	V	H	H
Rhus	glabra	SMOOTH SUMAC	N	6,7	RD	SB	SH, DS, DN	H*	H	V		
Rhus	typhina	STAGHORN SUMAC	N	6,7	WT	SB	SH, DN, DS	H*		V	H	V
Toxicodendron	radicans	POISON IVY, POISON OAK	N	6,7	WT	V, SB	DS, DN, SH, WD	H	V	V	V	V
** FAMILY APIACEAE												
Daucus	carota	QUEEN ANN'S LACE, WILD CARROT	A	4,5,6,7,8,9	WT	BIH	DS, DN, GS	H*	V	V	H	H
Pastinaca	sativa	WILD PARSNIP	A	5,6,7,8,9	YL	BIH	DS, DN	H*				H
Ptilimnium	capillaceum	MOCK BISHOP'S WEED	N	6,7,8,9,10	WT	AH	FM			V	H	

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY APOCYNACEAE												
Apocynum	cannabinum	INDIAN HEMP	N	6,7,8,9,10	WH,PK	PH	DS,WD,GS	H*	H	V	H	H
Apocynum	cannabinum var. cannabinum	INDIAN HEMP	N	6,7,8,9,10		PH	DS,WD,DN				V	
Apocynum	medium	INTERMEDIATE DOGBANE	N								V	
Vinca	minor	PERIWINKLE	A	4,5,6,7	BL,PR	V	SH,WD,DS,LN	H*			H	
** FAMILY AQUIFOLIACEAE												
Ilex	glabra	INKBERRY	N	6,7,8		SB	WD	H*		V	V	V
Ilex	opaca	AMERICAN HOLLY	N	5,6,7		CT	WD,DN	H		V	H	V
Ilex	verticillata	BLACKALDER, WINTERBERRY	N	5,6,7	WT	SB	WD,DN	V		V		V
** FAMILY ARACEAE												
Peltandra	virginica	ARROW ARUM, TUCKAHOE, ARROWLEAF	N	4,5,6	WT,GR	PH	WD,FM		H			
** FAMILY ARALIACEAE												
Aralia	nudicaulis	WILD SARSAPARILLA	N	5,6,7		PH	WD	H*				V
Aralia	spinosa	HERCULE'S CLUB	N			DT	WD				V	
** FAMILY ASCLEPIADACEAE												
Asclepias	incarnata	SWAMP MILKWEED	N	6,7,8	PK,RD	PH	DS,GS,DN	V		V	H	H
Asclepias	incarnata var. pulchra	HAIRY MILKWEED	N	5,6,7,8	PK,RD	PH	DS,DN,GS					H
Asclepias	purpurascens (RARE)	PURPLE MILKWEED	N	5,6,7	PR	PH	DN,DS,GS	V			H	
Asclepias	syriaca	COMMON MILKWEED	N	6,7,8		PH	DS,DN,GS,WD	H*	V	V	H	H
Asclepias	tuberosa	BUTTERFLYWEED, ORANGE MILKWEED	N	6,7,8,9	OR	PH	DN,GS,LN,DS	H*	V	V	H	V
** FAMILY ASPLENIACEAE												
Athyrium	asplenioides	LADY FERN	N	6	GR	PH	WD,FM				V	
Cystopteris	fragilis	COMMON FRAGILE FERN	N	7	GR	PH	FM,WD				H	
Lorinseria	areolata	NETTED CHAINFERN	N		GR	PH	WD				H	

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
Onoclea	sensibilis	SENSITIVE FERN	N	4,5,6	GR	PH	FM,WD,DS	H*		V	H	V
Thelypteris	palustris	MARSH FERN	N	4,5,6,7	GR	PH	FM,WD,DS	H*			H	
Thelypteris	simulata	MASSACHUSETTS FERN	N	6	GR	PH	FM,WD,SH	V			H	
** FAMILY ASTERACEAE												
Achillea	millefolium	COMMON YARROW,YARROW	A	4,5,6,7,8,9,10	WT,PK	PH	DS,GS,LN	H*	V	V	H	H
Ambrosia	artemesifolia	RAGWEED	N	5,6,7,8,9,10	GR	AH	DS,GS,DN	H*	V	V	H	H
Ambrosia	trifida	GIANT RAGWEED	N	7,8,9,10	GR	AH	DS,GS,DN		H			H
Anaphalis	margaritacea	PEARLY EVERLASTING	N	7,8,9	WT	PH	DN,GS,DS	V	V			V
Anthemis	arvensis	FIELD CHAMOMILLE,CHAMOMILE	A	5,6,7,8,9	YL	AH	DS,GS,DN	V		V	H	H
Anthemis	cotula	DOGWEED,STINKING CHAMOMILLE	A	5,6,7,8,9,10	WT,YL	AH	DS,DN,GS	V		V	V	V
Anthemis	tinctoria	YELLOW CHAMOMILLE	A	5,6,7	YL	PH	DS,DN,GS				V	V
Arctium	lappa	GREAT BURDOCK, BURDOCK	A	8,9,10	PK,PR	AH	DS,GS,DN					H
Artemisia	annua	ANNUAL WORMWOOD	A	7,8,9,10,11	GR,WT	AH	DS,DN,GS				H	
Artemisia	campestris caudata (RARE)	TALL WORMWOOD	N	7,8,9,10,11	GR	PH	DS	H*			H	
Artemisia	stellariana	DUSTY MILLER	A	5,6,7,8,9	YL	PH	DS,GS,DN	H*	V	H	V	V
Artemisia	vulgaris	MUGWORT	A	7,8,9,10	GR	PH	DS,GS,DN	V	H	H	H	V
Aster	divaricatus	WHITE WOOD ASTER	N	7,8,9,10,11	WT	PH	SH,WD,DS	H*				
Aster	dumosus	BUSHY ASTER,RICE BUTTON ASTER	N	7,8,9,10		PH	DN,DS				V	
Aster	ericoides	HEATH ASTER	N	7,8,9,10	WT,BL	PH	DN,DS	V			H	V
Aster	lanceolatus	TALL WHITE ASTER	N	7,8,9,10	WT,PR	PH	DS,FM					H
Aster	novi-belgii	NEW YORK ASTER	N	8,9	BL,WT		DS,FM				H	
Aster	pilosus	ASTER	N	7,8,9,10	PK,PR	PH	DS,DN		V		V	H
Aster	tenuifolius	ANNUAL SALT MARSH ASTER	N	7,8,9,10	PK,PR	PH	DN,SM,DS	V			H	
Aster	vimineus (RARE)	SMALL WHITE ASTER	N	7,8,9,10	WT	PH	DN,SM,DS				V	
Baccharis	halimifolia	GROUNDSEL TREE	N	8,9,10,11	WT,GR	PH	DS,SM,GS	H*		V	H	H
Bidens	bipinnata	SPANISH NEEDLES	N	8,9,10	YL	PH	DN,SM,DS	V			H	H
Bidens	coronata	BEGGERS TICK	N	8,9,10	YL	BIH	DS,DN,FM				V	
Bidens	frondosa	BEGGERTICK,STICKTIGHT	N	6,7,8,9,10	GR	AH	DS,SM,GS					H
Bidens	laevis (RARE)	BEGGERS TICK	N	8,9,10,11	YL	PH	DS,DN,FM	V			V	

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
Centaurea	cyanus	CORN FLOWER, BACHELOR'S BUTTON	A	5,6,7,8,9,10	BL	AH	DS				V	V
Centaurea	maculosa	SPOTTED KNAPWEED	A	6,7,8,9,10	BL,PR	BIH	DS,DN,GS	V	V	V	H	H
Cichorium	intybus	CHICORY	A	7,8,9,10	BL,PR	PH	DS,DN,GS	H*	V	V	H	H
Cirsium	arvense	CANADA THISTLE	A	7,8,9,10	PK,PR	PH	DS,DN,GS	H*			H	V
Cirsium	muticum	SWAMP-THISTLE	N	7,8,9,10	PK,PR	PH	DS,FM,GS		H			
Cirsium	pumilum	PASTURE THISTLE	N	6,7,8	PR	BIH	DS,GS	H*				
Cirsium	vulgare	BULL THISTLE, COMMON THISTLE	A	6,7,8,9,10	PK,PR	PH	DS,FM,GS	V			V	H
Conyza	canadensis var. canadensis	HORSEWEED	N	8,9,10,11	YL	AH	DS	H*			V	
Coreopsis	lanceolata	LANCED LEAF COREOPSIS	A	6,7,8,9,10,11	YL	PH	DS,LN,DN	H*		V	V	V
Coreopsis	verticillata	COREOPSIS	A	6,7,8,9,10,11	YL	PH	DS,LN,DN	V		V	V	V
Crepis	tectorum	HAWK'S BEARD	A	5,6,7	YL	PH	DS,DN				V	
Erechtites	hieracifolia	FIREWEED, PILEWORT	N	8,9,10	YL,WT	PH	DS,DN,SM	V		V	H	
Erigeron	annuus	DAISY FLEABANE	N	6,7,8,9,10	WT	AH	DS,GS,SH	H*	V	V	H	H
Erigeron	philadelphicus	COMMON FLEABANE	N	6,7,8,9,10	WT,PK	BIH	DS,GS,SH				H	H
Erigeron	pulchellus	FLEABANE, ROBIN'S PLANTAIN	N	6,7,8,9,10	WT,PK	BIH	DS,GS,SH				H	V
Erigeron	strigosus	FLEABANE	N	6,7,8,9,10	WT,PK	AH	DS,GS,SH	H*				H
Eupatorium	dubium	JOE PYE WEED, PURPLE BONESET	N	7,8,9,10	PR	PH	SM,DN,DS	V			H	
Eupatorium	fistulosum	HOLLOW JOE PYE WEED	N	7,8,9	PR	PR	DS,DN,SM				V	
Eupatorium	hyssopifolium	HYSSOP-LEAVED THOROUGHWORT	N	6,7,8,9,10	PK,WT	PH	DS,GS,SH	V	V		H	H
Eupatorium	leucolepis (RARE,E-3)	WHITE BONESET	N	6,7,8,9	WT	PH	SM,DS,DN				V	
Eupatorium	maculatum	SPOTTED JOE PYE WEED	N	6,7,8,9,10	PR,PK	PH	DS,GS,SH	V	H		H	
Eupatorium	perfoliatum	BONESET, THOROUGHWORT	N	7,8,9,10	WT	PH	SM,FM,DS,DN	V			H	V
Eupatorium	rotundifolium var. rotundifolium	ROUND LEAF BONESET	N	6,7,8,9,10	WT,PK	PH	DS,GS,SH				H	V
Eupatorium	rotundifolium var. saundersii	ROUND LEAF BONESET	N		WT	PH					H	
Eupatorium	rugosum	WHITE SNAKEROOT	N	6,7,8,9,10	WT	PH	DS,WD,SH	H*	H		H	
Eupatorium	serotinum	JOE PYE WEED	A	8,9,10	WT	PH	SM,FM,DS,DN				V	
Euthamia	graminifolia	FLAT TOP GOLDENROD	N	5,6,7	YL	PH	DS,DN				H	H
Euthamia	tenuifolia	SLENDER FRAGRANT GOLDENROD	N	7,8,9,10	YL	PH	DN,DS	V	V	V	H	H
Gaillardia	aristata	GAILLARDIA, BLANKET FLOWER	A	7,8,9,10	OR,YL	AH	DS,GS				H	V
Galinsoga	ciliata	QUICKWEED	A	5,6,7,8,9,10,11	WT	PR	SM,DS,DN	V				

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
Galinsoga	parviflora	GALINSOGA, QUICKWEED	A	4,5,6,7,8,9,10,11	WT	AH	DS				H	
Gnaphalium	obtusifolium	CUDWEED	N	6,7,8,9,10	WT,YL	AH	DS,GS,SH	H*		V	H	H
Helianthus	annuus	COMMON SUNFLOWER	A	7,8,9,10	YL	AH	DS,GS,SH	H*			H	V
Helianthus	petiolaris	SUNFLOWER	A	7,8,9	YL	AH	DS,DN	V			V	
Helianthus	tuberosus	JERUSALEM ARTICHOKE	A	5,6,7	YL	PH	DS,DN				V	V
Heliopsis	helianthoides	OX-EYE	N	7,8,9	YL,WT	PH	DS,DN,LN	H*				V
Heterotheca	subaxillaris	CAMPORWEED	A	7,8,9,10	YL	AH	DS,GS	H*		V	H	H
Hieracium	aurantiacum	KING DEVIL, ORANGE HAWKWEED	A	5,6,7,8,9	YL	AH	DS,DN	V	V		V	V
Hieracium	caespitosum	FIELD HAWKWEED, KING DEVIL	A	5,6,7,8,9,10	YL	PH	DS,GS	H*		V	H	H
Hieracium	floribundum	SMOOTH HAWKWEED	A	6,7,8,9,10	YL	PH	DS,GS	H*				H
Hieracium	venosum	HAWKWEED, RATTLESNAKE WEED	N	5,6,7	YL	AH	DS,DN				V	V
Hypochaeris	radicata	CAT'S EAR DANDELION, DANDELION	A	5,6,7,8,9,10,11	YL	PH	DS,GS	H*	V	V	V	H
Iva	frutescens	MARSH ELDER	N	8,9,10,11	GR,WT	PH	DN,SM,DS	H*	V	V	V	H
Krigia	virginica	DWARF DANDELION	N	5,6,7	YL	AH	DS,DN				V	
Lactuca	canadensis	WILD LETTUCE	N	7,8,9,10,11	YL	AH	DS,DN	V	H			V
Lactuca	seriola	PRICKLY LETTUCE	A	5,6,7	YL	AH	DS,DN	H*			H	
Leucanthemum	vulgare	OX-EYE DAISY	A	5,6,7,8,9,10	WT	PH	DS,DN,GS	H*	V	V	H	H
Matricaria	matricarioides	PINEAPPLE WEED	A	5,6,7,8,9,10	YL	AH	DS,DN	H*	V	H	H	V
Matricaria	recutita	WILD CHAMOMILE	A	5,6,7	YL	AH	DS,DN				V	
Mikania	scandens	CLIMBING HEMPWEED	N	7,8,9,10	WT,PK	V	FM,DS	V				H
Pityopsis	falcata	SICKLE-LEAVED GOLDEN ASTER	N	7,8,9,10	YL	PH	DS,DN,GS				H	H
Pluchea	odorata	SALT MARCH FLEABANE	N	8,9,10	PK,PR	AH	SM,DN	H*			H	H
Rudbeckia	hirta	BLACK-EYED SUSAN	A	7,8,9,10	YL	PH	DS,LN	H*	V	V	H	H
Senecio	aureus	GROUNDSEL, GOLDEN RAGWORT	N	5,6,7	YL	PH	DS,DN				V	
Solidago	arguta	CUT-LEAF GOLDENROD	N	7,8,9,10	YL	PH	DN,DS			V		H
Solidago	canadensis	CANADA GOLDENROD	N	5,6,7	YL	PH	DS,DN					H
Solidago	elliotti (RARE)	ELLIOTT'S GOLDENROD	N	5,6,7	YL	PH	DS,DN				V	
Solidago	juncea	EARLY GOLDENROD	N	7,8,9,10	YL	PH	DN,DS	H*	V	V	H	H
Solidago	nemoralis	GREY GOLDENROD	N	7,8,9,10	YL	PH	DN,GS,DS				H	H
Solidago	rugosa	ROUGH STEMMED GOLDENROD	N	5,6,7	YL	PH	DS,DN			V	V	

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Solidago	sempervirens	SEASIDE GOLDENROD	N	7,8,9,10	YL	PH	DN,DS	H*	V	V	H	H
Solidago	uliginosa	SWAMP GOLDENROD	N	7,8,9,10	YL	PH	DN,DS					H
Sonchus	arvensis	SOW THISTLE,MILK THISTLE	A	7,8,9,10	YL	PH	DN,DS				H	H
Sonchus	oleraceus	SOW THISTLE	A	5,6,7	YL	AH	DS,DN				V	
Taraxacum	officinale	COMMON DANDELION,DANDELION	A	3,4,5,6,7,8,9,10,11	YL	PH	DN,DS,LN	H*	V	H	H	H
Tragopogon	dubius	OYSTER PLANT,GOAT'S BEARD	A	4,5,6,7,8,9,10	YL	BIH	DS,DN	V	V	V	H	V
Tragopogon	porrifolius	SALSIFY, VEGETABLE OYSTER	A	5,6,7	YL	BIH	DS,DN				V	
Tragopogon	pratensis	GOAT'S BEARD	A	5,6,7,8,9,10	YL	BIH	DS,DN	H*	V	V	V	H
Xanthium	strumarium var. canadense	BEACH COCKLEBUR,SEA BURDOCK	N	6,7,8,9,10	YL	PH	SM,DS,DN	H*	V	V	H	H
Xanthium	strumarium var. glabratum	CLOTBUR	N	8,9							V	
Xanthium	strumarium var. strumarum	BEACH COCKLEBUR,SEA BURDOCK	A	6,7,8,9,10	YL	PH	SM,DS,DN	V		V	V	H
** FAMILY BERBERIDACEAE												
Berberis	thunbergii	JAPANESE BARBERRY	A	5	YL	SB	SH,WD,DS	H*		V	V	V
Berberis	vulgaris	COMMON BARBERRY	A	5	YL	SB	SH,WD,DS	H*		V		V
** FAMILY BETULACEAE												
Alnus	glutinosa	EUROPEAN BLACK ALDER	A	4,5	WT	SB,D	WD			H		H
Betula	populifolia	GREY BIRCH,WHITE BIRCH	N	4,5	GR,YL	DT	WD,DS,LD	H*	H	H	H	V
** FAMILY BIGNONIACEAE												
Campsis	radicans	TRUMPET CREEPER	A	7,8	RD,OR	V	WD	H*				H
Catalpa	bignonioides	CATALPA TREE	A	5,6	WT,YL	DT		H*		V		
** FAMILY BORAGINACEAE												
Echium	vulgare	BLUE WEED	A	6,7,8,9,10	BL,PR	PH	DS,GS	H*	H		V	V
Myosotis	arvensis	FORGET-ME-NOT	A	4,5,6,7,8,9	BL,WT	BIH	DS,DN					H
Myosotis	laxa	SMALLER FORGET-ME-NOT	N	5,6,7,8,9	BL	PH	DS,LN,GS	H*			H	

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GENUS	SPECIES	COMMON NAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY BRASSICACEAE												
Alliaria	petiolata	GARLIC MUSTARD	A	5,6,7	WT	BIH	DS	H*				
Arabis	thaliana	MOUSE-EAR CRESS	A	4,5,6,7	WT	AH	DS,DN	V				H
Arabis	hirsuta	HAIRY ROCK CRESS	N	5,6,7	WT,YL	BIH	DS,DN				V	
Arabis	lyrata	LYRE-LEAF ROCK CRESS	N	5,6,7	WT,YL	BIH	DS,DN	H*				
Barbarea	verna	BLACK MUSTARD	A	4,5,6	YL	AH	DS,DN,GS	H*		V	H	
Barbarea	vulgaris	EARLY WINTER CRESS, CRESS	A	4,5,6,7	YL	AH	DS,DN	V			H	H
Berteroa	incana	HOARY ALYSSUM	A	4,5,6,7	WT,YL	AH	DS,DN	V			H	
Brassica	nigra	BLACK MUSTARD	A	5,6,7,8,9,10	YL	AH	DS,GS	H*				
Brassica	rapa	CHINESE HEMP, INDIAN MUSTARD	A	4,5,6,7,8,9	WT,YL	AH	DS,DN	H*			H	
Cakile	edentula	SEA ROCKET	N	6,7,8,9	PR,PK	PH	SM,DN	H*		V	H	H
Camelina	sativa	DUTCH FLAX	A	4,5,6,7	YL	AH	DS,DN					H
Capsella	bursa-pastoris	SHEPHERD'S PURSE	A	4,5,6,7,8,9	WT	AH	DS,DN	H*	V		H	H
Cardamine	bulbosa	WATER CRESS, BITTER CRESS	N	4,5,6	WT,YL	PH	WD,FM,DS	H*		V		
Draba	verna	WHITLOW GRASS	A	4,5,6,7,8,9	WT	AH	DS,DN	H*	V		H	H
Lepidium	campestre	FIELD MUSTARD, MUSTARD	A	4,5,6,7,8,9	WT,YL	AH	DS,DN				V	H
Lepidium	virginicum	POOR MAN'S PEPPER	N	4,5,6,7,8,9	WT,YL	AH	DS,DN	H*			H	H
Lunaria	annua	SATIN FLOWER, HONESTY PLANT	A	5,6,7	WT	AH	DS,LN				H	
Raphanus	raphanistrum	JOINTED CHARLOCK, WILD RADISH	A	6,7,8	WT,YL	AH	DS,GS	H*			H	
Sisymbrium	altissimum	TUMBLING MUSTARD	A	6,7,8	YL	AH	DS,DN					H
Sisymbrium	officinale	HEDGE-MUSTARD	A	6,7	YL	AH	DS,DN,GS				H	
Thlaspi	arvense	PENNY CRESS	A	4,5,6,7	WT	AH	DS				V	
** FAMILY CACTACEAE												
Opuntia	humifusa	PRICKLY PEAR CACTUS	N	5,6	YL	PH	DN,SM	H^		V	V	V
** FAMILY CAESALPINIACEAE												
Cassia	chamaecrista	PARTRIDGE PEA, LOCUST WOOD	N	7,8,9	YL	AH	DS,DN	H*	V		V	V
Cassia	nictitans	WILD SENSITIVE PLANT	N	7,8,9	YL	AH	DN,DS	V		V	V	H
Gleditsia	triacanthos	HONEY LOCUST	N			DT		H*				H

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY CAMPANULACEAE												
Triodanis	perfoliata	VENUS' LOOKING GLASS	N	5,6	PR	AH	DS,DN,GS	H*	V	V	H	V
** FAMILY CAPRIFOLIACEAE												
Lonicera	japonica	JAPANESE HONEYSUCKLE	A	5,6,7,8,9	WT,YL	V	ST,WD,DS	V	H	V	H	V
Lonicera	morrowi	FLY HONEYSUCKLE	A	5,6	WT,YL	V	SH,WD		H			
Lonicera	tatarica	TATARIAN HONEYSUCKLE	A	5,6	WT,PK	SB	SH,WD,DS				V	
Sambucus	canadensis	COMMON ELDER	N	5,6	WT	SB	SH,DS,DN	H*	H	V	H	V
Sambucus	racemosa ssp. pubins	RED ELDERBERRY	A	5,6	WT	SB	SH,DN,DS	V	V	V	V	H
Symphoricarpos	albus	SNOWBERRY	N	5,6	WT,PK	SB	SH,LN,DS				V	
Symphoricarpos	orbiculatus	CORAL BERRY, INDIAN CURRENT	A	6,7,8	WT,PK	SB	SH,LN,DS				V	
Viburnum	acerifolium	MAPLE LEAF VIBURNUM	N	5,6	WT	SB,D	SH,LN,DS	V			V	V
Viburnum	dentatum var. lucidum	ARROWWOOD	N	5,6,7	WT	SB,D	SH,FM,DS	H^	H	V	H	V
Viburnum	molle	BLACK ALDER	A	5,6	WT	SB,D	SH,LN,DS	V				
Viburnum	opulus	ARROWWOOD	A	6,7	WT	SB,D	SH,FM,DS				V	
Viburnum	prunifolium	BLACK HAW	N	4,5	WT	SB,D	SH,LN,DS	V				
Viburnum	trilobum	CRANBERRY BUSH VIBURNUM	N	6,7	WT	SB	WD,FM,DS				V	
Weigela	japonica	WIEGELA	A									H
** FAMILY CARYOPHYLLACEAE												
Arenaria	caroliniana	SANDWORT	N	5,6	PK	PH	DN			V		V
Arenaria	serpyllifolia	THYME-LEAF SANDWORT	A	5,6,7,8,9	WT,PK	AH	DS,DN					H
Cerastium	arvense	FIELD CHICKWEED	A	4,5,6,7,8,9,10	WT,PK	PH	DS					H
Cerastium	fontanum	MOUSE-EARED CHICKWEED	A	4,5,6,7,8,9,10	WT	PH	DS,GS,LN			H	H	H
Dianthus	armeria	DEPTFORD PINK	A	6,7,8	PK	BIH	GS,DS	H*	V		H	V
Honkenya	peploides	SEA BEACH SANDWORT	N	6,7	PK	PH	DN,SM	V				V
Lychnis	alba	EVENING LYCHNIS, WHITE CHAMPION	A	5,6,7,8	WT,PK	PH	DS,FM,GS	H*			H	H
Lychnis	coronaria	MULLEIN PINK, ROSE CHAMPION	A	6,7,8,9	PK	PH	LN			V	V	V
Petrorhagia	prolifer	CHILDING PINK	A	4,5,6,7,8,9	PK	AH	DS,GS,DN			V		H

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Saponaria	officinalis	BOUNCING BET, SOAPWORT	A	5,6,7,8,9	WT,PK	PH	DS	H*	V	V	H	H
Scleranthus	annuus	KNAWEL	A	6,7,8	WT	AH	DS	H*			H	H
Silene	antirrhina	CAMPION, SLEEPY CATCHFLY	N	6,7,8,9	PK	AH	DN,DS	V			V	V
Silene	dichotoma	FORKED CATCHFLY, CAMPION	A	6,7,8,9	PK,WT	AH	DS					H
Silene	noctiflora	NIGHT FLOWERING CATCHFLY	A	6,7,8,9	PK	AH	DN,DS	H*			V	V
Silene	vulgaris	BLADDER CAMPION	A	6,7,8	WT,PK	PH	DS	V			R	R
Spergularia	marina	SALT MARSH SAND SPURRY	N	6,7,8,9	PK,WT	PH	DN,SM,DS	H^	V	V	H	V
Stellaria	crassifolia	CHICKWEED	A	6,7,8,9	PK,WT	PH	DS,GS,DN	V	H	V	V	V
Stellaria	graminea	CHICKWEED, LESSER STITCHWORT	A	5,6,7,8	PK	PH	DS,DN	V			V	V
Stellaria	longipes	LONG LEAVED CHICKWEED	N	5,6,7,8	PK	PH	GS,DS,DN				V	
Stellaria	media	CHICKWEED	A	4,5,6,7,8,9,10	PK	AH	DS,GS,DN	H*		V		
** FAMILY CELASTRACEAE												
Celastrus	orbiculatus	ORIENTAL BITTERSWEET	A	5,6,7,8	WT,YL	V,SB	DS,DN,WD,SH		H	V	V	H
Celastrus	scandens	AMERICAN CLIMBING BITTERSWEET	N	5,6,7,8,9	WT,YL	V,SB	DS,WD,SH		V	V		
Euonymus	kiautschovicus	SPREADING EUONYMUS	A			SB	LN				V	
** FAMILY CHENOPODIACEAE												
Atriplex	arenaria (RARE)	SEA BLITE, ATRIPLEX	N		GR	PH	DN,SM	V			V	H
Atriplex	patula	SPEARSCALE, ATRIPLEX	N		GR	PH	DN,SM,DS	H*		V	H	H
Bassia	hirsuta	HAIRY SEABLITE	A			AH	DN,DS	H*				V
Chenopodium	album	LAMB'S QUARTERS	A	5,6,7,8,9,10	WT,GR	AH	DS,GS,	V	V	V	H	H
Chenopodium	ambrosioides	MEXICAN TEA, WORMSEED	A	6,7	GR,RD	AH	DS,GS,DN				V	H
Chenopodium	dessicatum	NARROW LEAF GOOSEFOOT	A	5,6,7	GR,WT	AH	DN,DS,SM	V				V
Chenopodium	glaucum	OAK LEAF GOOSEFOOT	A	5,6,7	GR,WT	AH	DS,DN				V	
Chenopodium	hybridum	MAPLE LEAF GOOSEFOOT	A	5,6,7	GR,WT	AH	DS,DN	V		V		V
Chenopodium	rubrum (RARE)	RED GOOSEFOOT, COAST BLITE	N	6,7,8	RD	AH	DS,SM				V	H
Cycloloma	atriplicifolium	WINGED PIGWEED	A	6,7,8,9	GR	PH	DN,SM,DS	H*	V	V	H	H
Eurotia	lanata	AMERICAN EUROTIA, WHITE SAGE	N								H	H
Kochia	scoparia	KOCHIA, SUMMER CYPRESS	A	7,8	RD	AH	LN,DS				V	

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Salicornia	europaea	COMMON GLASSWORT	N	7,8,9	GR	AH	SM	H^	V	V	V	H
Salicornia	virginica	GLASSWORT	N	7,8,9	GR,WT	PH	SM,DN,DS	H*				V
Salsola	kali	SALTWORT, RUSSIAN THISTLE	A	7,8,9	GR	AH	SM,DN	H*	V	V	H	H
Suaeda	linearis	SEA BLITE	N	7,8,9	GR	AH	SM,DN	V				H
Suaeda	maritima	LESSER SEA BLITE	N	7,8,9	GR	AH	SM,DN	H*		V	H	H
** FAMILY CISTACEAE												
Hudsonia	ericoides	GOLDEN HEATHER, HUDSONIA	N	5,6,7	YL	PH	DN,SM	H*		V		
Hudsonia	tomentosa	FALSE BEACH HEATHER	N	5,6,7,8	YL	PH	DN	H*		V	H	H
Lechea	maritima	PINWEED	N	7,8,9	RD	PH	DN,SM	H*	V	V	H	H
** FAMILY CLUSIACEAE												
Hypericum	mutilum	DWARF ST. JOHNSWORT	N	7,8,9	YL	PH	GS,DN,DS	H*	V	V	H	V
Hypericum	perforatum	COMMON ST. JOHNSWORT	A	6,7,8,9	YL	PH	GS,DN,DS	H*	V	V	H	H
Triadenum	virginicum	MARSH ST. JOHNSWORT	N	6,7,8,9	YL	PH	SM,FM,DN,DS					H
** FAMILY COMMELINACEAE												
Commelina	communis	ASIATIC DAY FLOWER	A	6,7,8,9	PR,BL	AH	DS,FM,WD	H*	H	V	V	
Tradescantia	virginiana (RARE)	SPIDERWORT	A	4,5,6,9,10	PR,BL	AH	DS,FM,WD	V	H			H
** FAMILY CONVULVULACEAE												
Calystegia	sepium	HEDGE BINDWEED, BINDWEED	N	5,6,7,8,9,10	PK,WT	V	DS,DN	H*	H	V	H	V
Convolvulus	arvensis	FIELD BINDWEED, BINDWEED	A	5,6,7,8,9,10	PK,WT	V	DS,DN	H*			H	H
Convolvulus	japonicus	JAPANESE BINDWEED	A	6,7,8,9	PK,PR	V,H	DS				V	
Cuscuta	gronovii	DODDER	N	7,8,9	WT,YL	AH	DS				H	V
Cuscuta	pentagona (RARE)	FIELD DODDER	N			AH						H
Cuscuta	polygonorum (RARE)	SMARTWEED DODDER	N	7,8,9,10	WT,YL	V	DS,DN			H		H
** FAMILY CORNACEAE												
Cornus	amomom obliqua	PALE DOGWOOD	N			SB		H				

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
Cornus	florida	FLOWERING DOGWOOD	N	5,6	WT	SB	WD, LN	H*		V	H	
Cornus	mas	DOGWOOD	N			SB					V	
Cornus	racemosa	GRAY DOGWOOD	N	4,5,6	WT	SB	WD, FM, SH				V	
Cornus	stolonifera	RED OSIER DOGWOOD	N	5,6,7	WT	SB	SH, WD, LN	H				
** FAMILY CRASSULACEAE												
Sedum	sarmentosum	STONE CROP	A	6,7,8	YL	PH	DS, LN	V			V	V
** FAMILY CUPRESSACEAE												
Juniperus	conderta	SHORE CEDAR	A	5,6	GR			H*				
Juniperus	horizontalis	CREeping CEDAR	A	5,6	GR	SB	LN, DS	H^		V	V	
Juniperus	pfitzer	PFITZER JUNIPER	A	5,6	GR	SB	LN	V	V	V	V	V
Juniperus	virginiana	EASTERN RED CEDAR	N	5,6,7	GR, YL	CT	DN, SH, WD	H	V	V	V	V
Thuja	occidentalis	WHITE CEDAR, ARBOR VITAE	N	5,6,7	GR, YL	CT	LN			V	V	
** FAMILY CYATHEACEAE												
Dennstaedtia	punctilobula	HAY-SCENTED FERN	N	6	GR	PH	WD, SH				H	
** FAMILY CYPERACEAE												
Bulbostylis	capillaris	SAND RUSH SEDGE	N	6,7	GR, BL	PH	DN, DS	V		V		
Carex	annectens	SEDGE	N			PH						H
Carex	baileyi	SEDGE	N		GR	PH	DN, SM, FM, DS	H*				
Carex	bebbii	SEDGE	N	6,7	WT, YL	PH	FM, SH				V	
Carex	flavescens	SEDGE						H*			V	
Carex	houghtonii (RARE)	SEDGE	N	5,6,7	GR	PH	DN, DS				V	
Carex	kobomugi	SEDGE	A	5,6,7	GR	PH	DS, DN	V				
Carex	muhlenbergii	SEDGE	N	5,6,7	GR	PH	DN, DS				V	
Carex	scoparia	SEDGE	N					V				H
Carex	silicea	SEDGE	N	5,6,7	GR	PH	DN, DS	V				
Carex	straminea (RARE)	SEDGE	N	7,8	GR, YL	PH	DN, SM, DS	V		V	V	

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Cyperus	bipartitus	SEDGE	N	5,6,7	GR,YL	AH	DS,DN,SM	V				H
Cyperus	diandrus	SEDGE	N	5,6,7	GR	PH	DS,DN	V		V		
Cyperus	esculentus	YELLOW NUT GRASS	N	7	YL	PH	FM,DS				H	H
Cyperus	filiculmis	SEDGE	N	5,6,7	GR,YL	PH	DN,DS	V		H	H	H
Cyperus	grayii	SEDGE	N	7	YL	PH	FM,DS				V	H
Cyperus	houghtonii	SEDGE	N	7	YL	PH	DN,DS				H	
Cyperus	iria	SEDGE	A	6,7	YL,GR	AH	DS,FM				H	
Cyperus	polystachyos (RARE)	SEDGE	N			PH		H*				
Cyperus	retrofractus (RARE T-3)	SEDGE	N	5,6,7	GR	PH	DN	V				
Cyperus	schweinitzii (RARE)	SEDGE	N			PH	GS					H
Cyperus	strigosus	STRAW COLORED SEDGE	N	5,6,7	GR,YL	PH	DN,SH,WD	V		H	H	H
Eleocharis	obtusata	BLUNT SPIKE RUSH	N	5,6,7	GR,YL	AH	DN,SH,WD	V				H
Rhynchospora	capitellata	BEAKRUSH	N		YL	PH	DN,SM				H	
Scirpus	americanus	BULRUSH, THREE SQUARE	N	5,6,7	GR,YL	PH	DN,DS,SM	V		V	V	H
Scirpus	cyperinus	WOOLGRASS, BULRUSH	N	5,6,7	GR,YL	PH	DN,DS,SM	V		V	V	V
Scirpus	torreyi	TORREY BULRUSH	N	7	YL	PH	SM,DN,DS				H	H
Scirpus	validus	SOFT STEMMED BULRUSH, GREAT BULRUSH	N	7	YL	PH	SN,DN,DS			H	H	
** FAMILY ELAEAGNACEAE												
Elaeagnus	angustifolia	RUSSIAN OLIVE	A	5,6	YL,WH	DT	DS,LN,SH	H*	V	V	H	H
Elaeagnus	commutata	SILVERBERRY	A	5,6	YL,WT	SB	DS,LN	V		V	H	H
Elaeagnus	umbellata	AUTUMN OLIVE	A	5,6	YL,WT	DT	WD	H*			H	
** FAMILY Equisetaceae												
Equisetum	arvense	FIELD HORSETAIL	N	4,5,6	YL,GR	PH	SM,DN,DS	H*	V	V	H	H
Equisetum	hyemale	SCOURING RUSH	N	5,6,7	YL,GR	PH	DN,DS,SM	V	V	V	V	V
** FAMILY ERICACEAE												
Arctostaphylos	uva-ursi	BEARBERRY	N	5,6	WT,PK	SB	DS,LN	V				V
Gaylussacia	baccata	HUCKLEBERRY	N	5,6	WT	SB	DS,DN	H*				V

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Kalmia	latifolia	MOUNTAIN LAUREL	N	6,7	PK,WT	SB	WD,SH	V		V	V	
Pieris	japonica	JAPANESE ANDROMEDA	A			SB		H*				V
Vaccinium	corybosium	HIGH BUSH BLUEBERRY	N	5,6,7	PR,WT	SB	FM,DS	H*				
** FAMILY EUPHORBIACEAE												
Chamaesyce	maculata	WARTWEED	N	4,5,6	YL	PH	DS,DN	V		V	H	H
Chamaesyce	polygonifolia	SEASIDE SPURGE	N	4,5,6,7		AH	DN,DS	H*				H
Euphorbia	cyparissias	CYPRESS SPURGE	A	4,5,6,7	YL	PH	DS,DN	H*			H	
** FAMILY FABACEAE												
Amorpha	fruticosa	INDIGO-BUSH FALSE INDIGO	A	5,6	BL,WT	SB	FM,WD	V	H			
Apios	americana	WILD BEAR, GROUND NUT	N	7,8	PR	V	WD	V				
Baptisia	tinctoria	WILD INDIGO, RATTLEWEED	N	5,6,7	YL	AH	DN,DS				H	
Coronilla	varia	CROWN VETCH	A	4,5,6,7,8,9,10	YL	AH	DS,DN			V	H	V
Cytisus	scoparius	SCOTCH BROOM	A	5,6,7	YL	SB	LN	H*			V	V
Lathyrus	japonicus	BEACH PEA	N	6,7,8,9	PK,PR	PH	DN,DS	H*		V	V	V
Lathyrus	latifolius	EVERLASTING PEA	A	6,7,8,9	PK,PR	PH	DN,DS	V				H
Lathyrus	sylvestris	EVERLASTING PEA	A	6,7,8,9	PR,PK	PH	DN,DS					V
Lespedeza	capitata	ROUND HEADED BUSH CLOVER	N	6,7,8,9	PR	AH	WD,GS,DS,DN				H	H
Lespedeza	cuneata	BUSH CLOVER	A		PR,PR		DS,DN	V				H
Lespedeza	virginica	SLENDER BUSH CLOVER	N	7,8,9	PR	PH	DN				V	
Lotus	corniculata	BIRD'S FOOT TREFOIL	A	5,6,7,8,9	YL	PH	DS,DN	H*		H	H	V
Medicago	lupulina	BLACK MEDICK	A	5,6,7,8,9	YL	AH	DS,DN			V		V
Medicago	sativa	ALFALFA	A	6,7,8	BL	PH	DS,DN				H	
Melilotus	alba	WHITE SWEET CLOVER	A	4,5,6,7,8,9,10	WT	AH	DS,DN	H*	V	V	H	H
Melilotus	officinalis	YELLOW SWEET CLOVER	A	4,5,6,7,8,9,10	YL	AH	DS,DN	H*	V	V	H	H
Robinia	pseudoacacia	BLACK LOCUST	A	5,6	WT	DT	WD,LN	H*	H			H
Strophostyles	helvula	WILD BEAN	N	6,7,8	PK,PR	PH	DN,DS	H*			H	H
Trifolium	arvense	RABBIT'S FOOT CLOVER	A	5,6,7	PK	AH	DS,DN	V	V	V	H	H
Trifolium	aureum	HOP CLOVER	A	5,6,7,8,9,10	YL	BIN	DS,DN	H*	V		V	

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Trifolium	dubium	LEAST HOP CLOVER	A	5,6,7,8	YL	AH	DS	H*			H	H
Trifolium	hybridum	HOP CLOVER, ALSIKE CLOVER	A	6,7,8,9	PK,WT	PH	DS				V	H
Trifolium	pratense	RED CLOVER	A	5,6,7,8,9,10	RD	PH	DS	H*	H		V	H
Trifolium	procumbens	SMALL HOP CLOVER	A	4,5,6,7,8,9,10	YL	AH	DS	V	V	H	H	H
Trifolium	repens	WHITE CLOVER	A	4,5,6,7,8,9,10	WT,PK	AH	DS	H*			H	H
Vicia	americana	PURPLE VETCH	N		PR	PH	WD,DS	H*				
Vicia	cracca	COW VETCH	A	6,7,8,9	BL	V,H	DS,DN				V	
Vicia	tetrasperma	SLENDER VETCH	A	4,5,6,7,8,9	PR,WT	AH	DS		H	V		
Wisteria	macrostachya	WISTERIA	A	4,5	PR,PK	V	DN,LN	H*			H	H
** FAMILY FAGACEAE												
Quercus	alba	WHITE OAK	N	4,5	GR,YL	DT	WD,LN	V				V
Quercus	bicolor	SWAMP WHITE OAK	N	4,5	GR,YL	DT	WD,LN,FM		H			
Quercus	palustris	PIN OAK	N	4,5	GR,YL	DT	WD,FM,LN		H		H	V
Quercus	phellos	WILLOW OAK	N	4,5	GR,YL	DT	WD,FM,LN		V		H	V
Quercus	rubra	NORTHERN RED OAK	N	4,5	GR,YL	DT	WD,LN,FM	H				V
Quercus	velutina	BLACK OAK	N	4,5	GR,WT	DT	WD,LN,DN		H			
** FAMILY GENTIANACEAE												
Sabatia	stellaris	MARSH PINK	N	7,8	PK,YL	AH	DN,DS,FM				V	
** FAMILY GERANIACEAE												
Erodium	cicutarium	STORKSBILL	A	4,5,6,7,8	PR,PK	AH	DS,DN	H*			H	
Geranium	carolinianum	CAROLINA CRANESBILL	N	4,5,6,7,8	PK,PR	AH	DS,DN	H*		V	H	H
Geranium	robertianum	HERB-ROBERT, CRANESBILL	N	4,5,6,7,8,9	PK,PR	AH	DS,DN	H^				H
** FAMILY HAMAMELIDACEAE												
Liquidambar	styraciflua	SWEET GUM	N	5	WT,YL	DT	WD,LN	H*	H			V

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** FAMILY IRIDACEAE												
Iris	germanica	FLEUR-DE-LYS,BLUE FLAG	A	5,6,7	BL,YL	PH	FM,DS,LN			V		
Iris	versicolor	WILD BLUE IRIS	N	5,6,7	BL	PH	WD,FM,LN	V				H
Sisyrinchium	angustifolium	BLUE-EYED GRASS	N	5,6,7	PR,YL	PH	DS,GL,DN	V		V	H	H
Sisyrinchium	atlanticum	BLUE-EYED GRASS	N	5,6,7,8	BL,PR	PH	DS,SM,DN	V				H
** FAMILY JUGLANDACEAE												
Juglans	nigra	BLACK WALNUT	N	4,5	WT	DT	WD,LN			H		
** FAMILY JUNCACEAE												
Juncus	acuminatus	SHARP FRUITED RUSH	N	4,5,6	GR,YL	PH	FM,WD,DS,DN				H	V
Juncus	bufonius	TOAD RUSH	N		YL	AH	SM,DS,DN				V	H
Juncus	canadensis	CANADIAN RUSH,MARSH RUSH	N	4,5,6	GR,YL	PH	FM,WD,DS,DN	H	V	V	H	V
Juncus	gerardii	BLACK ROOT RUSH	N				SM					H
Juncus	scirpoides	SCIRPUS LIKE RUSH	N	4,5,6	GR,YL	PH	DN,DS,WD,FM					H
Juncus	tenuis	PATH RUSH	N	4,5,6	GR,YL	PH	DN,DS	V	V	V	V	H
Juncus	torreyi	RUSH	N									H
** FAMILY LAMIACEAE												
Blephilia	hirsuta	HAIRY WOOD MINT	N	5,6,7,8	PR	PH	WD					V
Glechoma	hederaceae	GROUND IVY,GILL OVER GROUND	A	4,5,6	BL,PR	PH	WD,DS	V	H		H	V
Lamium	amplexicaule	HENBIT	A	3,4,5,6,7,8,9,10	PR,WT	AH	DS,DN	H*			H	V
Leonurus	cardiaca	MOTHERWORT	A	6,7,8	PK,WT	PH	DS	H*				
Lycopus	americanus	CUT-LEAVED WATER-MOREHOUND	N	4,5,6,7,8,9	WT	PH	DS,DN			V	H	H
Lycopus	virginicus	BUGLE WEED,WATER-MOREHOUND	N	6,7,8	WT	PH	WD,DS	H*				
Mentha	piperita	PEPPERMINT	A	6,7,8,9	PR,PK	PH	DS				V	V
Mentha	spicata	SPEARMINT	A	6,7,8	PR,PK	PH	DS,FM,GS				H	
Nepeta	cataria	CATNIP	A	6,7,8,9	WT,BL	PH	DS,LN	H				
Prunella	vulgaris	HEAL ALL,SELF HEAL	A	5,6,7,8	PR,WT	PH	DS,DN				H	H
Scutellaria	galericulata	COMMON SKULLCAP	N	6,7,8,9	BL,WT	PH	DN,DS,FM	V			H	

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Scutellaria	ovata	HEART LEAF SCULLCAP	N	5,6,7	PK,BL		GS,WD	H*				
Stachys	tenuifolia	SMOOTH HEDGE-NETTLE	N	7,8	PR,PK	PH	WD,FM				H	
Teucrium	canadense var. boreale	GERMANDER, WOOD-SAGE	N	6,7,8	PK,WT	PH	DN,SM,DS	V				H
Thymus	pulegioides	WILD THYME	A	6,7,8,9	PR	PH	DS,GS,WD					V
Trichostema	dichotomum	BLUE CURLS, BASTARD PENNYROYAL	N	5,6,7	BL	AH	DS,WD,GS					V
Trichostema	setaceum (RARE T-3)	TINY BLUE CURLS	N		BL	AH						V
** FAMILY LAURACEAE												
Sassafras	albidum	SASSAFRAS	N	4,5,6	GR,YL	DT	DN,DS,SM,FM		H		H	
** FAMILY LEMNACEAE												
Lemna	minor	DUCKWEED	N		GR	PH	FM	V	V		V	
** FAMILY LILIACEAE												
Allium	canadense	WILD ONION, WILD GARLIC	N			PH						H
Allium	stellatum	ONION	N	7,8,9	PR,GR	PH	DS,SH	H*				
Allium	vineale	FIELD GARLIC, WILD ONION	A	4,5,6,7,8,9,10,11	PR,PK	PH	DS	H*	H	V	H	H
Asparagus	officinalis	WILD ASPARAGUS	A	4,5,6	GR,YL	PH	DS,DS	H*	H	V	H	V
Convallaria	majalis	LILY OF THE VALLEY	A	4,5	WT	PH	DS,LN	V	H			
Heimerocallis	lilio-asphodelis	DAY LILY, YELLOW DAY LILY	A	6,7	OR,YL	PH	LN	H*			H	H
Hypoxis	hirsuta	YELLOW STAR GRASS	N	4,5,6	YL	PH	DS,GS,LN				V	
Lilium	superbum	TURK'S CAP LILY	N	7,8	OR,YL	PH	WD,FM	H	H			
Narcissus	pseudo-narcissus	DAFFODIL	A	4,5	YL	PH	LN			V	H	V
Ornithogalum	umbellatum	STAR OF BETHLEHEM	A	5,6	WT	PH	GS,FM,DS	H*	H		H	V
Polygonatum	biflorum	SOLOMON'S SEAL	N	5,6,7	YL	PH	WD,DS,SH	H*	V			
Polygonatum	pubescens	HAIRY SOLOMON'S SEAL	N	5,6,7	YL	PH	WD,DS,SH			V		V
Smilacina	racemosa	FALSE SOLOMON'S SEAL	N	6,7	YL	PH	WD,DS,SH	H*				
Smilacina	stellata	STARRY FALSE SOLOMON'S SEAL	N	5,6	YL	PH	DN,WD	H^	H			

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** FAMILY LYCOPODIACEAE												
Lycopodium	obscurum	GROUND PINE, LYCOPODIUM	N		GR	PH	WD,FM					V
** FAMILY LYTHRACEAE												
Cuphea	viscosissima	BLUE WAXWEED	N	7,8,9	BL	AH	DN	V				H
Lythrum	lineare	LOOSESTRIFE	N	7,8,9	PR,WT	PH	SM,DN				V	
Lythrum	salicaria	PURPLE LOOSESTRIFE	A	7,8,9	PR	PH	DS,FM				V	H
Lythrum	virgatum	LOOSESTRIFE	A	7,8	PR,PK	PH	FM,DS	H*				
** FAMILY MAGNOLIACEAE												
Liriodendron	tulipifera	TULIP TREE	N	5	YL,GR	DT	WD,LN				V	
** FAMILY MALVACEAE												
Abutilon	theophrasti	VELVET LEAF	A	6,7,8,9	YL	AH	DS	H*				
Althaea	officinalis	MARSH MALLOW	A	7,8,9	PK,PR	PH	DS,SM				V	
Hibiscus	moscheutos	CRIMSON-EYED ROSE MALLOW	N	6,7,8,9	PK,PR	PH	DS,FM	V				H
Malva	neglecta	COMMON MALLOW	A	5,6,7,8,9	PK,PR	AH	DS,FM	V				H
** FAMILY MENISPERMACEAE												
Menispermum	canadense	MOONSEED	N		WT,GR	V	SH				V	
** FAMILY MIMOSACEAE												
Albizia	julibrissin	MIMOSA	A	6,7	PK,WT	DT	DS,LN	H*				H
** FAMILY MOLLUGINACEAE												
Mollugo	verticillata	CARPET WEED	A	4,5,6,7,8,9,10	GR,WT	AH	DS	V		V		H
** FAMILY MORACEAE												
Broussonetia	papyrifera	PAPER MULBERRY	A			SB,T	DN,DS,SM,FM	H*				
Morus	alba	WHITE MULBERRY	A	4,5	WT	DT	DS,WD	V	V	V	V	H

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Morus	rubra	RED MULBERRY	N	4,5	WT	DT	DS,WD	H*	V	V	V	H
** FAMILY MYRICACEAE												
Comptonia	peregrina	SWEET-FERN	N	5,6	GR	SB	DN, LN	H*				V
Myrica	cerifera	WAX MYRTLE	N	4	GR	SB, T	DN, SM					V
Myrica	pensylvanica	BAYBERRY	N	4,5	GR, YL	SB	DN, DS	H*	V	V	V	H
** FAMILY NYCTAGINACEAE												
Mirabilis	albidus	PALE UMBRELLAWORT	N	6,7,8	PK, WT	PH	DN, DS	V		V	V	H
Mirabilis	hirsuta	UMBRELLA-WORT	A	7,8	PK, PR	PH	DS, DN			V		
Mirabilis	nyctaginea	UMBRELLA-WORT	A	5,6,7,8	PK, PR	PH	DS, DN	H*		V		
** FAMILY NYSSACEAE												
Nyssa	sylvatica	TUPELO, BLACK GUM	N	5,6,7		DT	WD, SH, LN	H				
** FAMILY OLEACEAE												
Forsythia	viridissima	FORSYTHIA, GOLDEN-BELLS	A	4,5	YL	SB	LN	H*		V		V
Fraxinus	americana	WHITE ASH	N		GR, WT	DT	WD, FM, DS, LN			V		H
Fraxinus	pennsylvanica	GREEN ASH	N	4,5	GR, WT	DT	WD, FM, DS, LN	H*	H			
Ligustrum	vulgare	PRIVET	A	6	WT	SB	LN	H*	V	V	H	V
Syringa	vulgaris	LILAC	A	4,5	PR, WT	SB	LN	H*	V			V
** FAMILY ONAGRACEAE												
Epilobium	coloratum	PURPLE-LEAF WILLOW-HERB	N	6,7,8,9	PK, PR	PH	DS, FM	V				H
Epilobium	hirsutum	HAIRY WILLOW HERB	A	5,6,7,8	PR, RD	PH	FM, DS, DN	V			H	H
Epilobium	ciliatum	WILLOW HERB	A	6,7,8	PK, PR	PH	DS					V
Oenothera	biennis	EVENING PRIMROSE	N	6,7,8,9,10	YL	PH	DN, DS	H*	V	V	V	H
Oenothera	cruciata	EVENING PRIMROSE	N	5,6,7,8,9,10	YL	BH	DS					H
Oenothera	laciniata	CUT-LEAVED EVENING PRIMROSE	N	5,6,7,8,9,10	YL	AH	DS, DN			V		
Oenothera	perennis	SUNDROPS	N	7,8,9	YL	PH	SH, GS, DN			V		

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY ORCHIDACEAE												
Spiranthes	cernua	NODDING LADY'S TRESSES	N	8,9,19	WT,YL	PH	DN,FM				H	H
** FAMILY OROBANCHACEAE												
Conophalis	americana	SQUAW ROOT	N	5,6	GR,WT	PH	DN,DS,FM				V	
Orobanche	uniflora	ONE-FLOWERED CANCER-ROOT	N	6,7,8	YL,WT	PH	DN,DS,FM	H*		H		H
** FAMILY OSMUNDACEAE												
Osmunda	cinnamomea	CINNAMON FERN	N	5,6,7,8	GR,YL	PH	FM,DS				H	V
Osmunda	regalis	ROYAL FERN	N	6,7,8,9	GR	PH	DN,DS,SM,FM			V	H	
** FAMILY OXALIDACEAE												
Oxalis	corniculata	CREEPING WOOD SORREL	A	5,6,7,8,9,10	YL	PH	DS,DN,GS	V	H			
Oxalis	dillenii	WOOD-SORREL	N	5,6,7,8,9,10	YL	PH	DS,DN	H				H
Oxalis	stricta	YELLOW WOOD SORREL	A	5,6,7,8,9,10	YL	PH	DS,DN	H*		V	H	V
** FAMILY PEDALIACEAE												
Proboscidea	louisianica	UNICORN PLANT	N	7,8,9	YL,WT	AH				V		V
** FAMILY PHYTOLACCACEAE												
Phytolacca	americana	POKEWEED, POKEBERRY	N	6,7,8,9	WT,PR	PH	DS,DN,WD	H*	V	V	H	H
** FAMILY PINACEAE												
Larix	sp.	LARCH, TAMARACK	A	4,5	GR,YL	DT	WD,LN,DN					H
Picea	pungens	BLUE SPRUCE	A	5,6	GR	CT	LN	H*				
Pinus	nigra	AUSTRIAN PINE	A	5,6	GR	CT	LN,WD	H*				
Pinus	rigida	PITCH PINE	N	4,5	GR,YL	DT	DN,LN,WD	H*			V	V
Pinus	strobus	WHITE PINE	N	5,6	GR	CT	DN,WD,LN	V			V	V
Pinus	sylvestris	SCOTCH PINE	A	5,6	GR	CT	LN	H*		V	V	V

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Pinus	thunbergii	JAPANESE BLACK PINE	A	4,5	GR,YL	CT	DN, LN, WD	H*	V	V	V	V
Pinus	virginiana	VIRGINIA PINE, JERSEY PINE	N	4,5	GR,YL	CT	DN, LN, WD	H				H
Tsuga	canadensis	HEMLOCK	N	6	GR	CT	LN, WD				V	V
** FAMILY PLANTAGINACEAE												
Plantago	aristata	LARGE BRCTED PLANTAIN	A	6,7,8,9,10,11	WT, GR	AH	DS	V	V	V	H	H
Plantago	heterophylla	DWARF PLANTAIN	A	6,7,8	WT	AH	DS, FM, GS				V	
Plantago	lanceolata	RIB PLANTAIN, ENGLISH PLANTAIN	A	5,6,7,8,9,10	WT, GR	PH	DN, DS, GS, LN	H*		V	H	H
Plantago	major	COMMON PLANTAIN	A	5,6,7,8,9,10,11	WT, GR	PH	DS, DN, LN	V	V	V	H	H
Plantago	maritima	SEASIDE PLANTAIN	N	6,7,8,9,10,11	WT, GR	PH	DN, DS, SM	V		H	V	V
Plantago	psyllium	COMMON PLANTAIN	A	5,6,7,8,9,10	WT, GR	AH	DS, LN, DN				V	
Plantago	rugelii	PALE PLANTAIN	N				DS, LN			H		
** FAMILY PLATANACEAE												
Platanus	occidentalis	AMERICAN SYCAMORE	N			DT	LN	H*		V	V	H
Platanus	occidentalis x orientalis	LONDON PLANE TREE	A			DT	LN	V			V	
** FAMILY PLUMBAGINACEAE												
Limonium	carolinianum	SEA LAVENDER	N	7,8,9	PR, PK	PH	DN, SN	H*		V	V	H
** FAMILY POACEAE												
Agropyron	repens	QUACK GRASS	A	6,7,8,9	YL	PH	GS, LN, DS				V	H
Agrostis	hiemalis	REDTOP	N	5,6,7	GR, YL	PH	DN, DS	H*			H	
Agrostis	perennans	UPLAND BENT GRASS	N	5,6,7	GR, YL	PH	DN, DS	V			V	
Agrostis	stolonifera	CREEPING BENT GRASS	N			PH	GS					H
Ammophila	breviligulata	DUNE GRASS, BEACH GRASS	N	8,9,10	WT	PH	DN, DS, GS	H*	V	V	V	H
Andropogon	virginicus	BROOM SEDGE, BLUESTEM	N		GR, YL	PH	DN, DS, GS			V		H
Anthoxanthum	odoratum	SWEET VERNAL GRASS	A	5,6	GR, YL	PH	DN, DS, GS	V		V		H
Aristida	dichotoma	POVERTY GRASS	N		GR, YL	AH	GS					H
Aristida	oligantha	PRAIRE THREE AWNEED GRASS	N		GR, YL	AH	DS, DN, GS					H

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Aristida	tuberculosa	SEASIDE THREE-AWNEED GRASS	N	5,6,7	GR,YL	AH	DN,DS			V		V
Bromus	hordeaceus	SOFT CHESS	A	5,6,7	GR,YL	AH	DS,DN,GS	V	V	V	V	H
Bromus	inermis	SMOOTH RYE BROME	A	5,6	GR,YL	AH	DS,DN,GS	V		V		H
Bromus	japonicus	JAPANESE BROME, JAPANESE CHESS	A	5,6,7	GR,YL	AH	DS,DN,GS	V	V	V	V	H
Bromus	sterilis	BARREN BROME, STERILE BROME	A	5,6,7	GR,YL	AH	DS,DN,GS	V				H
Bromus	tectorum	DOWNY BROME GRASS	A	5,6,7	GR,YL	PH	DS,DN,GS			V		H
Calamagrostis	cinnoides	REEDGRASS	N				GS					H
Calamagrostis	epigeios	FEATHERTOP, BUSHGRASS	A				GS					H
Cenchrus	longispinus	SANDBUR	N	5,6,7	GR,YL	AH	DN,DS	V	V	V	V	H
Cenchrus	tribuloides	DUNE SANDBUR	N	5,6,7	GR,YL	AH	DN,DS	H*		V	V	V
Chloris	verticillata	WINDMILL GRASS, PRAIRE CHLORIS	A		GR,YL	PH	DN,DS,GS					H
Corynephorus	canescens	SILVER HAIR GRASS	A		GR,YL	PH	DN,DS				V	H
Dactylis	glomerata	COCKSFOOT, ORCHARD GRASS	A	5,6	GR,YL	PH	DN,GS,DS	V		V	V	H
Dichanthelium	salbulorum	PANIC GRASS					GS					H
Digitaria	cognatum	FALL WITCHGRASS	N	5,6,7	GR,YL	PH	DN,DS			V		V
Digitaria	ischaemum	SMOOTH CRABGRASS	A	5,6,7	GR,PR	PH	DN,DS					V
Digitaria	sanguinalis	SPIKE GRASS, TALL CRABGRASS	A	6,7,8,9	YL	PH	DS,LN				V	H
Distichlis	spicata	SPIKEGRASS, ALKALIGRASS	N	7,8,9	YL	PH	SM,DN	V			H	H
Echinochloa	crus-galli	MILLET	A									H
Eleusine	indica	GOOSE GRASS, WIREGRASS	A								H	H
Elymus	mollis	WILD RYE	N	5,6,7	GR,YL	PH	DN,DS				V	V
Elymus	virginicus	VIRGINIA WILD RYE	N	5,6,7	GR,YL	AH	DN,DS,WD			V	V	V
Eragrostis	capillaris	LOVE GRASS	N	5,6	GR,YL	PH	DN,GS,DS					H
Eragrostis	cilianensis	LOVE GRASS, STINK GRASS	A	5,6,7	GR,YL	AH	DS,DN			V		V
Eragrostis	curvula	WEeping LOVE GRASS	A	5,6,7	GR,YL	PH	DN,GS,DS	V				H
Eragrostis	minor	LOVE GRASS	A	5,6	GR,YL	AH	DN,GS,DS	V				H
Eragrostis	pectinaceae	LOVEGRASS	N							V		H
Eragrostis	pilosa	INDIA GRASS	A	5,6,7	GR,YL	AH	DS,DN					V
Eragrostis	spectabilis	PURPLE LOVE GRASS, TUMBLEGRASS	N	5,6	GR,YL	PH	DN,GS,DS	V	V	V	H	H
Festuca	elatior	MEADOW FESCUE	A	5,6	GR,YL	PH	DN,GS,DS			V		H

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Festuca	ovina	SHEEP FESCUE	A	5,6	GR,YL	PH	DN,GS,DS					H
Festuca	rubra	RED FESCUE	A	5,6	GR,YL	PH	DN,GS,DS	V				H
Holcus	lanatus	VELVET GRASS	A		YL	PH	GS,DS,LN				H	
Hordeum	jubatum	SQUIRREL TAIL GRASS,BARLEY	N	5,6	GR,YL	PH	DN,GS,DS	V			H	H
Lolium	perenne	ENGLISH RYE GRASS,PERENNIAL RYE	A	5,6,7	GR,YL	PH	DS,DN				V	
Panicum	accuminatum	PANIC GRASS	N	5,6	GR,YL	PH	DN,GS,DS				V	H
Panicum	amarum	PANIC GRASS	N	5,6,7	GR,YL	PH	DS,DN					V
Panicum	capillare	WITCHGRASS	N									H
Panicum	clandestinum	DEER-TONGUE GRASS	N	5,6	GR,YL	PH	GS,DN,WD	V	H	V	V	H
Panicum	dichotomiflorum	SMOOTH PANIC GRASS	N	5,6,7	GR,YL	AH	DS,DN			V		
Panicum	ovale	PANIC GRASS	N	5,6,7	GR,YL	PH	DN,GS,DS			V		H
Panicum	rigidulum	PANIC GRASS	N		GR	PH	GS,WD,DN	H*				
Panicum	scoparium (RARE T-3)	VELVET PANIC GRASS	N									H
Panicum	virgatum	SWITCH GRASS	N	7,8	YL	PH	DN,DS,FM				V	H
Phleum	pratense	TIMOTHY GRASS	A	5,6,7	GR,YL	PH	DS,DN			V		V
Phragmites	australis	COMMON REED, PHRAGMITES	A	5,6,7,8,9	GR,YL	PH	DS,DN	V	V	V	V	H
Poa	annua	ANNUAL BLUEGRASS	A	4,5,6,7,8,9	GR,YL	AH	DS,DN	V	V	V	V	H
Poa	compressa	CANADA BLUEGRASS,WIREGRASS	A	4,5,6,7	GR,YL	PH	DS,DN,GS	V		V		H
Poa	pratenis	KENTUCKY BLUEGRASS,JUNE GRASS	A	5,6,7,8	GR,YL	PH	DS,DN,GS	V		V		H
Poa	sylvestris (RARE)	WOODLAND BLUEGRASS	N	5,6,7,8	GR,YL	PH	DS,WD,GS					H
Schizachyrium	scoparium var. littorale	LITTLE BLUESTEM	N		GR,YL	PH	DN,GL,DS	V	V	V	V	H
Secale	cereale	RYE GRASS	A	5,6,7	GR,YL	AH	DS,DN			V		V
Setaria	geniculata	FOXTAIL GRASS,KNOTROOT	N	5,6,7	GR,YL	PH	DS,DN,GS					H
Setaria	glauca	FOXTAIL GRASS	A	5,6,7	GR,YL	AH	DS,DN	V		V	V	V
Setaria	viridis	GREEN FOXTAIL	A	5,6,7	GR,YL	AH	DS,DN,GS					H
Sorghastrum	nutans	INDIAN GRASS	N									H
Spartina	alterniflora	SALT MARSH GRASS, CORD GRASS	N	6,7,8	GR,YL	PH	DN,SM	H*	V	V	V	H
Spartina	patens	SALT MARSH GRASS, HIGHWATER GRASS	N	6,7,8	GR,YL	PH	DN,SM	H*	V	V	V	H
Spartina	pectinata	SLOUGH GRASS	N	5,6,7	GR,YL	PH	SM,DN	V				
Tridens	flavus	TALL REDTOP GRASS	N	5,6,7	GR,YL	PH	DS	V				

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Triplasis	purpurea	PURPLE SANDGRASS	N	5,6,7	GR,YL	AH	DN,DS					V
Vulpia	octoflora	SIX-WEEK'S-FESCUE	N	5,6,7	GR,YL	AH	DS,DN			V		H
** FAMILY POLYGONACEAE												
Fagopyrum	esculentum	BUCKWHEAT	A	6,7,8,9	WT	AH	GS					V
Polygonella	articulata	JOINTWEED	N	7,8	WT,RD	AH	DN,SM	H*	V	V	H	H
Polygonum	aubertii	SILVER LACE-VINE	A	7,8,9	WT		LN				H	H
Polygonum	aviculare	KNOTWEED	A	5,6,7	WT,PK	AH	DS			V	V	V
Polygonum	cespitosum	SMARTWEED	A	6,7,8	WT,GR	AH	DS					V
Polygonum	convolvulus	BLACK BINDWEED	A	6,7,8,9	WT,GR	V,AH	DS				V	
Polygonum	cuspidatum	JAPANESE KNOTWEED	A	7,8,9	WT,GR	PH	DS,DN	H*	H			H
Polygonum	hydropiper	WATER-PEPPER	A		WT,GR	AH	DS,DN					H
Polygonum	hydropiperoides	MILD WATER-PEPPER	N		WT,GR	PH	DS,DN,SM,FM					H
Polygonum	lapathifolium	WILLOWWEED	N		WT,GR	AH	DS,DN,FM,SM		H			
Polygonum	pensylvanicum	PINKWEED	N	6,7,8,9	WT,RD	AH	DS,GS				V	H
Polygonum	persicaria	LADY'S THUMB	A		PK,RD	AH	DS		H	V		
Polygonum	punctatum	DOTTED SMARTWEED	N	5,6,7,8,9	WT	AH	FM,DS	H*		V		
Polygonum	ramosissimum var. prolificum	SALT MARSH KNOTWEED	N	5,6,7,8,9	WT	AH	SM,DN			V		
Polygonum	sagittatum	TEAR THUMB	N	8,9,10	PK,WT	AH	FM,DS	V				
Polygonum	scandens	CLIMBING FALSE BUCKWHEAT	N	7,8,9	WT	V,AH	DS,FM,WD				H	H
Rumex	acetosella	SHEEP SORREL	A	5,6,7,8,9	GR	PH	DS,GS,LN	H*			H	H
Rumex	crispus	CURLY DOCK	A	6,7,8,9	GR	AH	DS,GS,DN	H*	V	V	H	H
Rumex	hastatulus	WILD SORREL	N	6,7,8,9	GR	PH	DS,DN,GS	H				H
** FAMILY PORTULACEAE												
Portulaca	grandiflora	MOSS-ROSE	A	6,7,8,9,10	RD,YL	PH	GS,DS,LN	H*				V
Portulaca	oleracea	PURSELANE	A	4,5,6,7,8,9,10	YL	PH	DS,GS	V				H
** FAMILY PRIMULACEAE												
Lysimachia	quadrifolia	WHORLED LOOSESTRIFE	N	6,7,8	YL,WT	PH	FM,	H*			H	

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** FAMILY PYROLACEAE												
Chimaphila	maculata	SPOTTED WINTERGREEN	N	6,7,8	WT,PK	PH	WD,SH	V		V	H	
** FAMILY RANUNCULACEAE												
Clematis	terniflora	FALL FLOWERING CLEMATIS	A	8,9,10	WT	PH	LN					V
Ranunculus	abortivus	SMALL FLOWERED CROWFOOT	N	4,5,6	YL,GR	AH	GS,WD,DS					V
Ranunculus	acris	TALL BUTTERCUP	A	4,5,6	YL	PH	DS,GS		H			
Ranunculus	bulbosus	BUTTERCUP	A	4,5,6	YL	PH	WD,GS,SH,LN	H*				
** FAMILY RHAMNACEAE												
Rhamnus	frangula	SMOOTH BUCKTHORN	A	5,6	WT	SB	SH,LN				H	V
** FAMILY ROSACEAE												
Amelanchier	arborea	SERVICEBERRY	N	4,5	WT	SB	SH,WD	H*		H		
Amelanchier	arborea var. laevis	SERVICEBERRY	N			SB						H
Amelanchier	canadensis	SERVICEBERRY, SHADBUSH	N	5,6	WT	SB	WD,SH,GS	V	V	V	H	H
Aronia	arbutifolia	RED CHOKEBERRY	N	5	WT	SB	SH,WD,FM	V	V	H	H	V
Aronia	melanocarpa	BLACK CHOKEBERRY	N	5,6	WT	SB	DS,SH,WD				V	
Aronia	prunifolia	PURPLE CHOKEBERRY	N	5,6	WT	SB	SH,WD,DN		V			
Crataegus	coccinea	HAWTHORNE	N	6	WT,PK	SB,T	WD,SH,LN					V
Crataegus	phaenopyrum	HAWTHORNE	N	6	WT,PK	SB,T	WH,SH,LN				H	V
Crataegus	succulenta	HAWTHORNE	N	4,5	WT	SB,T	SH,WD,LN					H
Fragaria	virginiana	STRAWBERRY	N	4,5,6	WT	PH	GS,LN,SH	V			V	
Malus	coronaria	NARROW LEAF CRAB APPLE	N	4,5	WT	SB,T	SH,WD,LN					H
Malus	floribunda	JAPANESE CRAB APPLE	A					H*				V
Malus	platycarpa	APPLE										H
Malus	pumila	COMMON APPLE	A	5,6	WT,PK	DT	DS,WD	H*	H		V	V
Malus	sp.	CRAB APPLE	N	4,5	WT	SB,T	DS,WD,LN				H	
Potentilla	anserina	SILVERWEED	N	5,6,7,8,9,10	YL	PH	GS,DS					H

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Potentilla	argentea	SILVERY CINQUEFOIL	A	5,6,7,8,9	YL	PH	DS,GS,DN	H*			H	H
Potentilla	canadensis	DWARF CINQUEFOIL, FIVE FINGERS	N	4,5,6,7	YL	PH	DS,SH,DN			V	H	H
Potentilla	norvegica	ROUGH CINQUEFOIL, THREE-LEAF	N	5,6,7,8	YL	AH	GS,DS,LN	V			H	
Potentilla	recta	ROUGH FRIUTED CINQUEFOIL	A	5,6,7,8,9	YL	PH	DS,GS,DN	H*		V	H	H
Potentilla	simplex	OLD-FIELD CINQUEFOIL	N	4,5,6,7	YL	PH	DS,GD,DN		H			
Prunus	cerasus	SOUR CHERRY	A	5,6		SB,T	DS,DN	H*		V		
Prunus	maritima	BEACH PLUM	N	4,5	WT	SB	DN,SH	H^	H	V	H	V
Prunus	pensylvanica	FIRE CHERRY, PIN CHERRY	N	4,5	WT	S	WD	H*				
Prunus	persica	PEACH	A	5,6	PK,WT	DT	LN	H*	V			V
Prunus	serotina	BLACK CHERRY	N	4,5	WT	DT	WD,DN,DS,SH	H*	H	V	H	H
Prunus	virginiana	CHOKE-CHERRY	N	5,6	WT,PK	SB,T	DN,DS,SH	V				V
Pyracantha	coccinea var. lalandi	LALAND FIRETHORN	A	5,6,7,8,9,10	WT,PK	SB	DS,LN,DN	V		V	H	H
Pyrus	communis	PEAR	A					H*				H
Rosa	canina	DOG ROSE	A									H
Rosa	carolina	CAROLINA ROSE, PASTURE ROSE	N	6,7,8,9	PK,WT	SB	WD,DN,DS				H	
Rosa	multiflora	MULTIFLORA ROSE	A	4,5,6,7	GR	PH	FM,WD,DS	V	H		H	H
Rosa	palustris	SWAMP ROSE	N	5,6,7,8,9	WT,PK	SB	DS,DN			H		
Rosa	rugosa	SALT SPRAY ROSE	A	5,6,7,8,9	WT,PK	SB	DS,DN,LN	H*	V	V	V	H
Rosa	virginiana	PASTURE ROSE, WILD ROSE	N	6,7,8,9	PK,WT	SB	DN,DS,WD				V	
Rubus	allegheniensis	NORTHERN BLACKBERRY	N	4,5,	WT	SB	DS,SH,GS	V	H			V
Rubus	flagellaris	NORTHERN DEWBERRY	N	5,6	WT	SB	DS,SH,GS	H*		V		H
Rubus	occidentalis	BLACK RASPBERRY	N	5,6	WT	V,SB	DS,WD,SH		H			
Rubus	pensilvanicus	HIGH-BUSH BLACKBERRY	N	6,7	WT	V,SB	DS,GS,DN				H	H
Sorbus	acuparia	MOUNTAIN ASH	A	5,6	WT	SB	DS,DN,WD				V	
Spiraea	tomentosa	STEEPLE-BUSH	N	6,7,8	PK	PH	DS,FM				H	
Spiraea	vanhouttei	SPIRAEA	A		WT	PH		H*			V	
** FAMILY RUBIACEAE												
Cephalanthus	occidentalis	BUTTONBUSH	N	6,7,8	WT	SB	FM	H*				
Diodia	teres	BUTTONWEED	N	7,8,9	WT,PR	AH	DN,SH	V				

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Galium	aparine	GOOSE GRASS,BEDSTRAW	N	6,7,8	WT,GR	AH	DS,GS	H*	H			
Galium	pilosum	BEDSTRAW, CLEAVERS	N	6,7,8,9,10	WT	PH	DS,WD,GS	H*				
Galium	tinctorium	STIFF BEDSTRAW,WILD MADDER	N	4,5,6,7,8	WT,GR	PH	FM,WD,DS	V			H	H
Mitchella	repens	PARTRIDGE-BERRY	N	5,6	WT	PH	WD	H*				
Sherardia	arvensis	WILD MADDER	A	7	PK,BL	AH	DS,LN				H	
** FAMILY RUPPIACEAE												
Ruppia	maritima	DITCH GRASS,WIDGEON GRASS	A		GN,WT	PH	FM	V			V	
** FAMILY SALICACEAE												
Populus	alba	WHITE POPLAR	A	4,5	GR,YL	DT	WD,FM,LN	H*		V	H	H
Populus	balsamifera	BALSAM POPLAR	N	5	WT,GR	DT	WD,DS,SM,FM	V				
Populus	balsamifera x deltoides	BALM OF GILEAD	A	6	DT,GR	DT	WD,DS,FM	H*	V			
Populus	deltoides	COTTONWOOD	N	5	WT,GR	DT	DS,DN,WD,LN	H*			H	V
Populus	grandidentata	BIG TOOTHED ASPEN	N	4,5	GR,YL	DT	WD,FM,DS	V	H		H	H
Populus	tremuloides	QUAKING ASPEN	N	4,5	GR,YL	DT	WD,FM,DS	V	V	V	H	H
Salix	alba	WHITE WILLOW	A	6	WT,GR	DT	WD,DS,FM		V			
Salix	babylonica	WEeping WILLOW	A	4,5	GR,YL	DT	WD,FM,LN				H	H
Salix	discolor	PUSSY WILLOW	N	4,5	GR,YL	SB	FM,DS,LN	V			H	V
Salix	exigua	SANDBAR WILLOW, RIVER WILLOW	N	4,5,6,7	GR,YL	SB	FM,WD,SM	V			H	H
Salix	fragilis	CRACK WILLOW, BRITTLE WILLOW	A	6	WT,GR	DT	WD,FM,DS		V			V
Salix	lutea	YELLOW WILLOW	N		GR				H	V		
Salix	nigra	BLACK WILLOW, WATER WILLOW	N	6	WT,GR	SB,T	FM,WD		V		V	V
Salix	pentandra	BAY-LEAF WILLOW	A	6	WT,GR	DT	LN				H	
Salix	tristis	UPLAND WILLOW	N	6	WT,GR	SB,T	WD,SH,FM		V			H
Salix	viminalis	SILKY OSIER	A	6	WT,GR	SB,T			V			
** FAMILY SANTALACEAE												
Comandra	umbellata	BASTARD TOADFLAX	N	5,6,7		PH	DN,SM,WD	H*	V		V	

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GENUS	SPECIES	COMNAME	ORG	FLOWERTIME	COLOR	FORM	HABITAT	SH	SI	BP	WR	JB
** FAMILY SAXIFRAGACEAE												
Philadelphus	inodorus	MOCK ORANGE	N	5,6	WT	SB	FM,WD,LN	H*				
** FAMILY SCROPHULARIACEAE												
Agalinus	purpurea	PURPLE GERARDIA, FALSE FOXGLOVE	N	6,7	PR,PK	PH	DS,FM	V		V	H	H
Antirrhinum	orontium	LESSER SNAPDRAGON	A									H
Linaria	canadensis	BLUE TOADFLAX	N	4,5,6	BL,PK	PH	DS,DN,GS	H*		V	H	H
Linaria	vulgaris	BUTTER & EGGS	A	5,6,7,8,9	YL,WT	PH	DS,DN,GS	H*	V	V	H	H
Verbascum	blatteria	MOTH-MULLEIN	A	6,7,8,9,10	YL,WT	PH	DS,DN	H*	V	V	H	H
Verbascum	thapsus	COMMON MULLEIN	A	5,6,7,8,9,10	YL,WT	PH	DS,DN	H*	V	V	H	H
Veronica	arvensis	CORN SPEEDWELL, SPEEDWELL	A	4,5,6,7,8,9	PR,BL	AH	DS,GS,LN	V			H	V
Veronica	chamaedrys	BIRD'S-EYE SPEEDWELL	A	5,6,7	PR,BL	PH	DS,LN,GS	H*				V
Veronica	officinalis	COMMON SPEEDWELL	A	4,5,6,7	BL,WT	PH	DS,DN,GS	V	V	V	V	H
Veronica	serpyllifolia	THYME-LEAF SPEEDWELL	A	4,5,6,7	BL,WT	PH	DS,DN				H	
** FAMILY SIMAROUACEAE												
Ailanthus	altissima	TREE-OF-HEAVEN	A	4,5,	GR,YL	DT	DS, WD	V	V	V	V	H
** FAMILY SMILACACEAE												
Smilax	glauca	SAWBRIER	N	5,6,7	YL	V	WD,SH	V		V	V	V
Smilax	rotundifolia	COMMON GREENBIER	N	4,5	GR	V,PH	WD	H	V	V	V	
** FAMILY SOLANACEAE												
Datura	stramonium	JIMSONWEED	N	5,6,7,8,9	WT,PR	AH	DS,GS,DN	H*	V		V	V
Lycium	barbarum	MATRIMONY-VINE	A	5,6,7,8,9	PR	SB	LN				V	
Physalis	heterophylla	GROUND CHERRY	N	6,7,8,9	WT,GR	PH	DN,DS					H
Solanum	carolinense	HORSE NETTLE	N	5,6,7,8,9,10	YL	PH	DS,GS,DN	H*	H	V	H	H
Solanum	cornutum	BUFFULO BUR	A	5,6,7,8,9	YL	AH	DS,DN					H
Solanum	dulcamara	BITTERSWEET NIGHTSHADE	A	5,6,7,8,9,10	BL,PR	V,HB	DS,DN	H*		V	H	H
Solanum	nigrum	BLACK NIGHTSHADE	A	5,6,7,8,9,10	WT,BL	AH	DS,GS,DN		V		H	

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** FAMILY TAXACEAE												
Taxus	canadensis	AMERICAN YEW, GROUND HEMLOCK	N	5	GR	SB	WD, LN	H*	V	V		V
Taxus	cuspidata	YEW	A				LN	V	V			V
** FAMILY TILIACEAE												
Tilia	americana	BASSWOOD, LINDEN	N	6	WT, GR	DT	WD, LN		H			
** FAMILY TYPHACEAE												
Typha	angustifolia	NARROW-LEAF CATTAIL	N	6,7	GR	PH	FM, DS	H*		V	V	H
Typha	latifolia	COMMON CATTAIL	N	6,7	GR	PH	FM, DS	V	V	V	V	V
** FAMILY ULMACEAE												
Celtis	occidentalis	HACKBERRY	N	5,6	GR	DT	WD, LN	H*	H		H	V
Ulmus	americana	AMERICAN ELM	N	4,5	GR	DT	WD, LN	V	H			
Ulmus	pumila	SIBERIAN ELM	A			DT	WD	H*				
** FAMILY URTICACEAE												
Boehmeria	cylindrica	FALSE NETTLE	N	7,8	WT	PH	FM, DS				H	
Pilea	pumila	CLEARWEED	N	6,7,8	GR	AK	DS					H
** FAMILY VERBENACEAE												
Caryopteris	clandonensis	BLUE MIST	A	6,7,8,9	PK, BL	PH	LN	V				V
Verbena	hastata	BLUE VERVAIN	N	5,6,7,8,9	BL, PR	PH	FM, DS	H*		V	V	H
Verbena	urticifolia	WHITE VERVAIN	N	8	WT		FM			V	V	V
** FAMILY VIOLACEAE												
Viola	odorata	SWEET VIOLET	A	4,5,	PR, WT	PH	DS, WD		H			
Viola	sororia	WOOLY BLUE VIOLETT	N	4,5	WT, PR	PH	WD, FM, DS		H		H	

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** FAMILY VITACEAE												
Ampelopsis	sp.	PORCELAIN-BERRY	A			V	WD					V
Parthenocissus	quinquefolia	VIRGINIA CREEPER	N	6	GR	V	WD,FM,SH	V	V	V	V	H
Vitis	aestivalis	SUMMER GRAPE	N	6	WT	V	WD,SH,DN		V	V		
Vitis	labrusca	FOX GRAPE	N	6	WT	V	WD,DS,SH,GS					H
Vitis	riparia	RIVERSIDE GRAPE, FROST GRAPE	N	6,7	WT	V	WD		V			H
Vitis	sp	WILD GRAPE		4,5,6,7	GR	PH	FM,WD,DS	V				H
** FAMILY ZOSTERACEAE												
Zostera	marina	EEL GRASS	N		GR	PH	FM	V		V	V	