



DeYoung Natural Area

Floristic Quality Assessment Results

A Floristic Quality Assessment of DeYoung Natural Area was conducted by Greg LaCross during the summer of 2006.

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 DeYoung Natural Area the total number of species and native species are:

Native Species	Total Species
149	200

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 DeYoung Natural Area the mean C-values are:

Native Mean C	Mean C w/ Adventives
3.8	2.8

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 DeYoung Natural Area the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
-0.5	0.3

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 DeYoung Natural Area the FQI's are:

Native FQI	FQI w/ Adventives
46.5	40.2

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.



DeYoung Natural Area

High Quality Plant Species

This list represents the most ecologically significant and high quality plants found at the DeYoung Natural Area during a 2006 Floristic Quality Assessment conducted by Greg LaCross. 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
6	<i>Asclepias incarnata</i>	SWAMP MILKWEED
6	<i>Aster ontarionis</i>	ONTARIO ASTER
6	<i>Caltha palustris</i>	MARSH MARIGOLD
6	<i>Cornus rugosa</i>	ROUND LEAVED DOGWOOD
6	<i>Fagus grandifolia</i>	AMERICAN BEECH
6	<i>Fraxinus nigra</i>	BLACK ASH
6	<i>Hieracium venosum</i>	RATTLESNAKE WEED
6	<i>Lysimachia thyrsiflora</i>	TUFTED LOOSESTRIFE
6	<i>Pinus resinosa</i>	RED PINE
6	<i>Quercus velutina</i>	BLACK OAK
6	<i>Thalictrum dioicum</i>	EARLY MEADOW RUE
7	<i>Actaea pachypoda</i>	DOLL'S EYES
7	<i>Betula alleghaniensis</i>	YELLOW BIRCH
7	<i>Geum rivale</i>	PURPLE AVENS
7	<i>Nuphar variegata</i>	YELLOW POND LILY
7	<i>Oxalis acetosella</i>	NORTHERN WOOD SORREL
7	<i>Solidago caesia</i>	BLUE STEMMED GOLDENROD
8	<i>Aralia racemosa</i>	SPIKENARD
8	<i>Carex laevivaginata</i>	SEDGE
8	<i>Carex lasiocarpa</i>	SEDGE
8	<i>Milium effusum</i>	WOOD MILLET
8	<i>Solidago ohioensis</i>	OHIO GOLDENROD
9	<i>Tiarella cordifolia</i>	FOAMFLOWER
10	<i>Equisetum palustre</i>	MARSH HORSETAIL
10	<i>Trichophorum cespitosum</i>	BULRUSH

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: Total species-both upland and wetland
 Locale: DeYoung Property - Leelanau County MI
 By: Greg LaCross-Environmental Surveys and Analysis
 File: c:\DOCUME~1\Glacross\Desktop\DeYoungTotal.inv

FLORISTIC QUALITY DATA		Native		Adventive	
149 NATIVE SPECIES	Tree	25	12.50%	Tree	3 1.50%
200 Total Species	Shrub	19	9.50%	Shrub	3 1.50%
3.8 NATIVE MEAN C	W-Vine	5	2.50%	W-Vine	0 0.00%
2.8 W/Adventives	H-Vine	0	0.00%	H-Vine	0 0.00%
46.5 NATIVE FQI	P-Forb	58	29.00%	P-Forb	21 10.50%
40.2 W/Adventives	B-Forb	3	1.50%	B-Forb	9 4.50%
-0.5 NATIVE MEAN W	A-Forb	6	3.00%	A-Forb	5 2.50%
0.3 W/Adventives	P-Grass	9	4.50%	P-Grass	8 4.00%
AVG: Faculative	A-Grass	2	1.00%	A-Grass	2 1.00%
	P-Sedge	13	6.50%	P-Sedge	0 0.00%
	A-Sedge	0	0.00%	A-Sedge	0 0.00%
	Fern	9	4.50%		

ACRONYM C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ACESAU	5 Acer saccharum	3	FACU	Nt Tree	SUGAR MAPLE
ACHMIL	1 Achillea millefolium	3	FACU	Nt P-Forb	YARROW
ACTPAC	7 Actaea pachypoda	5	UPL	Nt P-Forb	DOLL'S EYES
AGRGRY	2 Agrimonia gryposepala	2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRREP	0 AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AGRIG	0 AGROSTIS GIGANTEA	0	FAC	Ad P-Grass	REDTOP
ALLTRI	5 Allium tricoccum	2	FACU+	Nt P-Forb	WILD LEEK
ALNRUG	5 Alnus rugosa	-5	OBL	Nt Shrub	TAG ALDER
ANEQUI	5 Anemone quinquefolia	0	FAC	Nt P-Forb	WOOD ANEMONE
ANTHOW	2 Antennaria howellii	5	UPL	Nt P-Forb	SMALL PUSSYTOES
APOAND	3 Apocynum androsaemifolium	5	UPL	Nt P-Forb	SPREADING DOGBANE
APOCAN	3 Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
ARAGLA	3 Arabis glabra	5	UPL	Nt B-Forb	TOWER MUSTARD
ARARAC	8 Aralia racemosa	5	UPL	Nt P-Forb	SPIKENARD
ARCMIN	0 ARCTIUM MINUS	5	UPL	Ad B-Forb	COMMON BURDOCK
ARITRI	5 Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK IN THE PULPIT

ASCINC	6 <i>Asclepias incarnata</i>	-5 OBL	Nt P-Forb	SWAMP MILKWEED
ASCSYR	1 <i>Asclepias syriaca</i>	5 UPL	Nt P-Forb	COMMON MILKWEED
ASTLAN	2 <i>Aster lanceolatus</i>	-3 FACW	Nt P-Forb	EASTERN LINED ASTER
ASTLAT	2 <i>Aster lateriflorus</i>	-2 FACW-	Nt P-Forb	SIDE FLOWERING ASTER
ASTNOV	3 <i>Aster novae-angliae</i>	-3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTONT	6 <i>Aster ontarionis</i>	0 FAC	Nt P-Forb	ONTARIO ASTER
ASTPUN	5 <i>Aster puniceus</i>	-5 OBL	Nt P-Forb	SWAMP ASTER
ATHFIL	4 <i>Athyrium filix-femina</i>	0 FAC	Nt Fern	LADY FERN
BERINC	0 <i>BERTEROA INCANA</i>	5 UPL	Ad A-Forb	HOARY ALYSSUM
BETALL	7 <i>Betula alleghaniensis</i>	0 FAC	Nt Tree	YELLOW BIRCH
BETPAP	2 <i>Betula papyrifera</i>	2 FACU+	Nt Tree	PAPER BIRCH
BIDFRO	1 <i>Bidens frondosus</i>	-3 FACW	Nt A-Forb	COMMON BEGGAR TICKS
BRAKAB	0 <i>BRASSICA KABER</i>	5 UPL	Ad A-Forb	WILD MUSTARD
CALCAN	3 <i>Calamagrostis canadensis</i>	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CALTPA	6 <i>Caltha palustris</i>	-5 OBL	Nt P-Forb	MARSH MARIGOLD
CXARTT	3 <i>Carex arctata</i>	5 UPL	Nt P-Sedge	SEDGE
CXGRAA	4 <i>Carex gracillima</i>	3 FACU	Nt P-Sedge	SEDGE
CXGRAN	2 <i>Carex granularis</i>	-4 FACW+	Nt P-Sedge	SEDGE
CXHYST	2 <i>Carex hystericina</i>	-5 OBL	Nt P-Sedge	SEDGE
CXLAEV	8 <i>Carex laevivaginata</i>	-5 OBL	Nt P-Sedge	SEDGE
CXLASI	8 <i>Carex lasiocarpa</i>	-5 OBL	Nt P-Sedge	SEDGE
CXPEDU	5 <i>Carex pedunculata</i>	5 UPL	Nt P-Sedge	SEDGE
CXRETS	3 <i>Carex retrorsa</i>	-5 OBL	Nt P-Sedge	SEDGE
CXSCAB	4 <i>Carex scabrata</i>	-5 OBL	Nt P-Sedge	SEDGE
CENMAU	0 <i>CENTAUREA MACULOSA</i>	5 UPL	Ad B-Forb	SPOTTED BLUET
CICINT	0 <i>CICORIUM INTYBUS</i>	5 UPL	Ad P-Forb	CHICORY
CICBUL	5 <i>Cicuta bulbifera</i>	-5 OBL	Nt P-Forb	WATER HEMLOCK
CIRARV	0 <i>CIRSIUM ARVENSE</i>	3 FACU	Ad P-Forb	CANADIAN THISTLE
CLEVIR	4 <i>Clematis virginiana</i>	0 FAC	Nt W-Vine	VIRGIN'S BOWER
CORAMO	2 <i>Cornus amomum</i>	-4 FACW+	Nt Shrub	SILKY DOGWOOD
CORRUG	6 <i>Cornus rugosa</i>	5 UPL	Nt Shrub	ROUND LEAVED DOGWOOD
CORSTO	2 <i>Cornus stolonifera</i>	-3 FACW	Nt Shrub	RED OSIER DOGWOOD
DACGLO	0 <i>DACTYLIS GLOMERATA</i>	3 FACU	Ad P-Grass	ORCHARD GRASS
DANSPI	4 <i>Danthonia spicata</i>	5 UPL	Nt P-Grass	POVERTY GRASS; OATGRASS
DAUCAR	0 <i>DAUCUS CAROTA</i>	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
DENDIP	5 <i>Dentaria diphylla</i>	5 UPL	Nt P-Forb	TWO LEAVED TOOTHWORT
DIAARM	0 <i>DIANTHUS ARMERIA</i>	5 UPL	Ad A-Forb	DEPTFORD PINK

DIGISC	0 DIGITARIA ISCHAEMUM	3 FACU	Ad A-Grass	SMOOTH CRAB GRASS
DIGSAN	0 DIGITARIA SANGUINALIS	3 FACU	Ad A-Grass	HAIRY CRAB GRASS
DRYCAR	5 Dryopteris carthusiana	-2 FACW-	Nt Fern	SPINULOSE WOODFERN
ECHMUR	1 Echinochloa muricata	-5 OBL	Nt A-Grass	BARNYARD GRASS
ELAANG	0 ELAEAGNUS ANGUSTIFOLIA	4 FACU-	Ad Tree	RUSSIAN OLIVE
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EPIPAR	0 EPILOBIUM PARVIFLORUM	3 FACU	Ad P-Forb	WILLOW HERB
EPIHEL	0 EPIPACTIS HELLEBORINE	5 UPL	Ad P-Forb	HELLEBORINE
EQUHYE	2 Equisetum hyemale	-2 FACW-	Nt Fern Ally	SCOURING RUSH
EQUPAL	10 Equisetum palustre	-3 FACW	Nt Fern Ally	MARSH HORSETAIL
EQUSYL	5 Equisetum sylvaticum	-3 FACW	Nt Fern Ally	WOODLAND HORSETAIL
ERIANN	0 Erigeron annuus	1 FAC-	Nt B-Forb	ANNUAL FLEABANE
ERISTR	4 Erigeron strigosus	1 FAC-	Nt P-Forb	DAISY 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
EUPESU	0 EUPHORBIA ESULA	5 UPL	Ad P-Forb	LEAFY SPURGE
FAGGRA	6 Fagus grandifolia	3 FACU	Nt Tree	AMERICAN BEECH
FESPRA	0 FESTUCA PRATENSIS	4 FACU-	Ad P-Grass	MEADOW FESCUE
FESRUB	0 FESTUCA RUBRA	1 FAC-	Ad P-Grass	RED 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
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
HAMVIR	5 Hamamelis virginiana	3 FACU	Nt Shrub	WITCH HAZEL
HIEAUR	0 HIERACIUM AURANTIACUM	5 UPL	Ad P-Forb	ORANGE HAWKWEED
HIESCA	3 Hieracium scabrum	5 UPL	Nt P-Forb	ROUGH HAWKWEED
HIEVEN	6 Hieracium venosum	5 UPL	Nt P-Forb	RATTLESNAKE WEED
HYPPER	0 HYPERICUM PERFORATUM	5 UPL	Ad P-Forb	COMMON ST. JOHN'S WORT
IMPCAP	2 Impatiens capensis	-3 FACW	Nt A-Forb	SPOTTED TOUCH ME NOT
IRIVIR	5 Iris virginica	-5 OBL	Nt P-Forb	SOUTHERN BLUE FLAG
JUGNIG	5 Juglans nigra	3 FACU	Nt Tree	BLACK WALNUT
JUNEFF	3 Juncus effusus	-5 OBL	Nt P-Forb	SOFT STEMMED RUSH
JUNNOD	5 Juncus nodosus	-5 OBL	Nt P-Forb	JOINT RUSH

LEEORY	3 <i>Leersia oryzoides</i>	-5 OBL	Nt P-Grass	CUT GRASS
LEMMIN	5 <i>Lemna minor</i>	-5 OBL	Nt A-Forb	SMALL DUCKWEED
LEOCAR	0 LEONURUS CARDIACA	5 UPL	Ad P-Forb	MOTHERWORT
LONDIO	5 <i>Lonicera dioica</i>	3 FACU	Nt W-Vine	RED HONEYSUCKLE
LONBEL	0 LONICERA XBELLA	3 FACU	Ad Shrub	HYBRID HONEYSUCKLE
LYCAME	2 <i>Lycopus americanus</i>	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
LYSTHY	6 <i>Lysimachia thyrsoflora</i>	-5 OBL	Nt P-Forb	TUFTED LOOSESTRIFE
MAICAC	4 <i>Maianthemum canadense</i>	0 FAC	Nt P-Forb	CANADA MAYFLOWER
MALPUM	0 MALUS PUMILA	5 UPL	Ad Tree	APPLE
MATSTR	3 <i>Matteuccia struthiopteris</i>	-3 FACW	Nt Fern	OSTRICH FERN
MEDLUP	0 MEDICAGO LUPULINA	1 FAC-	Ad A-Forb	BLACK MEDICK
MEDSAT	0 MEDICAGO SATIVA	5 UPL	Ad P-Forb	ALFALFA
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MELLOF	0 MELILOTUS OFFICINALIS	3 FACU	Ad B-Forb	YELLOW SWEET CLOVER
MENARV	3 <i>Mentha arvensis</i>	-3 FACW	Nt P-Forb	WILD MINT
MENPIP	0 MENTHA PIPERITA	-5 OBL	Ad P-Forb	PEPPERMINT
MILEFF	8 <i>Milium effusum</i>	4 FACU-	Nt P-Grass	WOOD MILLET
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
MYOSCO	0 MYOSOTIS SCORPIOIDES	-5 OBL	Ad P-Forb	FORGET ME NOT
NASOFF	0 NASTURTIUM OFFICINALE	-5 OBL	Ad P-Grass	WATERCRESS
NUPVAR	7 <i>Nuphar variegata</i>	-5 OBL	Nt P-Forb	YELLOW POND LILY
OENPAR	2 <i>Oenothera parviflora</i>	3 FACU	Nt B-Forb	EVENING PRIMROSE
ONosen	2 <i>Onoclea sensibilis</i>	-3 FACW	Nt Fern	SENSITIVE FERN
ORIVUL	0 ORIGANUM VULGARE	5 UPL	Ad P-Forb	WILD MARJORAM
OSMCLI	4 <i>Osmorhiza claytonii</i>	4 FACU-	Nt P-Forb	HAIRY SWEET CICELY
OSMREG	5 <i>Osmunda regalis</i>	-5 OBL	Nt Fern	ROYAL FERN
OSTVIR	5 <i>Ostrya virginiana</i>	4 FACU-	Nt Tree	IRONWOOD; HOP HORNBEAM
OXAACE	7 <i>Oxalis acetosella</i>	3 FACU	Nt P-Forb	NORTHERN WOOD SORREL COMMON YELLOW WOOD
OXASTR	0 <i>Oxalis stricta</i>	3 FACU	Nt P-Forb	SORREL
PANCAP	1 <i>Panicum capillare</i>	0 FAC	Nt A-Grass	WITCH GRASS
PANDEP	4 <i>Panicum depauperatum</i>	5 UPL	Nt P-Grass	PANIC GRASS
PARQUI	5 <i>Parthenocissus quinquefolia</i>	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 <i>Phalaris arundinacea</i>	-4 FACW+	Nt P-Grass	REED CANARY GRASS
PHLPRA	0 PHLEUM PRATENSE	3 FACU	Ad P-Grass	TIMOTHY
PHYOPU	4 <i>Physocarpus opulifolius</i>	-2 FACW-	Nt Shrub	NINEBARK

PINRES	6 Pinus resinosa	3 FACU	Nt Tree	RED PINE
PINSTR	3 Pinus strobus	3 FACU	Nt Tree	WHITE PINE
PLALAN	0 PLANTAGO LANCEOLATA	0 FAC	Ad P-Forb	ENGLISH PLANTAIN
PLARUG	0 Plantago rugelii	0 FAC	Nt A-Forb	RED STALKED PLANTAIN
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUEGRASS
POPBAL	2 Populus balsamifera	-3 FACW	Nt Tree	BALSAM POPLAR
POPGRA	4 Populus grandidentata	3 FACU	Nt Tree	BIG TOOTHED ASPEN
POPTRE	1 Populus tremuloides	0 FAC	Nt Tree	QUAKING ASPEN
PRUPEN	3 Prunus pensylvanica	4 FACU-	Nt Tree	PIN CHERRY
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
QUEALB	5 Quercus alba	3 FACU	Nt Tree	WHITE OAK
QUERUB	5 Quercus rubra	3 FACU	Nt Tree	RED OAK
QUEVEL	6 Quercus velutina	5 UPL	Nt Tree	BLACK OAK
RANACR	0 RANUNCULUS ACRIS	-2 FACW-	Ad P-Forb	TALL or COMMON BUTTERCUP
RANBUL	0 RANUNCULUS BULBOSUS	-3 FACW	Ad P-Forb	BULBOUS BUTTERCUP
RANREC	5 Ranunculus recurvatus	-3 FACW	Nt A-Forb	HOOKED CROWFOOT
RHAFRA	0 RHAMNUS FRANGULA	-1 FAC+	Ad Shrub	GLOSSY BUCKTHORN
RHUTYP	2 Rhus typhina	5 UPL	Nt Tree	STAGHORN SUMAC
RIBCYN	4 Ribes cynosbati	5 UPL	Nt Shrub	PRICKLY or WILD GOOSEBERRY
ROSPAL	5 Rosa palustris	-5 OBL	Nt Shrub	SWAMP ROSE
RUBALL	1 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBHIS	4 Rubus hispidus	-3 FACW	Nt Shrub	SWAMP DEWBERRY
RUBOCC	1 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUBSTR	2 Rubus strigosus	-2 FACW-	Nt Shrub	WILD RED RASPBERRY
RUDHIR	1 Rudbeckia hirta	3 FACU	Nt P-Forb	BLACK EYED SUSAN
SALDIS	1 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALERI	2 Salix eriocephala	-3 FACW	Nt Shrub	WILLOW
SALEXI	1 Salix exigua	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	5 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SALPET	1 Salix petiolaris	-4 FACW+	Nt Shrub	SLENDER WILLOW
SAMCAN	3 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCHACU	5 Schoenoplectus acutus	-5 OBL	Nt P-Sedge	HARDSTEM BULRUSH
SCIATR	3 Scirpus atrovirens	-5 OBL	Nt P-Sedge	BULRUSH
SCIPEN	3 Scirpus pendulus	-5 OBL	Nt P-Sedge	BULRUSH
SCUGAL	5 Scutellaria galericulata	-5 OBL	Nt P-Forb	COMMON SKULLCAP

SILVUL	0 SILENE VULGARIS	5 UPL	Ad P-Forb	BLADDER CAMPION
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad P-Forb	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLCAE	7 Solidago caesia	3 FACU	Nt P-Forb	BLUE STEMMED GOLDENROD
SOLCAN	1 Solidago canadensis	3 FACU	Nt P-Forb	CANADA GOLDENROD
SOLGIG	3 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
SOLJUN	3 Solidago juncea	5 UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	2 Solidago nemoralis	5 UPL	Nt P-Forb	OLD FIELD GOLDENROD
SOLOHI	8 Solidago ohioensis	-5 OBL	Nt P-Forb	OHIO GOLDENROD
SOLRUG	3 Solidago rugosa	-1 FAC+	Nt P-Forb	ROUGH GOLDENROD
SPAEUR	5 Sparganium eurycarpum	-5 OBL	Nt P-Forb	COMMON BUR REED
SPOCRY	3 Sporobolus cryptandrus	4 FACU-	Nt P-Grass	SAND DROPSEED
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
THADIO	6 Thalictrum dioicum	2 FACU+	Nt P-Forb	EARLY MEADOW RUE
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
TRAPRA	0 TRAGOPOGON PRATENSIS	5 UPL	Ad B-Forb	COMMON GOAT'S BEARD
TRICES	10 Trichophorum cespitosum	-5 OBL	Nt P-Sedge	BULRUSH
TRIPRA	0 TRIFOLIUM PRATENSE	2 FACU+	Ad P-Forb	RED CLOVER
TRIREP	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER
TRIMEL	10 Trisetum melicoides	-3 FACW	Nt P-Grass	TRISSETUM
TSUCAN	5 Tsuga canadensis	3 FACU	Nt Tree	HEMLOCK
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD LEAVED CATTAIL
ULMAME	1 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM
VERTHA	0 VERBASCUM THAPSUS	5 UPL	Ad B-Forb	COMMON MULLEIN
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN
VERBEB	0 VERONICA BECCABUNGA	-5 OBL	Ad P-Forb	BROOKLIME
VIBOPO	0 VIBURNUM OPULUS	0 FAC	Ad Shrub	EUROPEAN Highbush CRANBERRY
VIBOPA	5 Viburnum opulus var. americanum	-3 FACW	Nt Shrub	Highbush CRANBERRY
VICVIL	0 VICIA VILLOSA	5 UPL	Ad A-Forb	HAIRY VETCH
VIOCUC	5 Viola cucullata	-5 OBL	Nt P-Forb	MARSH VIOLET
VIOPUB	4 Viola pubescens	4 FACU-	Nt P-Forb	YELLOW VIOLET
VITRIP	3 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE