



Preserve

Floristic Quality Assessment Results

A Floristic Quality Assessment of **Cedar River Preserve** was conducted by **Liana May** during the summer of **2010**.

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 **Cedar River Preserve** the total number of species and native species are:

Native Species	Total Species
262	281

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 **Cedar River Preserve** the mean C-values are:

Native Mean C	Mean C w/ Adventives
5.6	5.2

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 **Cedar River Preserve** the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
-2.6	-2.4

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 **Cedar River Preserve** the FQI's are:

Native FQI	FQI w/ Adventives
91.1	87.9

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.



Cedar River Preserve

High Quality Plant Species

This list represents the most ecologically significant and high quality plants found at the Cedar River Preserve during a 2010 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.

IO	Scientific Name	Common Name
10	<i>Andromeda glaucophylla</i>	BOG ROSEMARY
10	<i>Cardamine pratensis</i>	CUCKOO FLOWER
10	<i>Carex cryptolepis, disperma, folliculata, prasina, rostrata</i>	SEDGES
10	<i>Cladium mariscoides</i>	TWIG RUSH
10	<i>Eleocharis quinqueflora</i>	SPIKE RUSH
10	<i>Eleocharis rostellata</i>	SPIKE RUSH
10	<i>Epifagus virginiana</i>	BEECH DROPS
10	<i>Epilobium palustre</i>	MARSH WILLOW HERB
10	<i>Eriophorum gracile</i>	SLENDER COTTON GRASS
10	<i>Eriophorum spissum</i>	COTTON GRASS
10	<i>Hippuris vulgaris</i>	MARE'S TAIL
10	<i>Kalmia polifolia</i>	SWAMP LAUREL
10	<i>Lilium philadelphicum</i>	WOOD LILY
10	<i>Listera convallarioides</i>	BROAD LEAVED TWAYBLADE
10	<i>Listera cordata</i>	HEART LEAVED TWAYBLADE
10	<i>Lobelia kalmii</i>	BOG LOBELIA
10	<i>Medeola virginiana</i>	INDIAN CUCUMBER ROOT
10	<i>Megalodonta beckii</i>	WATER MARIGOLD
10	<i>Muhlenbergia glomerata</i>	MARSH WILD TIMOTHY
10	<i>Myriophyllum exalbescens</i>	SPIKED WATER MILFOIL
10	<i>Pogonia ophioglossoides</i>	ROSE POGONIA
10	<i>Potamogeton alpinus</i>	PONDWEED
10	<i>Potamogeton obtusifolius</i>	PONDWEED
10	<i>Potamogeton vaginatus</i>	PONDWEED
10	<i>Potentilla fruticosa</i>	SHRUBBY CINQUEFOIL
10	<i>Sarracenia purpurea</i>	PITCHER PLANT
10	<i>Utricularia intermedia</i>	FLAT LEAVED BLADDERWORT

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.

Cedar River Preserve- All
Floristic Quality Index

Site: Cedar River Preserve-All
Locale: Cedar MI
Date: May-Oct 2010
By: Liana May

FLORISTIC QUALITY DATA

262 NATIVE SPECIES
281 Total Species
5.6 NATIVE MEAN C
5.2 W/Adventives
91.1 NATIVE FOI
87.9 W/Adventives
-2.6 NATIVE MEAN W
-2.4 W/Adventives
AVG: Fac. Wetland

Native	262	93.20%	Adventive	19	6.80%
Tree	18	6.40%	Tree	0	0.00%
Shrub	32	11.40%	Shrub	1	0.40%
W-Vine	5	1.80%	W-Vine	0	0.00%
H-Vine	0	0.00%	H-Vine	0	0.00%
P-Forb	125	44.50%	P-Forb	11	3.90%
B-Forb	3	1.10%	B-Forb	2	0.70%
A-Forb	8	2.80%	A-Forb	1	0.40%
P-Grass	12	4.30%	P-Grass	4	1.40%
A-Grass	1	0.40%	A-Grass	0	0.00%
P-Sedq	36	12.80%	P-Sedq	0	0.00%
A-Sedq	0	0.00%	A-Sedq	0	0.00%
Fern	22	7.80%			

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABIBAL	3	Abies balsamea	-3	FACW	Nt Tree	BALSAM FIR
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
ACTRUB	7	Actaea rubra	5	UPL	Nt P-Forb	RED BANEBERRY
ADIPED	6	Adiantum pedatum	1	FAC-	Nt Fern	MAIDENHAIR FERN
AGRGIG	0	AGROSTIS GIGANTEA	0	FAC	Ad P-Grass	REDTOP
AGRHYE	4	Agrostis hyemalis	1	FAC-	Nt P-Grass	TICKLEGRASS
AGRPER	5	Agrostis perennans	1	FAC-	Nt P-Grass	AUTUMN BENT GRASS
AGRSTO	0	AGROSTIS STOLONIFERA	-3	FACW	Ad P-Grass	CREEPING BENT
ALNRUG	5	Alnus rugosa	-5	OBL	Nt Shrub	TAG ALDER
AMEARB	4	Amelanchier arborea	3	FACU	Nt Tree	JUNEBERRY
ANDGLA	10	Andromeda glaucophylla	-5	OBL	Nt Shrub	BOG ROSEMARY
ARANUD	5	Aralia nudicaulis	3	FACU	Nt P-Forb	WILD SARSAPARILLA
ARITRI	5	Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK IN THE PULPIT
AROPRU	5	Aronia prunifolia	-3	FACW	Nt Shrub	BLACK CHOKEBERRY
ASCINC	6	Asclepias incarnata	-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASTBOR	9	Aster borealis	-5	OBL	Nt P-Forb	NORTHERN BOG ASTER
ASTLAT	2	Aster lateriflorus	-2	FACW-	Nt P-Forb	SIDE FLOWERING ASTER
ASTLON	9	Aster longifolius	-2	FACW-	Nt P-Forb	LONG LEAVED ASTER
ASTMAC	4	Aster macrophyllus	5	UPL	Nt P-Forb	BIG LEAVED ASTER
ASTONT	6	Aster ontarionis	0	FAC	Nt P-Forb	ONTARIO ASTER
ASTPUN	5	Aster puniceus	-5	OBL	Nt P-Forb	SWAMP ASTER
ATHFIL	4	Athyrium filix-femina	0	FAC	Nt Fern	LADY FERN
BETALL	7	Betula alleghaniensis	0	FAC	Nt Tree	YELLOW BIRCH
BETPAP	2	Betula papyrifera	2	FACU+	Nt Tree	PAPER BIRCH
BETPUM	8	Betula pumila	-5	OBL	Nt Shrub	BOG BIRCH
BIDCON	5	Bidens connatus	-5	OBL	Nt A-Forb	PURPLE STEMMED TICKSEED
BOECYL	5	Boehmeria cylindrica	-5	OBL	Nt P-Forb	FALSE NETTLE
BOTVIR	5	Botrychium virginianum	3	FACU	Nt Fern	RATTLESNAKE FERN
CALCAN	3	Calamagrostis canadensis	-5	OBL	Nt P-Grass	BLUE JOINT GRASS
CALTUB	9	Calopogon tuberosus	-5	OBL	Nt P-Forb	GRASS PINK
CALTPA	6	Caltha palustris	-5	OBL	Nt P-Forb	MARSH MARI GOLD
CALSEP	2	Calystegia sepium	0	FAC	Nt P-Forb	HEDGE BINDWEED
CAMAPR	7	Campanula aparinoides	-5	OBL	Nt P-Forb	MARSH BELLFLOWER
CARPRA	10	Cardamine pratensis	-5	OBL	Nt P-Forb	CUCKOO FLOWER
CXAQUA	7	Carex aquatilis	-5	OBL	Nt P-Sedq	SEDGE
CXAURE	3	Carex aurea	-4	FACW+	Nt P-Sedq	SEDGE
CXCOMO	5	Carex comosa	-5	OBL	Nt P-Sedq	SEDGE
CXCryp	10	Carex cryptolepis	-5	OBL	Nt P-Sedq	SEDGE
CXDISP	10	Carex disperma	-5	OBL	Nt P-Sedq	SEDGE
CXFOLL	10	Carex folliculata	-5	OBL	Nt P-Sedq	SEDGE
CXGRAA	4	Carex gracillima	3	FACU	Nt P-Sedq	SEDGE
CXHYST	2	Carex hystericina	-5	OBL	Nt P-Sedq	SEDGE
CXINTE	3	Carex interior	-5	OBL	Nt P-Sedq	SEDGE
CXINTU	3	Carex intumescens	-4	FACW+	Nt P-Sedq	SEDGE
CXLACU	6	Carex lacustris	-5	OBL	Nt P-Sedq	SEDGE
CXLASI	8	Carex lasiocarpa	-5	OBL	Nt P-Sedq	SEDGE
CXLAXF	8	Carex laxiflora	0	FAC	Nt P-Sedq	SEDGE
CXLEPA	5	Carex leptalea	-5	OBL	Nt P-Sedq	SEDGE
CXMERR	4	Carex merritt-fernaldii	5	UPL	Nt P-Sedq	SEDGE
CXPAUP	8	Carex paupercula	-5	OBL	Nt P-Sedq	SEDGE
CXPRAS	10	Carex prasina	-5	OBL	Nt P-Sedq	SEDGE
CXPSEU	5	Carex pseudo-cyperus	-5	OBL	Nt P-Sedq	SEDGE
CXRETS	3	Carex retrorsa	-5	OBL	Nt P-Sedq	SEDGE
CXROST	10	Carex rostrata	-5	OBL	Nt P-Sedq	SEDGE
CXSCAB	4	Carex scabrata	-5	OBL	Nt P-Sedq	SEDGE
CXSTIP	1	Carex stipata	-5	OBL	Nt P-Sedq	SEDGE
CXSTRI	4	Carex stricta	-5	OBL	Nt P-Sedq	SEDGE
CXTRIS	9	Carex trisperma	-5	OBL	Nt P-Sedq	SEDGE
CERFON	0	CERASTIUM FONTANUM	3	FACU	Ad P-Forb	MOUSE EAR CHICKWEED
CERDEM	1	Ceratophyllum demersum	-5	OBL	Nt P-Forb	COONTAIL
CHACAL	8	Chamaedaphne calyculata	-5	OBL	Nt Shrub	LEATHERLEAF
CHEGLB	7	Chelone glabra	-5	OBL	Nt P-Forb	TURTLEHEAD
CICBUL	5	Cicuta bulbifera	-5	OBL	Nt P-Forb	WATER HEMLOCK
CINLAT	5	Cinna latifolia	-4	FACW+	Nt P-Grass	WOOD REEDGRASS
CIRALP	4	Circaea alpina	-3	FACW	Nt P-Forb	SMALL ENCHANTER'S NIGHTSHADE
CIRMUT	6	Cirsium muticum	-5	OBL	Nt B-Forb	SWAMP THISTLE
CIRPAL	0	CIRSIIUM PALUSTRE	-4	FACW+	Ad B-Forb	MARSH THISTLE

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Floristic Quality Index

CIRVUL	0	CIRSIMUM VULGARE	4	FACU-	Ad B-Forb	BULL THISTLE
CLAMAR	10	Cladium mariscoides	-5	OBL	Nt P-Sedge	TWIG RUSH
CLEVIR	4	Clematis virginiana	0	FAC	Nt W-Vine	VIRGIN'S BOWER
CLIBOR	5	Clintonia borealis	-1	FAC+	Nt P-Forb	BLUEBEAD LILY; CORN LILY
COLCAN	8	Collinsia canadensis	0	FAC	Nt P-Forb	RICHWEED
COPTRI	5	Coptis trifolia	-3	FACW	Nt P-Forb	GOLDTHREAD
CORCAA	6	Cornus canadensis	0	FAC	Nt Shrub	BUNCHBERRY
CORSTO	2	Cornus stolonifera	-3	FACW	Nt Shrub	RED OSIER DOGWOOD
CUSGRO	3	Cuscuta gronovii	-3	FACW	Nt A-Forb	COMMON DODDER
CYCAPU	5	Cypripedium calceolus var. pubescens	-1	FAC+	Nt P-Forb	LARGE YELLOW LADY'S SLIPPER
CYPREG	9	Cypripedium reginae	-4	FACW+	Nt P-Forb	SHOWY or QUEEN'S LADY SLIPPER
CYSBUL	5	Cystopteris bulbifera	-2	FACW-	Nt Fern	BULBLET FERN
DECVER	7	Decodon verticillatus	-5	OBL	Nt Shrub	WHORLED or SWAMP LOOSESTRIFE
DIPTRI	7	Diphasiastrum tristrachyum	5	UPL	Nt Fern Ally	GROUND CEDAR
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
DRYINT	5	Dryopteris intermedia	0	FAC	Nt Fern	EVERGREEN WOODFERN
DRYMAR	5	Dryopteris marginalis	3	FACU	Nt Fern	MARGINAL WOODFERN
DULARU	8	Dulichium arundinaceum	-5	OBL	Nt P-Sedge	THREE WAY SEDGE
ELAUMB	0	ELAEAGNUS UMBELLATA	3	FACU	Ad Shrub	AUTUMN OLIVE
ELEELL	6	Eleocharis elliptica	-3	FACW	Nt P-Sedge	GOLDEN SEEDED SPIKE RUSH
ELEQUI	10	Eleocharis quinqueflora	-5	OBL	Nt P-Sedge	SPIKE RUSH
ELEROS	10	Eleocharis rostellata	-5	OBL	Nt P-Sedge	SPIKE RUSH
ELOCAN	1	Elodea canadensis	-5	OBL	Nt P-Forb	COMMON WATERWEED
EPIVIR	10	Epifagus virginiana	5	UPL	Nt P-Forb	BEECH DROPS
EPIREP	7	Epigaea repens	5	UPL	Nt Shrub	TRAILING ARBUTUS
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EPIHIR	0	EPILOBIUM HIRSUTUM	-4	FACW+	Ad P-Forb	GREAT HAIRY WILLOW HERB
EPILEP	6	Epilobium leptophyllum	-5	OBL	Nt P-Forb	FEN WILLOW HERB
EPIPAL	10	Epilobium palustre	-5	OBL	Nt P-Forb	MARSH WILLOW HERB
EPISTR	8	Epilobium strictum	-5	OBL	Nt P-Forb	DOWNY WILLOW HERB
EPIHEL	0	EPIACTIS 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
EQUVAR	8	Equisetum variegatum	-3	FACW	Nt Fern Ally	VARIEGATED SCOURING RUSH
ERIGRA	10	Eriophorum gracile	-5	OBL	Nt P-Sedge	SLENDER COTTON GRASS
ERISPI	10	Eriophorum spissum	-5	OBL	Nt P-Sedge	COTTON GRASS
ERIVID	8	Eriophorum viridi-carinatum	-5	OBL	Nt P-Sedge	GREEN KEELED COTTON GRASS
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 GOLDENROD
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
GALAPA	0	Galium aparine	3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GALLAB	8	Galium labradoricum	-5	OBL	Nt P-Forb	BOG BEDSTRAW
GALPAL	3	Galium palustre	-5	OBL	Nt P-Forb	MARSH BEDSTRAW
GALTRD	6	Galium trifidum	-4	FACW+	Nt P-Forb	SMALL BEDSTRAW
GAUHIS	8	Gaultheria hispida	-3	FACW	Nt Shrub	CREEPING SNOWBERRY
GAUPRO	5	Gaultheria procumbens	3	FACU	Nt Shrub	WINTERGREEN
GAYBAC	7	Gaylussacia baccata	3	FACU	Nt Shrub	HUCKLEBERRY
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
HAMVIR	5	Hamamelis virginiana	3	FACU	Nt Shrub	WITCH HAZEL
HIEAUR	0	HIERACIUM AURANTIACUM	5	UPL	Ad P-Forb	ORANGE HAWKWEED
HIPVUL	10	Hippuris vulgaris	-5	OBL	Nt P-Forb	MARE'S TAIL
HYDAME	6	Hydrocotyle americana	-5	OBL	Nt P-Forb	WATER PENNYWORT
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
JUNART	3	Juncus articulatus	-5	OBL	Nt P-Forb	JOINTED RUSH
JUNBRE	8	Juncus brevicaudatus	-5	OBL	Nt P-Forb	RUSH
JUNEFF	3	Juncus effusus	-5	OBL	Nt P-Forb	SOFT STEMMED RUSH
JUNNOD	5	Juncus nodosus	-5	OBL	Nt P-Forb	JOINT RUSH
JUNTEN	1	Juncus tenuis	0	FAC	Nt P-Forb	PATH RUSH
KALPOL	10	Kalmia polifolia	-5	OBL	Nt Shrub	SWAMP LAUREL
LACHIR	7	Lactuca hirsuta	5	UPL	Nt B-Forb	HAIRY TALL LETTUCE
LARLAR	5	Larix laricina	-3	FACW	Nt Tree	TAMARACK
LATPAL	7	Lathyrus palustris	-3	FACW	Nt P-Forb	MARSH PEA
LEDGRO	8	Ledum groenlandicum	-5	OBL	Nt Shrub	LABRADOR TEA
LEEORY	3	Leersia oryzoides	-5	OBL	Nt P-Grass	CUT GRASS
LEMMIN	5	Lemna minor	-5	OBL	Nt A-Forb	SMALL DUCKWEED
LILPHI	10	Lilium philadelphicum	1	FAC-	Nt P-Forb	WOOD LILY
LINBEN	7	Lindera benzoin	-2	FACW-	Nt Shrub	SPICEBUSH
LINBOR	6	Linnaea borealis	0	FAC	Nt P-Forb	TWINFLOWER
LIPLOE	5	Liparis loeselii	-4	FACW+	Nt P-Forb	LOESEL'S TWAYBLADE
LISCON	10	Listera convallarioides	-3	FACW	Nt P-Forb	BROAD LEAVED TWAYBLADE
LISCOR	10	Listera cordata	-3	FACW	Nt P-Forb	HEART LEAVED TWAYBLADE
LOBKAL	10	Lobelia kalmii	-5	OBL	Nt P-Forb	BOG LOBELIA
LOBSIP	4	Lobelia siphilitica	-4	FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LYCCLA	4	Lycopodium clavatum	0	FAC	Nt Fern Ally	RUNNING GROUND PINE
LYCOBS	5	Lycopodium obscurum	3	FACU	Nt Fern Ally	GROUND PINE
LYCAME	2	Lycopus americanus	-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
LYCUNI	2	Lycopus uniflorus	-5	OBL	Nt P-Forb	NORTHERN BUGLE WEED
LYSTHY	6	Lysimachia thyrsiflora	-5	OBL	Nt P-Forb	TUFTED LOOSESTRIFE
MAICAC	4	Maianthemum canadense	0	FAC	Nt P-Forb	CANADA MAYFLOWER
MEDVIR	10	Medeola virginiana	5	UPL	Nt P-Forb	INDIAN CUCUMBER ROOT
MEGBEC	10	Megalodonta beckii	-5	OBL	Nt P-Forb	WATER MARIGOLD

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Floristic Quality Index

MENARV	3	Mentha arvensis	-3	FACW	Nt P-Forb	WILD MINT
MENPIP	0	MENTHA PIPERITA	-5	OBL	Ad P-Forb	PEPPERMINT
MENTRI	8	Menyanthes trifoliata	-5	OBL	Nt P-Forb	BUCKBEAN
MITREP	5	Mitchella repens	2	FACU+	Nt P-Forb	PARTRIDGE BERRY
MITNUD	8	Mitella nuda	-3	FACW	Nt P-Forb	NAKED MITERWORT
MOEUN	8	Moneses uniflora	0	FAC	Nt P-Forb	ONE FLOWERED PYROLA
MONHYP	6	Monotropa hypopithys	5	UPL	Nt P-Forb	PINESAP
MONOUN	5	Monotropa uniflora	3	FACU	Nt P-Forb	INDIAN PIPE
MUHGL0	10	Muhlenbergia glomerata	-4	FACW+	Nt P-Grass	MARSH WILD TIMOTHY
MYRGAL	6	Myrica gale	-5	OBL	Nt Shrub	SWEET GALE
MYREXA	10	Myriophyllum exalbescens	-5	OBL	Nt P-Forb	SPIKED WATER MILFOIL
MYRVER	6	Myriophyllum verticillatum	-5	OBL	Nt P-Forb	WATER MILFOIL
NAJFLE	5	Najas flexilis	-5	OBL	Nt A-Forb	SLENDER NAIAD
NAJMAR	0	NAJAS MARINA	-5	OBL	Ad A-Forb	SPINY NAIAD
NASOFF	0	NASTURTIUM OFFICINALE	-5	OBL	Ad P-Grass	WATERCRESS
NUPVAR	7	Nuphar variegata	-5	OBL	Nt P-Forb	YELLOW POND LILY
NYMODO	6	Nymphaea odorata	-5	OBL	Nt P-Forb	SWEET SCENTED WATERLILY
ONOUSEN	2	Onoclea sensibilis	-3	FACW	Nt Fern	SENSITIVE FERN
ORYRAC	8	Oryzopsis racemosa	5	UPL	Nt P-Grass	RICE GRASS
OSMLON	3	Osmorhiza longistylis	4	FACU-	Nt P-Forb	SMOOTH SWEET CICELY
OSMCIN	5	Osmunda cinnamomea	-3	FACW	Nt Fern	CINNAMON FERN
OSMREG	5	Osmunda regalis	-5	OBL	Nt Fern	ROYAL FERN
PANIMP	3	Panicum implicatum	0	FAC	Nt P-Grass	PANIC GRASS
PARGLA	8	Parnassia glauca	-5	OBL	Nt P-Forb	GRASS OF PARNASSUS
PARQUI	5	Parthenocissus quinquefolia	1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PELVIR	6	Peltandra virginica	-5	OBL	Nt P-Forb	ARROW ARUM
PHAAARU	0	Phalaris arundinacea	-4	FACW+	Nt P-Grass	REED CANARY GRASS
PHRAUS	0	Phragmites australis	-4	FACW+	Nt P-Grass	REED
PICMAR	6	Picea mariana	-3	FACW	Nt Tree	BLACK SPRUCE
PINSTR	3	Pinus strobus	3	FACU	Nt Tree	WHITE PINE
PLAHYP	5	Platanthera hyperborea	-4	FACW+	Nt P-Forb	TALL NORTHERN BOG ORCHID
PLALAC	6	Platanthera lacera	-3	FACW	Nt P-Forb	GREEN FRINGED ORCHID
PLAPSY	7	Platanthera psycodes	-3	FACW	Nt P-Forb	SMALL PURPLE FRINGED ORCHID
POACOM	0	POA COMPRESSA	2	FACU+	Ad P-Grass	CANADA BLUEGRASS
POAPAS	3	Poa palustris	-4	FACW+	Nt P-Grass	FOWL MEADOW GRASS
POGOPH	10	Pogonia ophioglossoides	-5	OBL	Nt P-Forb	ROSE POGONIA
POLPAU	7	Polygala paucifolia	3	FACU	Nt P-Forb	GAY WINGS
POLPUN	5	Polygonum punctatum	-5	OBL	Nt A-Forb	SMARTWEED
POPGRA	4	Populus grandidentata	3	FACU	Nt Tree	BIG TOOTHED ASPEN
POTALP	10	Potamogeton alpinus	-5	OBL	Nt P-Forb	PONDWEED
POTAMP	6	Potamogeton amplifolius	-5	OBL	Nt P-Forb	LARGE LEAVED PONDWEED
POTNAT	5	Potamogeton natans	-5	OBL	Nt P-Forb	PONDWEED
POTOBT	10	Potamogeton obtusifolius	-5	OBL	Nt P-Forb	PONDWEED
POTPEC	3	Potamogeton pectinatus	-5	OBL	Nt P-Forb	SAGO PONDWEED
POTPRA	8	Potamogeton praelongus	-5	OBL	Nt P-Forb	WHITE STEMMED PONDWEED
POTPUS	4	Potamogeton pusillus	-5	OBL	Nt P-Forb	SMALL PONDWEED
POTRIC	5	Potamogeton richardsonii	-5	OBL	Nt P-Forb	RICHARDSON'S PONDWEED
POTVAG	10	Potamogeton vaginatus	-5	OBL	Nt P-Forb	PONDWEED
POTZOS	5	Potamogeton zosteriformis	-5	OBL	Nt P-Forb	FLAT STEMMED PONDWEED
POTARU	8	Potentilla arguta	4	FACU-	Nt P-Forb	TALL or PRAIRIE CINQUEFOIL
POTFRU	10	Potentilla fruticosa	-3	FACW	Nt Shrub	SHRUBBY CINQUEFOIL
POTPAL	7	Potentilla palustris	-5	OBL	Nt P-Forb	MARSH CINQUEFOIL
PRUVUL	0	PRUNELLA VULGARIS	0	FAC	Nt P-Forb	LAWN PRUNELLA
PTEAQU	0	Pteridium aquilinum	3	FACU	Nt Fern	BRACKEN FERN
PYRASA	8	Pyrola asarifolia	-3	FACW	Nt P-Forb	PINK PYROLA
PYRELL	6	Pyrola elliptica	5	UPL	Nt P-Forb	LARGE LEAVED SHINLEAF
RANACR	0	RANUNCULUS ACRIS	-2	FACW-	Ad P-Forb	TALL or COMMON BUTTERCUP
RANLON	4	Ranunculus longirostris	-5	OBL	Nt P-Forb	WHITE WATER CROWFOOT
RANREC	5	Ranunculus recurvatus	-3	FACW	Nt A-Forb	HOOKEED CROWFOOT
RHAALN	8	Rhamnus alnifolia	-5	OBL	Nt Shrub	ALDER LEAVED BUCKTHORN
RHYALB	6	Rhynchospora alba	-5	OBL	Nt P-Sedge	BEAK RUSH
RIBTRI	6	Ribes triste	-5	OBL	Nt Shrub	SWAMP RED CURRANT
ROSBLA	3	Rosa blanda	3	FACU	Nt Shrub	WILD ROSE
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
RUBPUB	4	Rubus pubescens	-4	FACW+	Nt P-Forb	DWARF RASPBERRY
RUBSTR	2	Rubus strigosus	-2	FACW-	Nt Shrub	WILD RED RASPBERRY
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
RUMORB	9	Rumex orbiculatus	-5	OBL	Nt P-Forb	GREAT WATER DOCK
SAGLAT	1	Sagittaria latifolia	-5	OBL	Nt P-Forb	COMMON ARROWHEAD
SALBEB	1	Salix bebbiana	-4	FACW+	Nt Shrub	BEBB'S WILLOW
SALCAN	9	Salix candida	-5	OBL	Nt Shrub	HOARY WILLOW
SALDIS	1	Salix discolor	-3	FACW	Nt Shrub	PUSSY WILLOW
SANCAS	8	Sanicula canadensis	2	FACU+	Nt B-Forb	BLACK SNAKEROOT
SARPUP	10	Sarracenia purpurea	-5	OBL	Nt P-Forb	PITCHER PLANT
SCHACU	5	Schoenoplectus acutus	-5	OBL	Nt P-Sedge	HARDSTEM BULRUSH
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
SENPAU	3	Senecio pauperculus	-1	FAC+	Nt P-Forb	BALSAM RAGWORT
SMISTE	5	Smilacina stellata	1	FAC-	Nt P-Forb	STARRY FALSE SOLOMON SEAL
SMITAM	5	Smilax tamnoides	0	FAC	Nt W-Vine	BRISTLY GREEN BRIER
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad P-Forb	BITTERSWEET NIGHTSHADE
SOLRUG	3	Solidago rugosa	-1	FAC+	Nt P-Forb	ROUGH GOLDENROD
SOLULI	4	Solidago uliginosa	-5	OBL	Nt P-Forb	BOG GOLDENROD
SPACHL	6	Sparganium chlorocarpum	-5	OBL	Nt P-Forb	GREEN FRUITED BUR REED
SPICER	4	Spiranthes cernua	-2	FACW-	Nt P-Forb	NODDING LADIES' TRESSES
STRAMP	8	Streptopus amplexifolius	-1	FAC+	Nt P-Forb	TWISTED STALK
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION

Cedar River Preserve- All
Floristic Quality Index

THADAS	3	Thalictrum dasycarpum	-2	FACW-	Nt P-Forb	PURPLE MEADOW RUE
THENOV	5	Thelypteris noveboracensis	-1	FAC+	Nt Fern	NEW YORK FERN
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
TOXRYD	3	Toxicodendron rydbergii	0	FAC	Nt W-Vine	POISON IVY
TOXVER	6	Toxicodendron vernix	-5	OBL	Nt Shrub	POISON SUMAC
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
TRIMAR	8	Triglochin maritimum	-5	OBL	Nt P-Forb	COMMON BOG ARROW GRASS
TRIPAL	8	Triglochin palustris	-5	OBL	Nt P-Forb	SLENDER BOG ARROW GRASS
TSUCAN	5	Tsuga canadensis	3	FACU	Nt Tree	HEMLOCK
TYPANG	0	TYPHA ANGUSTIFOLIA	-5	OBL	Ad P-Forb	NARROW LEAVED CATTAIL
TYPLAT	1	Typha latifolia	-5	OBL	Nt P-Forb	BROAD LEAVED CATTAIL
ULMAME	1	Ulmus americana	-2	FACW-	Nt Tree	AMERICAN ELM
UTRGIB	8	Utricularia gibba	-5	OBL	Nt P-Forb	HUMPED BLADDERWORT
UTRINT	10	Utricularia intermedia	-5	OBL	Nt P-Forb	FLAT LEAVED BLADDERWORT
UTRVUL	6	Utricularia vulgaris	-5	OBL	Nt P-Forb	GREAT BLADDERWORT
VACMYR	4	Vaccinium myrtilloides	-2	FACW-	Nt Shrub	CANADA BLUEBERRY
VACOXY	8	Vaccinium oxycoccos	-5	OBL	Nt Shrub	SMALL CRANBERRY
VALAME	7	Vallisneria americana	-5	OBL	Nt P-Forb	EEL GRASS
VERBEA	10	Veronica beccabunga var. americana	-5	OBL	Nt P-Forb	AMERICAN BROOKLIME
VIOCON	3	Viola conspersa	-2	FACW-	Nt P-Forb	DOG VIOLET
VIOUCUC	5	Viola cucullata	-5	OBL	Nt P-Forb	MARSH VIOLET
VIOMAC	6	Viola macloskeyi	-5	OBL	Nt P-Forb	SMOOTH WHITE VIOLET
VITRIP	3	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE
ZIZAQU	9	Zizania aquatica var. aquatica	-5	OBL	Nt A-Grass	WILD RICE