



# Belanger Creek Preserve Floristic Quality Assessment Results

A Floristic Quality Assessment of Belanger Creek 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 Belanger Creek Preserve the total number of species and native species are:

Native Species	Total Species
133	170

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 Belanger Creek Preserve the mean C-values are:

Native Mean C	Mean C w/ Adventives
4.1	3.2

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 Belanger Creek Preserve the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
0.1	0.7

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 Belanger Creek Preserve the FQI's are:

Native FQI	FQI w/ Adventives
47.6	42.1

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.

Table 2. Summary of high conservation-value species.

C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
10	Epifagus virginiana	5	UPL	Nt P-Forb	BEECH DROPS
10	Medeola virginiana	5	UPL	Nt P-Forb	INDIAN CUCUMBER ROOT
8	Carex arcta	-5	OBL	Nt P-Sedge	SEDGE
8	Cornus florida	4	FACU-	Nt Tree	FLOWERING DOGWOOD
8	Gaultheria hispidula	-3	FACW	Nt Shrub	CREEPING SNOWBERRY
8	Mitella nuda	-3	FACW	Nt P-Forb	NAKED MITERWORT
8	Rhamnus alnifolia	-5	OBL	Nt Shrub	ALDER LEAVED BUCKTHORN
8	Streptopus amplexifolius	-1	FAC+	Nt P-Forb	TWISTED STALK

Table 3. Summary of non-native species.

SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGROSTIS GIGANTEA	0	FAC	Ad P-Grass	REDTOP
ASPARAGUS OFFICINALIS	3	FACU	Ad P-Forb	ASPARAGUS
BERTEROA INCANA	5	UPL	Ad A-Forb	HOARY ALYSSUM
BROMUS INERMIS	5	UPL	Ad P-Grass	SMOOTH BROME
CENTAUREA MACULOSA	5	UPL	Ad B-Forb	SPOTTED BLUET
CERASTIUM FONTANUM	3	FACU	Ad P-Forb	MOUSE EAR CHICKWEED
CHRYSANTHEMUM LEUCANTHEMUM	5	UPL	Ad P-Forb	OX EYE DAISY
DACTYLIS GLOMERATA	3	FACU	Ad P-Grass	ORCHARD GRASS
DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
DIANTHUS ARMERIA	5	UPL	Ad A-Forb	DEPTFORD PINK
ELAEAGNUS UMBELLATA	3	FACU	Ad Shrub	AUTUMN OLIVE
EPIPACTIS HELLEBORINE	5	UPL	Ad P-Forb	HELLEBORINE
EPILOBIUM PARVIFLORUM	3	FACU	Ad P-Forb	WILLOW HERB
HEMEROCALLIS FULVA	5	UPL	Ad P-Forb	ORANGE DAY LILY
HIERACIUM AURANTIACUM	5	UPL	Ad P-Forb	ORANGE HAWKWEED
LEONURUS CARDIACA	5	UPL	Ad P-Forb	MOTHERWORT
MALUS PUMILA	5	UPL	Ad Tree	APPLE
MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER
MYOSOTIS SCORPIOIDES	-5	OBL	Ad P-Forb	FORGET ME NOT
NASTURTIUM OFFICINALE	-5	OBL	Ad P-Grass	WATERCRESS
PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUEGRASS
POTENTILLA ARGENTEA	3	FACU	Ad P-Forb	SILVERY CINQUEFOIL
POTENTILLA RECTA	5	UPL	Ad P-Forb	ROUGH FRUITED CINQUEFOIL
PRUNELLA VULGARIS	0	FAC	Nt P-Forb	LAWN PRUNELLA
RANUNCULUS ACRIS	-2	FACW-	Ad P-Forb	TALL or COMMON BUTTERCUP
RANUNCULUS REPENS	-1	FAC+	Ad P-Forb	CREEPING BUTTERCUP
RIBES RUBRUM	5	UPL	Ad Shrub	RED CURRANT
ROSA MULTIFLORA	3	FACU	Ad Shrub	MULTIFLORA ROSE
RUMEX ACETOSELLA	0	FAC	Ad P-Forb	SHEEP SORREL
RUMEX OBTUSIFOLIUS	-3	FACW	Ad P-Forb	BITTER DOCK
SILENE VULGARIS	5	UPL	Ad P-Forb	BLADDER CAMPION
SOLANUM DULCAMARA	0	FAC	Ad P-Forb	BITTERSWEET NIGHTSHADE
TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION
TRAGOPOGON DUBIUS	5	UPL	Ad B-Forb	GOAT'S BEARD
TRIFOLIUM PRATENSE	2	FACU+	Ad P-Forb	RED CLOVER
VIBURNUM OPULUS	0	FAC	Ad Shrub	EUROPEAN Highbush CRANBERRY
VICIA VILLOSA	5	UPL	Ad A-Forb	HAIRY VETCH

Site:	Belanger Creek Preserve
Locale:	Leelanau Co, MI
By:	Liana May

**FLORISTIC QUALITY DATA**

		<b>Native</b>			<b>Adventive</b>		
133	NATIVE SPECIES	Tree	20	11.80%	Tree	1	0.60%
170	Total Species	Shrub	14	8.20%	Shrub	4	2.40%
4.1	NATIVE MEAN C	W-Vine	4	2.40%	W-Vine	0	0.00%
3.2	W/Adventives	H-Vine	0	0.00%	H-Vine	0	0.00%
47.6	NATIVE FQI	P-Forb	54	31.80%	P-Forb	19	11.20%
<b>42.1</b>	W/Adventives	B-Forb	1	0.60%	B-Forb	4	2.40%
0.1	NATIVE MEAN W	A-Forb	5	2.90%	A-Forb	3	1.80%
0.7	W/Adventives	P-Grass	6	3.50%	P-Grass	6	3.50%
AVG:	Faculative	A-Grass	0	0.00%	A-Grass	0	0.00%
		P-Sedge	14	8.20%	P-Sedge	0	0.00%
		A-Sedge	0	0.00%	A-Sedge	0	0.00%
		Fern	15	8.80%			

**ACRONYM**

<b>C</b>	<b>SCIENTIFIC NAME</b>	<b>W</b>	<b>WETNESS</b>	<b>PHYSIOGNOMY</b>	<b>COMMON NAME</b>
ACERUB	Acer rubrum	0	FAC	Nt Tree	RED MAPLE
ACESAU	Acer saccharum	3	FACU	Nt Tree	SUGAR MAPLE
ACESPI	Acer spicatum	3	FACU	Nt Tree	MOUNTAIN MAPLE
ACTPAC	Actaea pachypoda	5	UPL	Nt P-Forb	DOLL'S EYES
ADIPED	Adiantum pedatum	1	FAC-	Nt Fern	MAIDENHAIR FERN
AGRGRY	Agrimonia gryposepala	2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRGIG	AGROSTIS GIGANTEA	0	FAC	Ad P-Grass	REDTOP
ALLTRI	Allium tricoccum	2	FACU+	Nt P-Forb	WILD LEEK
AMEARB	Amelanchier arborea	3	FACU	Nt Tree	JUNEBERRY
ANECAN	Anemone canadensis	-3	FACW	Nt P-Forb	CANADA ANEMONE
APOCAN	Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
ARANUD	Aralia nudicaulis	3	FACU	Nt P-Forb	WILD SARSAPARILLA
ARITRI	Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK IN THE PULPIT
ASPOFF	ASPARAGUS OFFICINALIS	3	FACU	Ad P-Forb	ASPARAGUS
ASTFIR	Aster firmus	-5	OBL	Nt P-Forb	SMOOTH SWAMP ASTER
ASTLAN	Aster lanceolatus	-3	FACW	Nt P-Forb	EASTERN LINED ASTER
ASTMAC	Aster macrophyllus	5	UPL	Nt P-Forb	BIG LEAVED ASTER
ASTNOV	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ATHFIL	Athyrium filix-femina	0	FAC	Nt Fern	LADY FERN
BERINC	BERTEROA INCANA	5	UPL	Ad A-Forb	HOARY ALYSSUM
BETALL	Betula alleghaniensis	0	FAC	Nt Tree	YELLOW BIRCH
BETPAP	Betula papyrifera	2	FACU+	Nt Tree	PAPER BIRCH
BIDFRO	Bidens frondosus	-3	FACW	Nt A-Forb	COMMON BEGGAR TICKS
BOTVIR	Botrychium virginianum	3	FACU	Nt Fern	RATTLESNAKE FERN
BROINE	BROMUS INERMIS	5	UPL	Ad P-Grass	SMOOTH BROME
CALCAN	Calamagrostis canadensis	-5	OBL	Nt P-Grass	BLUE JOINT GRASS
CALTPA	Caltha palustris	-5	OBL	Nt P-Forb	MARSH MARIGOLD

CXALBU	5	Carex albursina	5	UPL	Nt P-Sedge	SEDGE
CXARTA	8	Carex arcta	-5	OBL	Nt P-Sedge	SEDGE
CXCRAF	4	Carex crawfordii	-1	FAC+	Nt P-Sedge	SEDGE
CXGRAA	4	Carex gracillima	3	FACU	Nt P-Sedge	SEDGE
CXINTE	3	Carex interior	-5	OBL	Nt P-Sedge	SEDGE
CXLEPA	5	Carex leptalea	-5	OBL	Nt P-Sedge	SEDGE
CXLUPA	4	Carex lupulina	-5	OBL	Nt P-Sedge	SEDGE
CXPEDU	5	Carex pedunculata	5	UPL	Nt P-Sedge	SEDGE
CXPENS	4	Carex pennsylvanica	5	UPL	Nt P-Sedge	SEDGE
CXSCAB	4	Carex scabrata	-5	OBL	Nt P-Sedge	SEDGE
CXSTIP	1	Carex stipata	-5	OBL	Nt P-Sedge	SEDGE
CXSTRI	4	Carex stricta	-5	OBL	Nt P-Sedge	SEDGE
CAUTHA	5	Caulophyllum thalictroides	5	UPL	Nt P-Forb	BLUE COHOSH
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
CIRLUT	2	Circaea lutetiana	3	FACU	Nt P-Forb	ENCHANTER'S NIGHTSHAW
CLEVIR	4	Clematis virginiana	0	FAC	Nt W-Vine	VIRGIN'S BOWER
CLIBOR	5	Clintonia borealis	-1	FAC+	Nt P-Forb	BLUEBEAD LILY; CORN LIL'
CONCAN	0	Conyza canadensis	1	FAC-	Nt A-Forb	HORSEWEED
CORFLO	8	Cornus florida	4	FACU-	Nt Tree	FLOWERING DOGWOOD
CORSTO	2	Cornus stolonifera	-3	FACW	Nt Shrub	RED OSIER DOGWOOD
CYCAPU	5	Cypripedium calceolus var. pubescens	-1	FAC+	Nt P-Forb	LARGE YELLOW LADY'S SL
DACGLO	0	DACTYLIS GLOMERATA	3	FACU	Ad P-Grass	ORCHARD GRASS
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
DIAARM	0	DIANTHUS ARMERIA	5	UPL	Ad A-Forb	DEPTFORD PINK
DRYCAR	5	Dryopteris carthusiana	-2	FACW-	Nt Fern	SPINULOSE WOODFERN
DRYCRI	6	Dryopteris cristata	-5	OBL	Nt Fern	CRESTED SHIELD FERN
DRYINT	5	Dryopteris intermedia	0	FAC	Nt Fern	EVERGREEN WOODFERN
ELAUMB	0	ELAEAGNUS UMBELLATA	3	FACU	Ad Shrub	AUTUMN OLIVE
EPIVIR	10	Epifagus virginiana	5	UPL	Nt P-Forb	BEECH DROPS
EPIANG	3	Epilobium angustifolium	0	FAC	Nt P-Forb	FIREWEED
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
EQUSCI	7	Equisetum scirpoides	-1	FAC+	Nt Fern Ally	DWARF SCOURING RUSH
EQUSYL	5	Equisetum sylvaticum	-3	FACW	Nt Fern Ally	WOODLAND HORSETAIL
ERIANN	0	Erigeron annuus	1	FAC-	Nt B-Forb	ANNUAL FLEABANE
ERYAME	5	Erythronium americanum	5	UPL	Nt P-Forb	YELLOW TROUT LILY
EUPMAM	4	Eupatorium maculatum	-5	OBL	Nt P-Forb	JOE PYE WEED
EUPPER	4	Eupatorium perfoliatum	-4	FACW+	Nt P-Forb	COMMON BONESET
FAGGRA	6	Fagus grandifolia	3	FACU	Nt Tree	AMERICAN BEECH
FESSAX	6	Festuca saximontana	5	UPL	Nt P-Grass	FESCUE
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
GALAPA	0	Galium aparine	3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GALTRR	4	Galium triflorum	2	FACU+	Nt P-Forb	FRAGRANT BEDSTRAW
GAUHS	8	Gaultheria hispidula	-3	FACW	Nt Shrub	CREeping SNOWBERRY
GAUPRO	5	Gaultheria procumbens	3	FACU	Nt Shrub	WINTERGREEN

GERROB	3	Geranium robertianum	5	UPL	Nt A-Forb	HERB ROBERT
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WHITE AVENS
GEURIV	7	Geum rivale	-5	OBL	Nt P-Forb	PURPLE AVENS
GLYSTR	4	Glyceria striata	-5	OBL	Nt P-Grass	FOWL MANNA GRASS
GYMDRY	5	Gymnocarpium dryopteris	0	FAC	Nt Fern	OAK FERN
HEMFUL	0	HEMEROCALLIS FULVA	5	UPL	Ad P-Forb	ORANGE DAY LILY
HIEAUR	0	HIERACIUM AURANTIACUM	5	UPL	Ad P-Forb	ORANGE HAWKWEED
HUPLUC	5	Huperzia lucidula	-1	FAC+	Nt Fern Ally	SHINING CLUBMOSS
IMPCAP	2	Impatiens capensis	-3	FACW	Nt A-Forb	SPOTTED TOUCH ME NOT
JUNEFF	3	Juncus effusus	-5	OBL	Nt P-Forb	SOFT STEMMED RUSH
LEOCAR	0	LEONURUS CARDIACA	5	UPL	Ad P-Forb	MOTHERWORT
LEPCOG	3	Leptoloma cognatum	5	UPL	Nt P-Grass	FALL WITCH GRASS
LOBCAR	7	Lobelia cardinalis	-5	OBL	Nt P-Forb	CARDINAL FLOWER
LONCAN	5	Lonicera canadensis	3	FACU	Nt Shrub	AMERICAN FLY HONEYSUCK
MAICAC	4	Maianthemum canadense	0	FAC	Nt P-Forb	CANADA MAYFLOWER
MALPUM	0	MALUS PUMILA	5	UPL	Ad Tree	APPLE
MEDVIR	10	Medeola virginiana	5	UPL	Nt P-Forb	INDIAN CUCUMBER ROOT
MELSMI	7	Melica smithii	5	UPL	Nt P-Grass	MELIC GRASS
MELALB	0	MELILOTUS ALBA	3	FACU	Ad B-Forb	WHITE SWEET CLOVER
MENARV	3	Mentha arvensis	-3	FACW	Nt P-Forb	WILD MINT
MITREP	5	Mitchella repens	2	FACU+	Nt P-Forb	PARTRIDGE BERRY
MITNUD	8	Mitella nuda	-3	FACW	Nt P-Forb	NAKED MITERWORT
MYOLAX	6	Myosotis laxa	-5	OBL	Nt P-Forb	SMALL FORGET ME NOT
MYOSCO	0	MYOSOTIS SCORPIOIDES	-5	OBL	Ad P-Forb	FORGET ME NOT
NASOFF	0	NASTURTIUM OFFICINALE	-5	OBL	Ad P-Grass	WATERCRESS
ONOSEN	2	Onoclea sensibilis	-3	FACW	Nt Fern	SENSITIVE FERN
ORYASP	6	Oryzopsis asperifolia	5	UPL	Nt P-Grass	ROUGH LEAVED RICE GRASS
OSMCIN	5	Osmunda cinnamomea	-3	FACW	Nt Fern	CINNAMON FERN
OSTVIR	5	Ostrya virginiana	4	FACU-	Nt Tree	IRONWOOD; HOP HORNBE
PARQUI	5	Parthenocissus quinquefolia	1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad P-Grass	TIMOTHY
PHYHET	3	Physalis heterophylla	5	UPL	Nt P-Forb	CLAMMY GROUND CHERRY
PINSTR	3	Pinus strobus	3	FACU	Nt Tree	WHITE PINE
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUEGRASS
POLPUB	5	Polygonatum pubescens	5	UPL	Nt P-Forb	DOWNY SOLOMON SEAL
POPGRA	4	Populus grandidentata	3	FACU	Nt Tree	BIG TOOTHED ASPEN
POPTRE	1	Populus tremuloides	0	FAC	Nt Tree	QUAKING ASPEN
POTARE	0	POTENTILLA ARGENTEA	3	FACU	Ad P-Forb	SILVERY CINQUEFOIL
POTREC	0	POTENTILLA RECTA	5	UPL	Ad P-Forb	ROUGH FRUITED CINQUEFOIL
PRUVUL	0	PRUNELLA VULGARIS	0	FAC	Nt P-Forb	LAWN PRUNELLA
PRUSER	2	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
PRUVIR	2	Prunus virginiana	1	FAC-	Nt Shrub	CHOKE CHERRY
PTEAQU	0	Pteridium aquilinum	3	FACU	Nt Fern	BRACKEN FERN
PYRELL	6	Pyrola elliptica	5	UPL	Nt P-Forb	LARGE LEAVED SHINLEAF
QUERUB	5	Quercus rubra	3	FACU	Nt Tree	RED OAK
RANACR	0	RANUNCULUS ACRIS	-2	FACW-	Ad P-Forb	TALL or COMMON BUTTERCUP
RANREN	0	RANUNCULUS REPENS	-1	FAC+	Ad P-Forb	CREEPING BUTTERCUP
RHAALN	8	Rhamnus alnifolia	-5	OBL	Nt Shrub	ALDER LEAVED BUCKTHORN
RHUTYP	2	Rhus typhina	5	UPL	Nt Tree	STAGHORN SUMAC
RIBCYN	4	Ribes cynosbati	5	UPL	Nt Shrub	PRICKLY or WILD GOOSEBERRY

RIBRUB	0	RIBES RUBRUM	5	UPL	Ad Shrub	RED CURRANT
ROSMUL	0	ROSA MULTIFLORA	3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	1	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	1	Rubus occidentalis	5	UPL	Nt Shrub	BLACK RASPBERRY
RUBPUB	4	Rubus pubescens	-4	FACW+	Nt P-Forb	DWARF RASPBERRY
RUBSTR	2	Rubus strigosus	-2	FACW-	Nt Shrub	WILD RED RASPBERRY
RUMACL	0	RUMEX ACETOSELLA	0	FAC	Ad P-Forb	SHEEP SORREL
RUMOBT	0	RUMEX OBTUSIFOLIUS	-3	FACW	Ad P-Forb	BITTER DOCK
SAMCAN	3	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
SAMRAC	3	Sambucus racemosa	2	FACU+	Nt Shrub	RED BERRIED ELDER
SANCAA	5	Sanguinaria canadensis	4	FACU-	Nt P-Forb	BLOODROOT
SCHTAB	4	Schoenoplectus tabernaemontani	-5	OBL	Nt P-Sedge	SOFTSTEM BULRUSH
SCIATR	3	Scirpus atrovirens	-5	OBL	Nt P-Sedge	BULRUSH
SCULAT	5	Scutellaria lateriflora	-5	OBL	Nt P-Forb	MAD DOG SKULLCAP
SILVUL	0	SILENE VULGARIS	5	UPL	Ad P-Forb	BLADDER CAMPION
SMIRAC	5	Smilacina racemosa	3	FACU	Nt P-Forb	FALSE SPIKENARD
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad P-Forb	BITTERSWEET NIGHTSHAI
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLCAE	7	Solidago caesia	3	FACU	Nt P-Forb	BLUE STEMMED GOLDENF
SOLRUG	3	Solidago rugosa	-1	FAC+	Nt P-Forb	ROUGH GOLDENROD
SPAAME	6	Sparganium americanum	-5	OBL	Nt P-Forb	AMERICAN BUR REED
STRAMP	8	Streptopus amplexifolius	-1	FAC+	Nt P-Forb	TWISTED STALK
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION
TAXCAN	5	Taxus canadensis	3	FACU	Nt Shrub	CANADIAN YEWE
THEPAL	2	Thelypteris palustris	-4	FACW+	Nt Fern	MARSH FERN
THUOCC	4	Thuja occidentalis	-3	FACW	Nt Tree	ARBOR VITAE
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
TRIBOR	5	Trientalis borealis	-1	FAC+	Nt P-Forb	STARFLOWER
TRIPRA	0	TRIFOLIUM PRATENSE	2	FACU+	Ad P-Forb	RED CLOVER
TRICER	5	Trillium cernuum	0	FAC	Nt P-Forb	NODDING TRILLIUM
TRIGRA	5	Trillium grandiflorum	5	UPL	Nt P-Forb	COMMON TRILLIUM
TSUCAN	5	Tsuga canadensis	3	FACU	Nt Tree	HEMLOCK
TYPLAT	1	Typha latifolia	-5	OBL	Nt P-Forb	BROAD LEAVED CATTAIL
VERSER	0	Veronica serpyllifolia	-3	FACW	Nt P-Forb	THYME LEAVED SPEEDWE
VIBACE	6	Viburnum acerifolium	5	UPL	Nt Shrub	MAPLE LEAVED ARROW W
VIBOPO	0	VIBURNUM OPULUS	0	FAC	Ad Shrub	EUROPEAN HIGHBUSH CR
VICVIL	0	VICIA VILLOSA	5	UPL	Ad A-Forb	HAIRY VETCH
VIOCAN	5	Viola canadensis	5	UPL	Nt P-Forb	CANADA VIOLET
VIOCON	3	Viola conspersa	-2	FACW-	Nt P-Forb	DOG VIOLET
VIOCUC	5	Viola cucullata	-5	OBL	Nt P-Forb	MARSH VIOLET
VITRIP	3	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE