



Swanson Preserve

Floristic Quality Assessment Results

A Floristic Quality Assessment of Swanson Preserve was conducted by Liana May during the summer of 2012.

Floristic quality assessments (FQAs) are a useful tool to measure a plant community's conservation value. To perform an FQA, all vascular plant species in a community are quantified and an index representing the rarity of these species is summed to give a ranking that can be compared across different ecosystem types. This information can then be used to identify high-quality species and groupings of species in order to prioritize conservation and management efforts. At Swanson Preserve the total number of species and native species are:

Native Species	Total Species
173	206

The coefficient of conservation (C) is a value between 0 and 10 assigned to each species, representing the species likelihood to occur in an unaltered, pre-European settlement landscape in the state of Michigan (Herman et al 2001). A C-value of 0 is assigned to species with low fidelity to their natural habitat and the ability to persist in numerous habitat conditions. A C-value of 0 is assigned to invasive species, also called adventives. At Swanson Preserve the mean C-values are:

Native Mean C	Mean C w/ Adventives
4.8	4

The coefficient of wetness (W) is assigned to each species depending on their probability to occur in wetlands, where species with a W-value of -5 are obligatory wetland species, and those with a W-value of +5 are upland species. At Swanson Preserve the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
-1.5	-0.9

FQIs less than 20 have minimal significance, while FQIs greater than 35 represent areas of conservation importance and are floristically significant on a statewide level. Areas with FQIs greater than 50 are extremely rare and represent areas of significant native biodiversity (Herman et al 2001). At Swanson Preserve the FQI's are:

Native FQI	FQI w/ Adventives
62.9	57.6

May, L. 2012. Floristic Quality Assessment and Habitat Mapping of Belanger Creek Preserve

Herman, K. D., L. A. Masters, M. R. Penskar, A. A. Reznicek, G. S. Wilhelm, W. W. Brodovich, and K. P. Gardiner. 2001. Floristic Quality Assessment with Wetland Categories and Examples of Computer Applications for the State of Michigan – Revised, 2nd Edition. Michigan Department of Natural Resources, Wildlife, Natural Heritage Program. Lansing, MI. 19 pp. + Appendices.



Swanson Preserve

High Quality Plant Species

This list represents the most ecologically significant and high quality plants found at the Swanson Preserve during a 2012 Floristic Quality Assessment conducted by Liana May. These plants are the highest quality species found on the property and therefore may be rare, difficult to find, or not be blooming depending on the season.

Please remember to practice Leave No Trace techniques; picking flowers may not seem like a big deal, but it means others won't have a chance to enjoy them. With thousands of people visiting Conservancy properties, the less impact we each make, the longer we will enjoy what we have. If you are interested in conducting a scientific study on the property please contact the Conservancy for written permission.

C	Scientific Name	Common Name
8	<i>Aralia racemosa</i>	SPIKENARD
8	<i>Arctostaphylos uva-ursi</i>	BEARBERRY
8	<i>Equisetum variegatum</i>	VARIEGATED SCOURING RUSH
8	<i>Eriophorum viridi-carinatum</i>	GREEN KEELED COTTON GRASS
8	<i>Gaultheria hispidula</i>	CREEPING SNOWBERRY
8	<i>Juncus brevicaudatus</i>	RUSH
8	<i>Parnassia glauca</i>	GRASS OF PARNASSUS
8	<i>Rhamnus alnifolia</i>	ALDER LEAVED BUCKTHORN
8	<i>Triglochin palustris</i>	SLENDER BOG ARROW GRASS
9	<i>Cypripedium reginae</i>	SHOWY or QUEEN'S LADY SLIPPER
9	<i>Eleocharis compressa</i>	FLATTENED SPIKE RUSH
9	<i>Salix candida</i>	HOARY WILLOW
9	<i>Tiarella cordifolia</i>	FOAMFLOWER
10	<i>Carex cryptolepis</i>	SEDGE
10	<i>Carex disperma</i>	SEDGE
10	<i>Cladium mariscoides</i>	TWIG RUSH
10	<i>Eleocharis rostellata</i>	SPIKE RUSH
10	<i>Epifagus virginiana</i>	BEECH DROPS
10	<i>Equisetum pratense</i>	MEADOW HORSETAIL
10	<i>Hypericum kalmianum</i>	KALM'S ST. JOHN'S WORT
10	<i>Juniperus horizontalis</i>	CREEPING JUNIPER
10	<i>Lobelia kalmii</i>	BOG LOBELIA
10	<i>Mimulus glabratus</i> var. <i>jamesii</i>	JAMES' MONKEY FLOWER
10	<i>Utricularia minor</i>	SMALL BLADDERWORT
10	<i>Veronica beccabunga</i> var. <i>americana</i>	AMERICAN BROOKLIME

To see pictures or learn more about the plants listed above please visit the Michigan Natural Features Inventory website at <http://mnfi.anr.msu.edu/data/specialplants.cfm> or consult Newcomb's Wildflower Guide by Lawrence Newcomb.

Site:	Swanson Preserve
Locale:	Leelanau CcMI
By:	Liana May

FLORISTIC QUALITY DATA		Native			Adventive		
	173 NATIVE SPECIES	Tree	173	84.00%	Tree	33	16.00%
	206 Total Species	Shrub	25	12.10%	Shrub	1	0.50%
	4.8 NATIVE MEAN C	W-Vine	18	8.70%	W-Vine	2	1.00%
	4 W/Adventives	H-Vine	3	1.50%	H-Vine	0	0.00%
	62.9 NATIVE FQI	P-Forb	0	0.00%	P-Forb	0	0.00%
	57.6 W/Adventives	B-Forb	73	35.40%	B-Forb	21	10.20%
	-1.5 NATIVE MEAN W	A-Forb	0	0.00%	A-Forb	5	2.40%
	-0.9 W/Adventives	P-Grass	8	3.90%	P-Grass	0	0.00%
AVG:	Faculative (+)	A-Grass	7	3.40%	A-Grass	4	1.90%
		P-Sedge	0	0.00%	P-Sedge	0	0.00%
		A-Sedge	22	10.70%	A-Sedge	0	0.00%
		Fern	0	0.00%		0	0.00%
			17	8.30%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOM	COMMON NAME
ABIBAL		3 Abies balsamea	-3	FACW	Nt Tree	BALSAM FIR
ACEPEN		5 Acer pensylvanicum	3	FACU	Nt Tree	STRIPED MAPLE
ACERUB		1 Acer rubrum	0	FAC	Nt Tree	RED MAPLE
ACESAU		5 Acer saccharum	3	FACU	Nt Tree	SUGAR MAPLE
ACESPI		5 Acer spicatum	3	FACU	Nt Tree	MOUNTAIN MAPLE
ACHMIL		1 Achillea millefolium	3	FACU	Nt P-Forb	YARROW
ACTPAC		7 Actaea pachypoda	5	UPL	Nt P-Forb	DOLL'S EYES
ALNRUG		5 Alnus rugosa	-5	OBL	Nt Shrub	TAG ALDER
AMBART		0 Ambrosia artemisiifolia	3	FACU	Nt A-Forb	COMMON RAGWEED
AMEARB		4 Amelanchier arborea	3	FACU	Nt Tree	JUNEBERRY
ANAMAR		3 Anaphalis margaritacea	5	UPL	Nt P-Forb	PEARLY EVERLASTING
ANECAN		4 Anemone canadensis	-3	FACW	Nt P-Forb	CANADA ANEMONE
AQUCAN		5 Aquilegia canadensis	1	FAC-	Nt P-Forb	WILD COLUMBINE

ARANUD	5 Aralia nudicaulis	3 FACU	Nt P-Forb	WILD SARSAPARILLA
ARARAC	8 Aralia racemosa	5 UPL	Nt P-Forb	SPIKENARD
ARCUVA	8 Arctostaphylos uva-ursi	5 UPL	Nt Shrub	BEARBERRY
ARITRI	5 Arisaema triphyllum	-2 FACW-	Nt P-Forb	JACK IN THE PULPIT
ASCINC	6 Asclepias incarnata	-5 OBL	Nt P-Forb	SWAMP MILKWEED
ASCSYR	1 Asclepias syriaca	5 UPL	Nt P-Forb	COMMON MILKWEED
ASTDUM	7 Aster dumosus	-1 FAC+	Nt P-Forb	BUSHY ASTER
ASTLAN	2 Aster lanceolatus	-3 FACW	Nt P-Forb	EASTERN LINED ASTER
ASTMAC	4 Aster macrophyllus	5 UPL	Nt P-Forb	BIG LEAVED ASTER
ASTPUN	5 Aster puniceus	-5 OBL	Nt P-Forb	SWAMP ASTER
ATHFIL	4 Athyrium filix-femina	0 FAC	Nt Fern	LADY FERN
BERTHU	0 BERBERIS THUNBERGII	4 FACU-	Ad Shrub	JAPANESE BARBERRY
BETALL	7 Betula alleghaniensis	0 FAC	Nt Tree	YELLOW BIRCH
BETPAP	2 Betula papyrifera	2 FACU+	Nt Tree	PAPER BIRCH
BIDCER	3 Bidens cernuus	-5 OBL	Nt A-Forb	NODDING BUR MARIGOLD
CALCAN	3 Calamagrostis canadensis	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CALTPA	6 Caltha palustris	-5 OBL	Nt P-Forb	MARSH MARIGOLD
CAMAPR	7 Campanula aparinoides	-5 OBL	Nt P-Forb	MARSH BELLFLOWER
CXAURE	3 Carex aurea	-4 FACW+	Nt P-Sedge	SEDGE
CXCOMM	2 Carex communis	5 UPL	Nt P-Sedge	SEDGE
CXCOMO	5 Carex comosa	-5 OBL	Nt P-Sedge	SEDGE
CXCRI	4 Carex crinita	-4 FACW+	Nt P-Sedge	SEDGE
CXCryp	10 Carex cryptolepis	-5 OBL	Nt P-Sedge	SEDGE
CXDISP	10 Carex disperma	-5 OBL	Nt P-Sedge	SEDGE
CXGRAY	6 Carex grayi	-4 FACW+	Nt P-Sedge	SEDGE
CXINTE	3 Carex interior	-5 OBL	Nt P-Sedge	SEDGE
CXLEPA	5 Carex leptalea	-5 OBL	Nt P-Sedge	SEDGE
CXLURI	3 Carex lurida	-5 OBL	Nt P-Sedge	SEDGE
CXSCAB	4 Carex scabrata	-5 OBL	Nt P-Sedge	SEDGE
CXTRIB	3 Carex tribuloides	-4 FACW+	Nt P-Sedge	SEDGE
CXVULP	1 Carex vulpinoidea	-5 OBL	Nt P-Sedge	SEDGE
CENMAU	0 CENTAUREA MACULOSA	5 UPL	Ad B-Forb	SPOTTED BLUET
CERFON	0 CERASTIUM FONTANUM	3 FACU	Ad P-Forb	MOUSE EAR CHICKWEED
CHRLEU	0 CHRYSANTHEMUM LEUCANTHEMUM	5 UPL	Ad P-Forb	OX EYE DAISY
CICBUL	5 Cicuta bulbifera	-5 OBL	Nt P-Forb	WATER HEMLOCK
CIRALP	4 Circaea alpina	-3 FACW	Nt P-Forb	SMALL ENCHANTER'S NIGHT
CIRLUT	2 Circaea lutetiana	3 FACU	Nt P-Forb	ENCHANTER'S NIGHTSHADE

CIRARV	0 CIRSIIUM ARVENSE	3 FACU	Ad P-Forb	CANADIAN THISTLE
CIRPAL	0 CIRSIIUM PALUSTRE	-4 FACW+	Ad B-Forb	MARSH THISTLE
CLAMAR	10 Cladium mariscoides	-5 OBL	Nt P-Sedge	TWIG RUSH
CLEVIR	4 Clematis virginiana	0 FAC	Nt W-Vine	VIRGIN'S BOWER
CLIVUL	3 Clinopodium vulgare	5 UPL	Nt P-Forb	WILD BASIL
CONARV	0 CONVULVULUS ARVENSIS	5 UPL	Ad P-Forb	FIELD BINDWEED
COPTRI	5 Coptis trifolia	-3 FACW	Nt P-Forb	GOLDTHREAD
CORSTO	2 Cornus stolonifera	-3 FACW	Nt Shrub	RED OSIER DOGWOOD
CYCAPU	5 Cyripedium calceolus var. pubesce	-1 FAC+	Nt P-Forb	LARGE YELLOW LADY'S SLIP
CYPREG	9 Cyripedium reginae	-4 FACW+	Nt P-Forb	SHOWY or QUEEN'S LADY S
CYSBUL	5 Cystopteris bulbifera	-2 FACW-	Nt Fern	BULBLET FERN
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
DANSPI	4 Danthonia spicata	5 UPL	Nt P-Grass	POVERTY GRASS; OATGRAS
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
DECVER	7 Decodon verticillatus	-5 OBL	Nt Shrub	WHORLED or SWAMP LOOSI
DROROT	6 Drosera rotundifolia	-5 OBL	Nt P-Forb	ROUND LEAVED SUNDEW
DRYCAR	5 Dryopteris carthusiana	-2 FACW-	Nt Fern	SPINULOSE WOODFERN
DRYCRI	6 Dryopteris cristata	-5 OBL	Nt Fern	CRESTED SHIELD FERN
DRYMAR	5 Dryopteris marginalis	3 FACU	Nt Fern	MARGINAL WOODFERN
ELAUMB	0 ELAEAGNUS UMBELLATA	3 FACU	Ad Shrub	AUTUMN OLIVE
ELECOM	9 Eleocharis compressa	-3 FACW	Nt P-Sedge	FLATTENED SPIKE RUSH
ELEERY	4 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	SPIKE RUSH
ELEROS	10 Eleocharis rostellata	-5 OBL	Nt P-Sedge	SPIKE RUSH
EPIVIR	10 Epifagus virginiana	5 UPL	Nt P-Forb	BEECH DROPS
EPIPAR	0 EPILOBIUM PARVIFLORUM	3 FACU	Ad P-Forb	WILLOW HERB
EPIHEL	0 EPIPACTIS HELLEBORINE	5 UPL	Ad P-Forb	HELLEBORINE
EQUARV	0 Equisetum arvense	0 FAC	Nt Fern Ally	COMMON HORSETAIL
EQUFLU	7 Equisetum fluviatile	-5 OBL	Nt Fern Ally	WATER HORSETAIL
EQUpra	10 Equisetum pratense	-3 FACW	Nt Fern Ally	MEADOW HORSETAIL
EQUsyl	5 Equisetum sylvaticum	-3 FACW	Nt Fern Ally	WOODLAND HORSETAIL
EQUVAR	8 Equisetum variegatum	-3 FACW	Nt Fern Ally	VARIEGATED SCOURING RU
ERASPE	3 Eragrostis spectabilis	5 UPL	Nt P-Grass	PURPLE LOVE GRASS
ERIPHI	2 Erigeron philadelphicus	-3 FACW	Nt P-Forb	MARSH FLEABANE
ERISTR	4 Erigeron strigosus	1 FAC-	Nt P-Forb	DAISY FLEABANE
ERIVID	8 Eriophorum viridi-carinatum	-5 OBL	Nt P-Sedge	GREEN KEELED COTTON GR
EUPMAM	4 Eupatorium maculatum	-5 OBL	Nt P-Forb	JOE PYE WEED
EUPPER	4 Eupatorium perfoliatum	-4 FACW+	Nt P-Forb	COMMON BONESET

EUTGRA	3 Euthamia graminifolia	-2 FACW-	Nt P-Forb	GRASS LEAVED GOLDENROI
FAGGRA	6 Fagus grandifolia	3 FACU	Nt Tree	AMERICAN BEECH
FRAVIR	2 Fragaria virginiana	1 FAC-	Nt P-Forb	WILD STRAWBERRY
FRAAME	5 Fraxinus americana	3 FACU	Nt Tree	WHITE ASH
FRANIG	6 Fraxinus nigra	-4 FACW+	Nt Tree	BLACK ASH
FRAPEN	2 Fraxinus pennsylvanica	-3 FACW	Nt Tree	RED ASH
GALTRR	4 Galium triflorum	2 FACU+	Nt P-Forb	FRAGRANT BEDSTRAW
GAUHIS	8 Gaultheria hispidula	-3 FACW	Nt Shrub	CREEPING SNOWBERRY
GAUPRO	5 Gaultheria procumbens	3 FACU	Nt Shrub	WINTERGREEN
GLYSTR	4 Glyceria striata	-5 OBL	Nt P-Grass	FOWL MANNA GRASS
GYMDRY	5 Gymnocarpium dryopteris	0 FAC	Nt Fern	OAK FERN
HALDEF	7 Halenia deflexa	0 FAC	Nt A-Forb	SPURRED GENTIAN
HIEAUR	0 HIERACIUM AURANTIACUM	5 UPL	Ad P-Forb	ORANGE HAWKWEED
HIEPIS	0 HIERACIUM PILOSELLOIDES	5 UPL	Ad P-Forb	GLAUCOUS KING DEVIL
HYPKAL	10 Hypericum kalmianum	-2 FACW-	Nt Shrub	KALM'S ST. JOHN'S WORT
HYPPER	0 HYPERICUM PERFORATUM	5 UPL	Ad P-Forb	COMMON ST. JOHN'S WORT
ILEVER	5 Ilex verticillata	-4 FACW+	Nt Shrub	MICHIGAN HOLLY
IMPCAP	2 Impatiens capensis	-3 FACW	Nt A-Forb	SPOTTED TOUCH ME NOT
IRIVER	5 Iris versicolor	-5 OBL	Nt P-Forb	WILD BLUE FLAG
JUNBRP	7 Juncus brachycephalus	-5 OBL	Nt P-Forb	RUSH
JUNBRE	8 Juncus brevicaudatus	-5 OBL	Nt P-Forb	RUSH
JUNCAN	6 Juncus canadensis	-5 OBL	Nt P-Forb	CANADIAN RUSH
JUNDUD	1 Juncus dudleyi	0 FAC	Nt P-Forb	DUDLEY'S RUSH
JUNEFF	3 Juncus effusus	-5 OBL	Nt P-Forb	SOFT STEMMED RUSH
JUNNOD	5 Juncus nodosus	-5 OBL	Nt P-Forb	JOINT RUSH
JUNCOI	4 Juniperus communis	3 FACU	Nt Shrub	COMMON or GROUND JUNIF
JUNHOR	10 Juniperus horizontalis	1 FAC-	Nt Shrub	CREEPING JUNIPER
LARLAR	5 Larix laricina	-3 FACW	Nt Tree	TAMARACK
LATLAT	0 LATHYRUS LATIFOLIUS	5 UPL	Ad P-Forb	EVERLASTING PEA
LATPAL	7 Lathyrus palustris	-3 FACW	Nt P-Forb	MARSH PEA
LEEORY	3 Leersia oryzoides	-5 OBL	Nt P-Grass	CUT GRASS
LEMMIN	5 Lemna minor	-5 OBL	Nt A-Forb	SMALL DUCKWEED
LEOCAR	0 LEONURUS CARDIACA	5 UPL	Ad P-Forb	MOTHERWORT
LIPLOE	5 Liparis loeselii	-4 FACW+	Nt P-Forb	LOESEL'S TWAYBLADE
LOBCAR	7 Lobelia cardinalis	-5 OBL	Nt P-Forb	CARDINAL FLOWER
LOBKAL	10 Lobelia kalmii	-5 OBL	Nt P-Forb	BOG LOBELIA
LYCAME	2 Lycopodium americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOU

MAICAC	4 <i>Maianthemum canadense</i>	0 FAC	Nt P-Forb	CANADA MAYFLOWER
MELALB	0 <i>MELILOTUS ALBA</i>	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MENARV	3 <i>Mentha arvensis</i>	-3 FACW	Nt P-Forb	WILD MINT
MENPIP	0 <i>MENTHA PIPERITA</i>	-5 OBL	Ad P-Forb	PEPPERMINT
MIMGLJ	10 <i>Mimulus glabratus</i> var. <i>jamesii</i>	-5 OBL	Nt P-Forb	JAMES' MONKEY FLOWER
MITREP	5 <i>Mitchella repens</i>	2 FACU+	Nt P-Forb	PARTRIDGE BERRY
MYOSCO	0 <i>MYOSOTIS SCORPIOIDES</i>	-5 OBL	Ad P-Forb	FORGET ME NOT
NASOFF	0 <i>NASTURTIUM OFFICINALE</i>	-5 OBL	Ad P-Grass	WATERCRESS
ONOSEN	2 <i>Onoclea sensibilis</i>	-3 FACW	Nt Fern	SENSITIVE FERN
OSMCIN	5 <i>Osmunda cinnamomea</i>	-3 FACW	Nt Fern	CINNAMON FERN
OSMREG	5 <i>Osmunda regalis</i>	-5 OBL	Nt Fern	ROYAL FERN
OSTVIR	5 <i>Ostrya virginiana</i>	4 FACU-	Nt Tree	IRONWOOD; HOP HORNBEA
PANIMP	3 <i>Panicum implicatum</i>	0 FAC	Nt P-Grass	PANIC GRASS
PARGLA	8 <i>Parnassia glauca</i>	-5 OBL	Nt P-Forb	GRASS OF PARNASSUS
PHAARU	0 <i>Phalaris arundinacea</i>	-4 FACW+	Nt P-Grass	REED CANARY GRASS
PHLPRA	0 <i>PHLEUM PRATENSE</i>	3 FACU	Ad P-Grass	TIMOTHY
PICMAR	6 <i>Picea mariana</i>	-3 FACW	Nt Tree	BLACK SPRUCE
PILFON	5 <i>Pilea fontana</i>	-3 FACW	Nt A-Forb	BOG CLEARWEED
PINRES	6 <i>Pinus resinosa</i>	3 FACU	Nt Tree	RED PINE
PINSTR	3 <i>Pinus strobus</i>	3 FACU	Nt Tree	WHITE PINE
PINSYL	0 <i>PINUS SYLVESTRIS</i>	5 UPL	Ad Tree	SCOTCH PINE
PLALAN	0 <i>PLANTAGO LANCEOLATA</i>	0 FAC	Ad P-Forb	ENGLISH PLANTAIN
POACOM	0 <i>POA COMPRESSA</i>	2 FACU+	Ad P-Grass	CANADA BLUEGRASS
POLPAU	7 <i>Polygala paucifolia</i>	3 FACU	Nt P-Forb	GAY WINGS
POLPUB	5 <i>Polygonatum pubescens</i>	5 UPL	Nt P-Forb	DOWNY SOLOMON SEAL
POPBAL	2 <i>Populus balsamifera</i>	-3 FACW	Nt Tree	BALSAM POPLAR
POPGRA	4 <i>Populus grandidentata</i>	3 FACU	Nt Tree	BIG TOOTHED ASPEN
POPTRE	1 <i>Populus tremuloides</i>	0 FAC	Nt Tree	QUAKING ASPEN
POTPAL	7 <i>Potentilla palustris</i>	-5 OBL	Nt P-Forb	MARSH CINQUEFOIL
PRUVUL	0 <i>PRUNELLA VULGARIS</i>	0 FAC	Nt P-Forb	LAWN PRUNELLA
PRUSER	2 <i>Prunus serotina</i>	3 FACU	Nt Tree	WILD BLACK CHERRY
PTEAQU	0 <i>Pteridium aquilinum</i>	3 FACU	Nt Fern	BRACKEN FERN
PYRELL	6 <i>Pyrola elliptica</i>	5 UPL	Nt P-Forb	LARGE LEAVED SHINLEAF
QUERUB	5 <i>Quercus rubra</i>	3 FACU	Nt Tree	RED OAK
RANABO	0 <i>Ranunculus abortivus</i>	-2 FACW-	Nt A-Forb	SMALL FLOWERED BUTTERC
RANREC	5 <i>Ranunculus recurvatus</i>	-3 FACW	Nt A-Forb	HOOKEED CROWFOOT
RHAALN	8 <i>Rhamnus alnifolia</i>	-5 OBL	Nt Shrub	ALDER LEAVED BUCKTHORN

ROSPAL	5 Rosa palustris	-5 OBL	Nt Shrub	SWAMP ROSE
RUBPUB	4 Rubus pubescens	-4 FACW+	Nt P-Forb	DWARF RASPBERRY
RUMACL	0 RUMEX ACETOSELLA	0 FAC	Ad P-Forb	SHEEP SORREL
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
RUMOBT	0 RUMEX OBTUSIFOLIUS	-3 FACW	Ad P-Forb	BITTER DOCK
SALCAN	9 Salix candida	-5 OBL	Nt Shrub	HOARY WILLOW
SALDIS	1 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SAMRAC	3 Sambucus racemosa	2 FACU+	Nt Shrub	RED BERRIED ELDER
SCHACU	5 Schoenoplectus acutus	-5 OBL	Nt P-Sedge	HARDSTEM BULRUSH
SCHPUN	5 Schoenoplectus pungens	-5 OBL	Nt P-Sedge	THREE SQUARE
SCHTAB	4 Schoenoplectus tabernaemontani	-5 OBL	Nt P-Sedge	SOFTSTEM BULRUSH
SCIATR	3 Scirpus atrovirens	-5 OBL	Nt P-Sedge	BULRUSH
SCUGAL	5 Scutellaria galericulata	-5 OBL	Nt P-Forb	COMMON SKULLCAP
SCULAT	5 Scutellaria lateriflora	-5 OBL	Nt P-Forb	MAD DOG SKULLCAP
SHECAN	7 Shepherdia canadensis	5 UPL	Nt Shrub	SOAPBERRY
SMIRAC	5 Smilacina racemosa	3 FACU	Nt P-Forb	FALSE SPIKENARD
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	3 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
SOLHIS	3 Solidago hispida	5 UPL	Nt P-Forb	WHITE GOLDENROD
SOLNEM	2 Solidago nemoralis	5 UPL	Nt P-Forb	OLD FIELD GOLDENROD
SOLPAT	6 Solidago patula	-5 OBL	Nt P-Forb	SWAMP GOLDENROD
SOLRUG	3 Solidago rugosa	-1 FAC+	Nt P-Forb	ROUGH GOLDENROD
SPICER	4 Spiranthes cernua	-2 FACW-	Nt P-Forb	NODDING LADIES' TRESSES
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
THEPAL	2 Thelypteris palustris	-4 FACW+	Nt Fern	MARSH FERN
THEPHE	5 Thelypteris phegopteris	5 UPL	Nt Fern	NORTHERN BEECH FERN
THUOCC	4 Thuja occidentalis	-3 FACW	Nt Tree	ARBOR VITAE
TIACOR	9 Tiarella cordifolia	1 FAC-	Nt P-Forb	FOAMFLOWER
TILAME	5 Tilia americana	3 FACU	Nt Tree	BASSWOOD
TOXRAR	2 Toxicodendron radicans	-1 FAC+	Nt W-Vine	POISON IVY
TRADUB	0 TRAGOPOGON DUBIUS	5 UPL	Ad B-Forb	GOAT'S BEARD
TRIFRA	6 Triadenum fraseri	-5 OBL	Nt P-Forb	MARSH ST. JOHN'S WORT
TRIBOR	5 Trientalis borealis	-1 FAC+	Nt P-Forb	STARFLOWER
TRIPRA	0 TRIFOLIUM PRATENSE	2 FACU+	Ad P-Forb	RED CLOVER
TRIPAL	8 Triglochin palustris	-5 OBL	Nt P-Forb	SLENDER BOG ARROW GRA
TSUCAN	5 Tsuga canadensis	3 FACU	Nt Tree	HEMLOCK
TYPANG	0 TYPHA ANGUSTIFOLIA	-5 OBL	Ad P-Forb	NARROW LEAVED CATTAIL

TYPLAT	1 <i>Typha latifolia</i>	-5 OBL	Nt P-Forb	BROAD LEAVED CATTAIL
UTRMIN	10 <i>Utricularia minor</i>	-5 OBL	Nt P-Forb	SMALL BLADDERWORT
VACMYR	4 <i>Vaccinium myrtilloides</i>	-2 FACW-	Nt Shrub	CANADA BLUEBERRY
VERBEA	10 <i>Veronica beccabunga</i> var. <i>american</i>	-5 OBL	Nt P-Forb	AMERICAN BROOKLIME
VEROFF	0 <i>VERONICA OFFICINALIS</i>	5 UPL	Ad P-Forb	COMMON SPEEDWELL
VIBACE	6 <i>Viburnum acerifolium</i>	5 UPL	Nt Shrub	MAPLE LEAVED ARROW WO
VIOCUC	5 <i>Viola cucullata</i>	-5 OBL	Nt P-Forb	MARSH VIOLET
VITRIP	3 <i>Vitis riparia</i>	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE