



Jeff Lamont Preserve

Floristic Quality Assessment Results

A Floristic Quality Assessment of Jeff Lamont Preserve was conducted by Greg LaCross 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 Jeff Lamont Preserve the total number of species and native species are:

Native Species	Total Species
98	108

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 Jeff Lamont Preserve the mean C-values are:

Native Mean C	Mean C w/ Adventives
4.3	3.9

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 Jeff Lamont Preserve the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
-0.3	-0.1

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 Jeff Lamont Preserve the FQI's are:

Native FQI	FQI w/ Adventives
42.8	40.8

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.



Jeff Lamont Preserve

High Quality Plant Species

This list represents the most ecologically significant and high quality plants found at the Jeff Lamont Preserve during a 2010 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>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>Myosotis laxa</i>	SMALL FORGET ME NOT
6	<i>Osmunda claytoniana</i>	INTERRUPTED FERN
6	<i>Pinus resinosa</i>	RED PINE
6	<i>Quercus velutina</i>	BLACK OAK
6	<i>Viola rostrata</i>	LONG SPURRED VIOLET
7	<i>Actaea pachypoda</i>	DOLL'S EYES
7	<i>Betula alleghaniensis</i>	YELLOW BIRCH
7	<i>Carex eburnea</i>	SEDGE
7	<i>Equisetum fluviatile</i>	WATER HORSETAIL
8	<i>Aralia racemosa</i>	SPIKENARD
8	<i>Blephilia hirsuta</i>	WOOD MINT
8	<i>Calamagrostis inexpansa</i>	BOG REEDGRASS
8	<i>Hepatica acutiloba</i>	SHARP LOBED HEPATICA
8	<i>Schoenoplectus smithii</i>	BULRUSH
9	<i>Poa alsodes</i>	BLUEGRASS
10	<i>Carex tenuiflora</i>	SEDGE
10	<i>Equisetum pratense</i>	MEADOW HORSETAIL

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: Lamott Preserve
 Locale: Leelanau Twp
 By: Leelanau Conservancy-Greg LaCross
 File: c:\DOCUME~1\Glacross\Desktop\FQA\studies\Lamott_inventory.inv

Site: Lamott Preserve
 Locale: Leelanau Twp
 By: Leelanau Conservancy-Greg LaCross
 File: c:\DOCUME~1\Glacross\Desktop\FQA\studies\Lamott_inventory.inv

FLORISTIC QUALITY DATA		Native		Adventive	
98 NATIVE SPECIES		Tree	25 23.10%	Tree	0 0.00%
108 Total Species		Shrub	10 9.30%	Shrub	0 0.00%
4.3 NATIVE MEAN C		W-Vine	3 2.80%	W-Vine	0 0.00%
3.9 W/Adventives		H-Vine	0 0.00%	H-Vine	0 0.00%
42.8 NATIVE FQI		P-Forb	32 29.60%	P-Forb	6 5.60%
40.8 W/Adventives		B-Forb	0 0.00%	B-Forb	1 0.90%
-0.3 NATIVE MEAN W		A-Forb	3 2.80%	A-Forb	1 0.90%
-0.1 W/Adventives		P-Grass	5 4.60%	P-Grass	2 1.90%
AVG: Faculative		A-Grass	0 0.00%	A-Grass	0 0.00%
		P-Sedge	9 8.30%	P-Sedge	0 0.00%
		A-Sedge	1 0.90%	A-Sedge	0 0.00%
		Fern	10 9.30%		

ACRONYM C	SCIENTIFIC NAME	W	WETNESS PHYSIOG	COMMON NAME
ABIBAL	3 Abies balsamea	-3 FACW	Nt Tree	BALSAM FIR
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
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
ACTPAC	7 Actaea pachypoda	5 UPL	Nt P-Forb	DOLL'S EYES
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
AQUCAN	5 Aquilegia canadensis	1 FAC-	Nt P-Forb	WILD COLUMBINE

ARARAC	8 <i>Aralia racemosa</i>	5 UPL	Nt P-Forb	SPIKENARD
ARITRI	5 <i>Arisaema triphyllum</i>	-2 FACW-	Nt P-Forb	JACK IN THE PULPIT
ATHFIL	4 <i>Athyrium filix-femina</i>	0 FAC	Nt Fern	LADY FERN
BARVUL	0 <i>BARBAREA VULGARIS</i>	0 FAC	Ad B-Forb	YELLOW ROCKET
BETALL	7 <i>Betula alleghaniensis</i>	0 FAC	Nt Tree	YELLOW BIRCH
BETPAP	2 <i>Betula papyrifera</i>	2 FACU+	Nt Tree	PAPER BIRCH
BLEHIR	8 <i>Blephilia hirsuta</i>	4 FACU-	Nt P-Forb	WOOD MINT
CALCAN	3 <i>Calamagrostis canadensis</i>	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CALINE	8 <i>Calamagrostis inexpansa</i>	-4 FACW+	Nt P-Grass	BOG REEDGRASS
CALTPA	6 <i>Caltha palustris</i>	-5 OBL	Nt P-Forb	MARSH MARIGOLD
CXBEBB	4 <i>Carex bebbii</i>	-5 OBL	Nt P-Sedg	SEDGE
CXEBUR	7 <i>Carex eburnea</i>	4 FACU-	Nt P-Sedg	SEDGE
CXHYST	2 <i>Carex hystericina</i>	-5 OBL	Nt P-Sedg	SEDGE
CXLEPO	3 <i>Carex leptoneura</i>	0 FAC	Nt P-Sedg	SEDGE
CXLUCO	4 <i>Carex lucorum</i>	5 UPL	Nt P-Sedg	SEDGE
CXRETS	3 <i>Carex retrorsa</i>	-5 OBL	Nt P-Sedg	SEDGE
CXSCAB	4 <i>Carex scabrata</i>	-5 OBL	Nt P-Sedg	SEDGE
CXSTIP	1 <i>Carex stipata</i>	-5 OBL	Nt P-Sedg	SEDGE
CXTENU	10 <i>Carex tenuiflora</i>	-5 OBL	Nt P-Sedg	SEDGE
CAUTHA	5 <i>Caulophyllum thalictroides</i>	5 UPL	Nt P-Forb	BLUE COHOSH
CLAVIR	4 <i>Claytonia virginica</i>	3 FACU	Nt P-Forb	SPRING BEAUTY
CLIBOR	5 <i>Clintonia borealis</i>	-1 FAC+	Nt P-Forb	BLUEBEAD LILY; CORN LILY
CORALT	5 <i>Cornus alternifolia</i>	5 UPL	Nt Tree	ALTERNATE LEAVED 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
CYPACA	5 <i>Cypripedium acaule</i>	-3 FACW	Nt P-Forb	PINK LADY'S SLIPPER; MOCCASIN FLOWER
DACGLO	0 <i>DACTYLIS GLOMERATA</i>	3 FACU	Ad P-Grass	ORCHARD GRASS
DENDIP	5 <i>Dentaria diphylla</i>	5 UPL	Nt P-Forb	TWO LEAVED TOOTHWORT
EQUARV	0 <i>Equisetum arvense</i>	0 FAC	Nt Fern	COMMON HORSETAIL
EQUFLU	7 <i>Equisetum fluviatile</i>	-5 OBL	Nt Fern	WATER HORSETAIL
EQUFRA	10 <i>Equisetum pratense</i>	-3 FACW	Nt Fern	MEADOW HORSETAIL
ERYAME	5 <i>Erythronium americanum</i>	5 UPL	Nt P-Forb	YELLOW TROUT LILY
EUPPER	4 <i>Eupatorium perfoliatum</i>	-4 FACW+	Nt P-Forb	COMMON BONESET
FAGGRA	6 <i>Fagus grandifolia</i>	3 FACU	Nt Tree	AMERICAN BEECH
FRAAME	5 <i>Fraxinus americana</i>	3 FACU	Nt Tree	WHITE ASH
FRANIG	6 <i>Fraxinus nigra</i>	-4 FACW+	Nt Tree	BLACK ASH
GALASP	5 <i>Galium asprellum</i>	-5 OBL	Nt P-Forb	ROUGH BEDSTRAW

GALTRR	4 Galium triflorum	2 FACU+	Nt P-Forb	FRAGRANT BEDSTRAW
GERROB	3 Geranium robertianum	5 UPL	Nt A-Forb	HERB ROBERT
GLYSTR	4 Glyceria striata	-5 OBL	Nt P-Grass	FOWL MANNA GRASS
GYMDRY	5 Gymnocarpium dryopteris	0 FAC	Nt Fern	OAK FERN
HEPACU	8 Hepatica acutiloba	5 UPL	Nt P-Forb	SHARP LOBED HEPATICA
HIEAUR	0 HIERACIUM AURANTIACUM	5 UPL	Ad P-Forb	ORANGE HAWKWEED
IMPCAP	2 Impatiens capensis	-3 FACW	Nt A-Forb	SPOTTED TOUCH ME NOT
LAPCOM	0 LAPSANA COMMUNIS	5 UPL	Ad A-Forb	NIPPLEWORT
LONCAN	5 Lonicera canadensis	3 FACU	Nt Shrub	AMERICAN FLY HONEYSUCKLE
MAICAC	4 Maianthemum canadense	0 FAC	Nt P-Forb	CANADA MAYFLOWER
MARVUL	0 MARRUBIUM VULGARE	0 FAC	Ad P-Forb	HOREHOUND
MATSTR	3 Matteuccia struthiopteris	-3 FACW	Nt Fern	OSTRICH FERN
MYOLAX	6 Myosotis laxa	-5 OBL	Nt P-Forb	SMALL FORGET ME NOT
NASOFF	0 NASTURTIUM OFFICINALE	-5 OBL	Ad P-Grass	WATERCRESS
ONOSEN	2 Onoclea sensibilis	-3 FACW	Nt Fern	SENSITIVE FERN
OSMCLI	4 Osmorhiza claytonii	4 FACU-	Nt P-Forb	HAIRY SWEET CICELY
OSMCLN	6 Osmunda claytoniana	-1 FAC+	Nt Fern	INTERRUPTED FERN
OSMREG	5 Osmunda regalis	-5 OBL	Nt Fern	ROYAL FERN
OSTVIR	5 Ostrya virginiana	4 FACU-	Nt Tree	IRONWOOD; HOP HORNBEAM
PARQUI	5 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PHAARU	0 Phalaris arundinacea	-4 FACW+	Nt P-Grass	REED CANARY GRASS
PINRES	6 Pinus resinosa	3 FACU	Nt Tree	RED PINE
PINSTR	3 Pinus strobus	3 FACU	Nt Tree	WHITE PINE
POAALS	9 Poa alsodes	-2 FACW-	Nt P-Grass	BLUEGRASS
POLBIB	4 Polygonatum biflorum	3 FACU	Nt P-Forb	SOLOMON SEAL
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
PRUSER	2 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
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
RANREC	5 Ranunculus recurvatus	-3 FACW	Nt A-Forb	HOOKED CROWFOOT
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 <i>Rubus hispidus</i>	-3 FACW	Nt Shrub	SWAMP DEWBERRY
RUBPUB	4 <i>Rubus pubescens</i>	-4 FACW+	Nt P-Forb	DWARF RASPBERRY
RUBSTR	2 <i>Rubus strigosus</i>	-2 FACW-	Nt Shrub	WILD RED RASPBERRY
SALEXI	1 <i>Salix exigua</i>	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCHSMI	8 <i>Schoenoplectus smithii</i>	-5 OBL	Nt A-Sedge	BULRUSH
SILVUL	0 <i>SILENE VULGARIS</i>	5 UPL	Ad P-Forb	BLADDER CAMPION
SMIRAC	5 <i>Smilacina racemosa</i>	3 FACU	Nt P-Forb	FALSE SPIKENARD
TAROFF	0 <i>TARAXACUM OFFICINALE</i>	3 FACU	Ad P-Forb	COMMON DANDELION
THEPAL	2 <i>Thelypteris palustris</i>	-4 FACW+	Nt Fern	MARSH FERN
THUOCC	4 <i>Thuja occidentalis</i>	-3 FACW	Nt Tree	ARBOR VITAE
TILAME	5 <i>Tilia americana</i>	3 FACU	Nt Tree	BASSWOOD
TOXRAR	2 <i>Toxicodendron radicans</i>	-1 FAC+	Nt W-Vine	POISON IVY
TRIBOR	5 <i>Trientalis borealis</i>	-1 FAC+	Nt P-Forb	STARFLOWER
TSUCAN	5 <i>Tsuga canadensis</i>	3 FACU	Nt Tree	HEMLOCK
TYPLAT	1 <i>Typha latifolia</i>	-5 OBL	Nt P-Forb	BROAD LEAVED CATTAIL
ULMAME	1 <i>Ulmus americana</i>	-2 FACW-	Nt Tree	AMERICAN ELM
URTDIO	1 <i>Urtica dioica</i>	-1 FAC+	Nt P-Forb	NETTLE
VEROFF	0 <i>VERONICA OFFICINALIS</i>	5 UPL	Ad P-Forb	COMMON SPEEDWELL
VIOCAN	5 <i>Viola canadensis</i>	5 UPL	Nt P-Forb	CANADA VIOLET
VIOCON	3 <i>Viola conspersa</i>	-2 FACW-	Nt P-Forb	DOG VIOLET
VIOCUC	5 <i>Viola cucullata</i>	-5 OBL	Nt P-Forb	MARSH VIOLET
VIOPUB	4 <i>Viola pubescens</i>	4 FACU-	Nt P-Forb	YELLOW VIOLET
VIOROS	6 <i>Viola rostrata</i>	3 FACU	Nt P-Forb	LONG SPURRED VIOLET
VITRIP	3 <i>Vitis riparia</i>	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE