



Mebert Creek Preserve

Floristic Quality Assessment Results

A Floristic Quality Assessment of Mebert Creek Preserve was conducted by Liana May during the summer of 2016.

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 Mebert Creek Preserve the total number of species and native species are:

Native Species	Total Species
188	234

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 10 is assigned to invasive species, also called adventives. At Mebert Creek Preserve the mean C-values are:

Native Mean C	Mean C w/ Adventives
4.2	3.4

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 Mebert Creek Preserve the mean coefficients of wetness are:

Native Mean W	Mean W w/ Adventives
-1.6	-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 Mebert Creek Preserve the FQI's are:

Native FQI	FQI w/ Adventives
57.6	37.6

May, L 2016. Floristic Quality Assessment and Habitat Mapping of Mebert 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.

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10/17/16

Mebert Creek Wetlands

Lake Leelanau

Leelanau

MI

USA

FQA DB Region:

Michigan

FQA DB Publication Year:

2014

FQA DB Description:

Reznicek, A.A., M.R. Penskar, B.S. Walters, and B.S. Slaughter. 2014. Michigan Floristic Quality Assessment Database. Herbarium, University of Michigan, Ann Arbor, MI and Michigan Natural Features Inventory, Michigan State University, Lansing, MI. <http://michiganflora.net>

Practitioner:

Liana May

Duration Notes:

Growing season 2016

Mixed hardwood-conifer swamp, with areas of northern hardwood swamp dominated by paper birch, American basswood, and black ash, and areas of northern white-cedar and white spruce sub-boreal swamp, along Mebert Creek and associated headwaters. Reed canary-grass dominates open areas.

Community Type Notes:

Other Notes:

Species not included in FQA: *Thalictrum* spp., *Poa* spp., *Sparganium* spp.

Private/Public:

Public <http://www.inaturalist.org/projects/mebert-creek->

Conservatism-Based Metrics:

Total Mean C:	3.4
Native Mean C:	4.2
Total FQI:	52
Native FQI:	57.6
Adjusted FQI:	37.6
% C value 0:	22.2
% C value 1-3:	29.1
% C value 4-6:	37.2
% C value 7-10:	11.5
Native Tree Mean C:	3.5
Native Shrub Mean C:	4.3
Native Herbaceous Mean C:	4.3

Species Richness:

Total Species:	234	
Native Species:	188	80.30%
Non-native Species:	46	19.70%

Species Wetness:

Mean Wetness:	-0.9
Native Mean Wetness:	-1.6

Physiognomy Metrics:

Tree:	22	9.40%
Shrub:	31	13.20%
Vine:	5	2.10%
Forb:	120	51.30%
Grass:	17	7.30%
Sedge:	23	9.80%
Rush:	0	0%
Fern:	16	6.80%
Bryophyte:	0	0%

Duration Metrics:

Annual:	10	4.30%
Perennial:	215	91.90%
Biennial:	9	3.80%
Native Annual:	6	2.60%
Native Perennial:	181	77.40%
Native Biennial:	1	0.40%

Species:

Scientific Name	Family	Acronym	Native?	C	W	Physiognomy	Duration	Common Name
Viburnum opulus	Adoxaceae	VIBOPU	non-native	0	-3	shrub	perennial	european highbush-cranberry
Sagittaria latifolia	Alismataceae	SAGLAT	native	4	-5	forb	perennial	common arrowhead
Toxicodendron rydbergii; t. radicans	Anacardiaceae	TOXRYD	native	3	0	shrub	perennial	poison-ivy
Cicuta bulbifera	Apiaceae	CICBUL	native	5	-5	forb	perennial	water hemlock
Daucus carota	Apiaceae	DAUCAR	non-native	0	5	forb	biennial	queen-annes-lace
Sium suave	Apiaceae	SIUSUA	native	5	-5	forb	perennial	water-parsnip
Asclepias incarnata	Apocynaceae	ASCINC	native	6	-5	forb	perennial	swamp milkweed
Asclepias syriaca	Apocynaceae	ASCSYR	native	1	5	forb	perennial	common milkweed
Ilex verticillata	Aquifoliaceae	ILEVER	native	5	-3	shrub	perennial	michigan holly
Arisaema triphyllum	Araceae	ARITRI	native	5	0	forb	perennial	jack-in-the-pulpit
Aralia nudicaulis	Araliaceae	ARANUD	native	5	3	forb	perennial	wild sarsaparilla
Hydrocotyle americana	Araliaceae	HYDAME	native	6	-5	forb	perennial	water-pennywort
Achillea millefolium	Asteraceae	ACHMIL	native	1	3	forb	perennial	yarrow
Ambrosia artemisiifolia	Asteraceae	AMBART	native	0	3	forb	annual	common ragweed
Antennaria parlinii	Asteraceae	ANTPAL	native	2	5	forb	perennial	smooth pussytoes
Bidens frondosa	Asteraceae	BIDFRO	native	1	-3	forb	annual	common beggar-ticks
Centaurea stoebe; c. maculosa	Asteraceae	CENSTO	non-native	0	5	forb	biennial	spotted knapweed
Cichorium intybus	Asteraceae	CICINT	non-native	0	3	forb	perennial	chicory
Cirsium palustre	Asteraceae	CIRPAL	non-native	0	-3	forb	biennial	marsh thistle
Cirsium vulgare	Asteraceae	CIRVUL	non-native	0	3	forb	biennial	bull thistle
Erigeron strigosus	Asteraceae	ERISTR	native	4	3	forb	perennial	daisy fleabane
Eupatorium perfoliatum	Asteraceae	EUPPER	native	4	-3	forb	perennial	boneset

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<i>Euthamia graminifolia</i>	Asteraceae	EUTGRA	native	3	0	forb	perennial	grass-leaved goldenrod
<i>Eutrochium maculatum</i> ; eupatorium m.	Asteraceae	EUTMAC	native	4	-5	forb	perennial	joe-pye-weed
<i>Hieracium aurantiacum</i>	Asteraceae	HIEAUR	non-native	0	5	forb	perennial	orange hawkweed
<i>Hieracium piloselloides</i>	Asteraceae	HIEPIS	non-native	0	5	forb	perennial	king devil
<i>Solidago altissima</i>	Asteraceae	SOLALT	native	1	3	forb	perennial	tall goldenrod
<i>Solidago canadensis</i>	Asteraceae	SOLCAN	native	1	3	forb	perennial	canada goldenrod
<i>Solidago gigantea</i>	Asteraceae	SOLGIG	native	3	-3	forb	perennial	late goldenrod
<i>Solidago patula</i>	Asteraceae	SOLPAT	native	6	-5	forb	perennial	swamp goldenrod
<i>Solidago rugosa</i>	Asteraceae	SOLRUG	native	3	0	forb	perennial	rough-leaved goldenrod
<i>Symphotrichum lanceolatum</i> ; aster l.	Asteraceae	SYMLAN	native	2	-3	forb	perennial	panicled aster
<i>Symphotrichum lateriflorum</i> ; aster l.	Asteraceae	SYMLAT	native	2	0	forb	perennial	calico aster
<i>Symphotrichum puniceum</i> ; aster p.	Asteraceae	SYMPUN	native	5	-5	forb	perennial	swamp aster
<i>Taraxacum officinale</i>	Asteraceae	TAROFF	non-native	0	3	forb	perennial	common dandelion
<i>Athyrium filix-femina</i>	Athyriaceae	ATHFIL	native	4	0	fern	perennial	lady fern
<i>Impatiens capensis</i>	Balsaminaceae	IMPCAP	native	2	-3	forb	annual	spotted touch-me-not
<i>Alnus incana</i> ; a. rugosa	Betulaceae	ALNINC	native	5	-3	shrub	perennial	speckled alder
<i>Betula alleghaniensis</i>	Betulaceae	BETALL	native	7	0	tree	perennial	yellow birch
<i>Betula papyrifera</i>	Betulaceae	BETPAP	native	2	3	tree	perennial	paper birch
<i>Myosotis scorpioides</i>	Boraginaceae	MYOSCO	non-native	0	-5	forb	perennial	forget-me-not
<i>Arabidopsis thaliana</i>	Brassicaceae	ARATHA	non-native	0	5	forb	annual	mouse-ear cress
<i>Barbarea vulgaris</i>	Brassicaceae	BARVUL	non-native	0	0	forb	biennial	yellow rocket
<i>Berteroa incana</i>	Brassicaceae	BERINC	non-native	0	5	forb	annual	hoary alyssum
<i>Lepidium campestre</i>	Brassicaceae	LEPCAM	non-native	0	5	forb	biennial	field cress
<i>Nasturtium microphyllum</i> ; n. officinale	Brassicaceae	NASMIC	non-native	0	-5	forb	perennial	watercress
<i>Campanula aparinoides</i>	Campanulaceae	CAMAPA	native	7	-5	forb	perennial	marsh bellflower
<i>Lobelia cardinalis</i>	Campanulaceae	LOBCAR	native	7	-5	forb	perennial	cardinal-flower
<i>Lonicera canadensis</i>	Caprifoliaceae	LONCAN	native	5	3	shrub	perennial	canadian fly honeysuckle
<i>Lonicera dioica</i>	Caprifoliaceae	LONDIO	native	5	3	vine	perennial	red honeysuckle
<i>Cerastium fontanum</i>	Caryophyllaceae	CERFON	non-native	0	3	forb	perennial	mouse-ear chickweed
<i>Dianthus barbatus</i>	Caryophyllaceae	DIABAR	non-native	0	5	forb	perennial	sweet william
<i>Silene vulgaris</i>	Caryophyllaceae	SILVUL	non-native	0	5	forb	perennial	bladder campion
<i>Tradescantia ohiensis</i>	Commelinaceae	TRAOHI	native	5	3	forb	perennial	common spiderwort
<i>Maianthemum canadense</i>	Convallariaceae	MAICAN	native	4	3	forb	perennial	canada mayflower
<i>Maianthemum stellatum</i> ; smilacina s.	Convallariaceae	MAISTE	native	5	0	forb	perennial	starry false solomon-seal
<i>Maianthemum trifolium</i> ; smilacina t.	Convallariaceae	MAITRI	native	10	-5	forb	perennial	false mayflower
<i>Cornus amomum</i>	Cornaceae	CORAMO	native	2	-3	shrub	perennial	silky dogwood
<i>Cornus canadensis</i>	Cornaceae	CORCAA	native	6	0	shrub	perennial	bunchberry
<i>Cornus rugosa</i>	Cornaceae	CORRUG	native	6	5	shrub	perennial	round-leaved dogwood
<i>Cornus sericea</i> ; c. stolonifera	Cornaceae	CORSER	native	2	-3	shrub	perennial	red-osier
<i>Juniperus communis</i>	Cupressaceae	JUNCOI	native	4	3	shrub	perennial	common or ground juniper
<i>Juniperus virginiana</i>	Cupressaceae	JUNVIR	native	3	3	tree	perennial	red-cedar
<i>Thuja occidentalis</i>	Cupressaceae	THUOCC	native	4	-3	tree	perennial	arbor vitae
<i>Carex alata</i>	Cyperaceae	CXALAT	native	10	-5	sedge	perennial	winged sedge

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Carex bebbii	Cyperaceae	CXBEBB	native	4	-5	sedge	perennial	sedge
Carex cristatella	Cyperaceae	CXCRIS	native	3	-3	sedge	perennial	sedge
Carex disperma	Cyperaceae	CXDISP	native	10	-5	sedge	perennial	sedge
Carex flava	Cyperaceae	CXFLAV	native	4	-5	sedge	perennial	sedge
Carex gracillima	Cyperaceae	CXGRAA	native	4	3	sedge	perennial	sedge
Carex granularis	Cyperaceae	CXGRAN	native	2	-3	sedge	perennial	sedge
Carex hystericina	Cyperaceae	CXHYST	native	2	-5	sedge	perennial	sedge
Carex interior	Cyperaceae	CXINTE	native	3	-5	sedge	perennial	sedge
Carex intumescens	Cyperaceae	CXINTU	native	3	-3	sedge	perennial	sedge
Carex leptalea	Cyperaceae	CXLEPA	native	5	-5	sedge	perennial	sedge
Carex leptonevia	Cyperaceae	CXLEPO	native	3	0	sedge	perennial	sedge
Carex pedunculata	Cyperaceae	CXPEDU	native	5	3	sedge	perennial	sedge
Carex pseudo-cyperus	Cyperaceae	CXPSEU	native	5	-5	sedge	perennial	sedge
Carex rostrata	Cyperaceae	CXROST	native	10	-5	sedge	perennial	sedge
Carex schweinitzii	Cyperaceae	CXSCHW	native	10	-5	sedge	perennial	sedge
Carex stipata	Cyperaceae	CXSTIP	native	1	-5	sedge	perennial	sedge
Carex stricta	Cyperaceae	CXSTRI	native	4	-5	sedge	perennial	sedge
Carex vulpinoidea	Cyperaceae	CXVULP	native	1	-5	sedge	perennial	sedge
Eleocharis erythropoda	Cyperaceae	ELEERY	native	4	-5	sedge	perennial	spike-rush
Eriophorum viridi-carinatum	Cyperaceae	ERIVID	native	8	-5	sedge	perennial	green-keeled cotton-grass
Scirpus cyperinus	Cyperaceae	SCICYP	native	5	-5	sedge	perennial	wool-grass
Scirpus pedicellatus; s. cyperinus	Cyperaceae	SCIPED	native	5	-5	sedge	perennial	wool-grass
Cystopteris bulbifera	Cystopteridaceae	CYSBUL	native	5	-3	fern	perennial	bulblet fern
Gymnocarpium dryopteris	Cystopteridaceae	GYMDRY	native	5	3	fern	perennial	oak fern
Drosera rotundifolia	Droseraceae	DROROT	native	6	-5	forb	perennial	round-leaved sundew
Dryopteris carthusiana	Dryopteridaceae	DRYCAR	native	5	-3	fern	perennial	spinulose woodfern
Dryopteris clintoniana	Dryopteridaceae	DRYCLI	native	8	-3	fern	perennial	clintons woodfern
Dryopteris cristata	Dryopteridaceae	DRYCRI	native	6	-5	fern	perennial	crested shield fern
Elaeagnus umbellata	Elaeagnaceae	ELAUMB	non-native	0	3	shrub	perennial	autumn-olive
Equisetum arvense	Equisetaceae	EQUARV	native	0	0	fern	perennial	common horsetail
Equisetum fluviatile	Equisetaceae	EQUFLU	native	7	-5	fern	perennial	water horsetail
Equisetum palustre	Equisetaceae	EQUPAL	native	8	-3	fern	perennial	marsh horsetail
Equisetum scirpoides	Equisetaceae	EQUSCI	native	7	0	fern	perennial	dwarf scouring rush
Gaultheria hispidula	Ericaceae	GAUHIS	native	8	-3	shrub	perennial	creeping-snowberry
Gaultheria procumbens	Ericaceae	GAUPRO	native	5	3	shrub	perennial	wintergreen
Euphorbia maculata	Euphorbiaceae	EUPMAC	native	0	3	forb	annual	spotted spurge
Medicago lupulina	Fabaceae	MEDLUP	non-native	0	3	forb	annual	black medick
Melilotus albus	Fabaceae	MELALB	non-native	0	3	forb	biennial	white sweet-clover
Quercus rubra	Fagaceae	QUERUB	native	5	3	tree	perennial	red oak
Gentiana andrewsii	Gentianaceae	GENAND	native	5	-3	forb	perennial	bottle gentian
Ribes americanum	Grossulariaceae	RIBAME	native	6	-3	shrub	perennial	wild black currant
Ribes cynosbati	Grossulariaceae	RIBCYN	native	4	3	shrub	perennial	prickly or wild gooseberry
Ribes lacustre	Grossulariaceae	RIBLAC	native	6	-3	shrub	perennial	swamp black currant

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Ribes triste	Grossulariaceae	RIBTRI	native	6	-5	shrub	perennial	swamp red currant
Hypericum perforatum	Hypericaceae	HYPPER	non-native	0	5	forb	perennial	common st. johns-wort
Iris virginica	Iridaceae	IRIVIR	native	5	-5	forb	perennial	southern blue flag
Juncus brachycephalus	Juncaceae	JUNBRP	native	7	-5	forb	perennial	rush
Juncus dudleyi	Juncaceae	JUNDUD	native	1	-3	forb	perennial	dudleys rush
Juncus nodosus	Juncaceae	JUNNOD	native	5	-5	forb	perennial	joint rush
Juncus pylaei; j. effusus	Juncaceae	JUNPLA	native	3	-5	forb	perennial	pylaies soft rush
Clinopodium vulgare	Lamiaceae	CLIVUL	native	3	5	forb	perennial	wild-basil
Lycopus americanus	Lamiaceae	LYCAME	native	2	-5	forb	perennial	common water horehound
Lycopus uniflorus	Lamiaceae	LYCUNI	native	2	-5	forb	perennial	northern bugle weed
Mentha xpiperita	Lamiaceae	MENPIP	non-native	0	-5	forb	perennial	peppermint
Mentha canadensis; m. arvensis	Lamiaceae	MENCAS	native	3	-3	forb	perennial	wild mint
Prunella vulgaris	Lamiaceae	PRUVUL	native	0	0	forb	perennial	self-heal
Scutellaria galericulata	Lamiaceae	SCUGAL	native	5	-5	forb	perennial	marsh skullcap
Scutellaria lateriflora	Lamiaceae	SCULAT	native	5	-5	forb	perennial	mad-dog skullcap
Lindera benzoin	Lauraceae	LINBEN	native	7	-3	shrub	perennial	spicebush
Linnaea borealis	Linnaeaceae	LINBOR	native	6	0	forb	perennial	twinflower
Tilia americana	Malvaceae	TILAME	native	5	3	tree	perennial	basswood
Lysimachia thyrsoiflora	Myrsinaceae	LYSTHY	native	6	-5	forb	perennial	tufted loosestrife
Trientalis borealis	Myrsinaceae	TRIBOR	native	5	0	forb	perennial	star-flower
Fraxinus nigra	Oleaceae	FRANIG	native	6	-3	tree	perennial	black ash
Circaea canadensis; c. lutetiana	Onagraceae	CIRCAN	native	2	3	forb	perennial	enchanters-nightshade
Epilobium ciliatum	Onagraceae	EPICIL	native	3	-3	forb	perennial	willow-herb
Epilobium coloratum	Onagraceae	EPICOL	native	3	-5	forb	perennial	cinnamon willow-herb
Epilobium leptophyllum	Onagraceae	EPILEP	native	6	-5	forb	perennial	fen willow-herb
Epilobium parviflorum	Onagraceae	EPIPAR	non-native	0	-5	forb	perennial	willow-herb
Epilobium strictum	Onagraceae	EPISTR	native	8	-5	forb	perennial	downy willow-herb
Ludwigia palustris	Onagraceae	LUDPAL	native	4	-5	forb	perennial	water-purslane
Oenothera biennis	Onagraceae	OENBIE	native	2	3	forb	biennial	common evening-primrose
Matteuccia struthiopteris	Onocleaceae	MATSTR	native	3	0	fern	perennial	ostrich fern
Onoclea sensibilis	Onocleaceae	ONosen	native	2	-3	fern	perennial	sensitive fern
Cypripedium reginae	Orchidaceae	CYPREG	native	9	-3	forb	perennial	showy or queens lady-slipper
Epipactis helleborine	Orchidaceae	EPIHEL	non-native	0	0	forb	perennial	helleborine
Platanthera huronensis; habenaria hyperborea	Orchidaceae	PLAHUR	native	5	-3	forb	perennial	lake huron green orchid
Platanthera psycodes; habenaria p.	Orchidaceae	PLAPSY	native	7	-3	forb	perennial	purple fringed orchid
Osmunda cinnamomea	Osmundaceae	OSMCIN	native	5	-3	fern	perennial	cinnamon fern
Osmunda regalis	Osmundaceae	OSMREG	native	5	-5	fern	perennial	royal fern
Oxalis dillenii; o. stricta	Oxalidaceae	OXADIL	native	0	3	forb	perennial	common yellow wood-sorrel
Abies balsamea	Pinaceae	ABIBAL	native	3	0	tree	perennial	balsam fir
Larix laricina	Pinaceae	LARLAR	native	5	-3	tree	perennial	tamarack
Picea glauca	Pinaceae	PICGLA	native	3	3	tree	perennial	white spruce
Pinus strobus	Pinaceae	PINSTR	native	3	3	tree	perennial	white pine
Tsuga canadensis	Pinaceae	TSUCAN	native	5	3	tree	perennial	hemlock

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Chelone glabra	Plantaginaceae	CHEGLB	native	7	-5	forb	perennial	turtlehead
Plantago lanceolata	Plantaginaceae	PLALAN	non-native	0	3	forb	perennial	english plantain
Plantago major	Plantaginaceae	PLAMAJ	non-native	0	3	forb	perennial	common plantain
Veronica beccabunga var. americana	Plantaginaceae	VERBEA	native	10	-5	forb	perennial	american brooklime
Veronica serpyllifolia	Plantaginaceae	VERSER	non-native	0	0	forb	perennial	thyme-leaved speedwell
Agrostis gigantea	Poaceae	AGRGIG	non-native	0	-3	grass	perennial	redtop
Bromus inermis	Poaceae	BROINE	non-native	0	5	grass	perennial	smooth brome
Dactylis glomerata	Poaceae	DACGLO	non-native	0	3	grass	perennial	orchard grass
Dichanthelium implicatum; panicum i.	Poaceae	DICIMP	native	3	0	grass	perennial	panic grass
Elymus repens; agropyron r.	Poaceae	ELYREP	non-native	0	3	grass	perennial	quack grass
Festuca saximontana	Poaceae	FESSAX	native	6	5	grass	perennial	fescue
Glyceria striata	Poaceae	GLYSTR	native	4	-5	grass	perennial	fowl manna grass
Leersia oryzoides	Poaceae	LEEORY	native	3	-5	grass	perennial	cut grass
Muhlenbergia mexicana	Poaceae	MUHMEX	native	3	-3	grass	perennial	leafy satin grass
Phalaris arundinacea	Poaceae	PHAARU	native	0	-3	grass	perennial	reed canary grass
Phleum pratense	Poaceae	PHLPRA	non-native	0	3	grass	perennial	timothy
Poa compressa	Poaceae	POACOM	non-native	0	3	grass	perennial	canada bluegrass
Poa interior; p. glauca	Poaceae	POAINT	native	10	0	grass	perennial	bluegrass
Poa palustris	Poaceae	POAPAS	native	3	-3	grass	perennial	fowl meadow grass
Poa pratensis	Poaceae	POAPRA	non-native	0	3	grass	perennial	kentucky bluegrass
Schedonorus pratensis; festuca p.	Poaceae	SCHPRA	non-native	0	3	grass	perennial	meadow fescue
Sporobolus cryptandrus	Poaceae	SPOCRY	native	3	3	grass	perennial	sand dropseed
Persicaria maculosa; polygonum persicaria	Polygonaceae	PERMAC	non-native	0	0	forb	annual	lady's-thumb
Persicaria virginiana; polygonum v.	Polygonaceae	PERVIR	native	4	0	forb	perennial	jumpseed
Rumex crispus	Polygonaceae	RUMCRI	non-native	0	0	forb	perennial	curly dock
Rumex obtusifolius	Polygonaceae	RUMOBT	non-native	0	0	forb	perennial	bitter dock
Adiantum pedatum	Pteridaceae	ADIPED	native	6	3	fern	perennial	maidenhair fern
Anemone canadensis	Ranunculaceae	ANECAN	native	4	-3	forb	perennial	canada anemone
Anemone virginiana	Ranunculaceae	ANEVIR	native	3	3	forb	perennial	thimbleweed
Caltha palustris	Ranunculaceae	CALPAR	native	6	-5	forb	perennial	marsh-marigold
Clematis virginiana	Ranunculaceae	CLEVIR	native	4	0	vine	perennial	virgins bower
Coptis trifolia	Ranunculaceae	COPTRI	native	5	-3	forb	perennial	goldthread
Ranunculus acris	Ranunculaceae	RANACR	non-native	0	0	forb	perennial	tall or common buttercup
Ranunculus recurvatus	Ranunculaceae	RANREC	native	5	-3	forb	perennial	hooked crowfoot
Ranunculus sceleratus	Ranunculaceae	RANSCE	native	1	-5	forb	annual	cursed crowfoot
Frangula alnus; rhamnus frangula	Rhamnaceae	FRAALN	non-native	0	0	shrub	perennial	glossy buckthorn
Rhamnus alnifolia	Rhamnaceae	RHAALN	native	8	-5	shrub	perennial	alder-leaved buckthorn
Rhamnus cathartica	Rhamnaceae	RHACAT	non-native	0	0	tree	perennial	common buckthorn
Agrimonia gryposepala	Rosaceae	AGRGRY	native	2	3	forb	perennial	tall agrimony
Amelanchier arborea	Rosaceae	AMEARB	native	4	3	tree	perennial	juneberry
Amelanchier laevis	Rosaceae	AMELAE	native	4	5	tree	perennial	smooth shadbush
Fragaria virginiana	Rosaceae	FRAVIR	native	2	3	forb	perennial	wild strawberry
Geum aleppicum	Rosaceae	GEUALE	native	3	0	forb	perennial	yellow avens

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Geum canadense	Rosaceae	GEUCAN	native	1	0	forb	perennial	white avens
Geum rivale	Rosaceae	GEURIV	native	7	-5	forb	perennial	purple avens
Potentilla recta	Rosaceae	POTREC	non-native	0	5	forb	perennial	rough-fruited cinquefoil
Prunus serotina	Rosaceae	PRUSER	native	2	3	tree	perennial	wild black cherry
Rosa multiflora	Rosaceae	ROSMUL	non-native	0	3	shrub	perennial	multiflora rose
Rosa palustris	Rosaceae	ROSPAL	native	5	-5	shrub	perennial	swamp rose
Rubus allegheniensis	Rosaceae	RUBALL	native	1	3	shrub	perennial	common blackberry
Rubus occidentalis	Rosaceae	RUBOCC	native	1	5	shrub	perennial	black raspberry
Rubus pubescens	Rosaceae	RUBPUB	native	4	-3	shrub	perennial	dwarf raspberry
Rubus strigosus	Rosaceae	RUBSTR	native	2	0	shrub	perennial	wild red raspberry
Galium triflorum	Rubiaceae	GALTRR	native	4	3	forb	perennial	fragrant bedstraw
Mitchella repens	Rubiaceae	MITREP	native	5	3	forb	perennial	partridge-berry
Populus balsamifera	Salicaceae	POPBAL	native	2	-3	tree	perennial	balsam poplar
Populus tremuloides	Salicaceae	POPTRE	native	1	0	tree	perennial	quaking aspen
Salix amygdaloides	Salicaceae	SALAMY	native	3	-3	tree	perennial	peach-leaved willow
Salix bebbiana	Salicaceae	SALBEB	native	1	-3	shrub	perennial	bebbs willow
Salix discolor	Salicaceae	SALDIS	native	1	-3	shrub	perennial	pussy willow
Salix petiolaris	Salicaceae	SALPET	native	1	-3	shrub	perennial	slender willow
Salix serissima	Salicaceae	SALSES	native	8	-5	shrub	perennial	autumn willow
Acer rubrum	Sapindaceae	ACERUB	native	1	0	tree	perennial	red maple
Acer spicatum	Sapindaceae	ACESPI	native	5	3	tree	perennial	mountain maple
Chrysosplenium americanum	Saxifragaceae	CHROME	native	6	-5	forb	perennial	golden saxifrage
Mitella nuda	Saxifragaceae	MITNUD	native	8	-3	forb	perennial	naked miterwort
Verbascum thapsus	Scrophulariaceae	VERTHA	non-native	0	5	forb	biennial	common mullein
Solanum dulcamara	Solanaceae	SOLDUL	non-native	0	0	vine	perennial	bittersweet nightshade
Taxus canadensis	Taxaceae	TAXCAN	native	5	3	shrub	perennial	yew
Thelypteris palustris	Thelypteridaceae	THEPAL	native	2	-3	fern	perennial	marsh fern
Trillium cernuum	Trilliaceae	TRICER	native	5	0	forb	perennial	nodding trillium
Typha latifolia	Typhaceae	TYPLAT	native	1	-5	forb	perennial	broad-leaved cat-tail
Ulmus americana	Ulmaceae	ULMAME	native	1	-3	tree	perennial	american elm
Boehmeria cylindrica	Urticaceae	BOECYL	native	5	-5	forb	perennial	false nettle
Laportea canadensis	Urticaceae	LAPCAN	native	4	-3	forb	perennial	wood nettle
Pilea fontana	Urticaceae	PILFON	native	5	-3	forb	annual	bog clearweed
Verbena hastata	Verbenaceae	VERHAS	native	4	-3	forb	perennial	blue vervain
Viola affinis	Violaceae	VIOAFF	native	2	-3	forb	perennial	le contes violet
Viola cucullata	Violaceae	VIOCUC	native	5	-5	forb	perennial	marsh violet
Viola labradorica; v. conspersa	Violaceae	VIOLAB	native	3	0	forb	perennial	dog violet
Viola selkirkii	Violaceae	VIOSEL	native	7	5	forb	perennial	great-spurred violet
Parthenocissus quinquefolia	Vitaceae	PARQUI	native	5	3	vine	perennial	virginia creeper
Vitis riparia	Vitaceae	VITRIP	native	3	0	vine	perennial	river-bank grape