

Ravines at Stanaback Park
2021 Botanical Inventory Results
Calvin University Herbarium

Metrics of Natural Quality	
Total Mean C value	3.7
Native Mean C value	4.2
Total FQI	43.3
Native FQI	45.8
% C value 0	16.1
% C value 1-3	25.5
% C value 4-6	48.9
% C value 7-10	9.5

Species Wetness	
Mean Wetness	0.9
Native Mean Wetness	0.7

Duration Metrics		
Annual	8	5.80%
Perennial	124	90.50%
Biennial	5	3.60%
Native Annual	7	5.10%
Native Perennial	111	81%
Native Biennial	1	0.70%

Species Richness		
Total Species	137	
Native Species	119	86.90%
Non-native Spe	18	13.10%

Physiognomy Metrics		
Tree	20	14.60%
Shrub	13	9.50%
Vine	6	4.40%
Forb	54	39.40%
Grass	7	5.10%
Sedge	25	18.20%
Rush	4	2.90%
Fern	8	5.80%

Species List							
Scientific Name	Family	Native?	C value	Wetness	Physiognomy	Duration	Common Name
Acer nigrum	Sapindaceae	native	4	3	tree	perennial	black maple
Acer saccharum	Sapindaceae	native	5	3	tree	perennial	sugar maple
Actaea pachypoda	Ranunculaceae	native	7	5	forb	perennial	dolls-eyes
Adiantum pedatum	Pteridaceae	native	6	3	fern	perennial	maidenhair fern
Agrimonia gryposepala	Rosaceae	native	2	3	forb	perennial	tall agrimony

<i>Alliaria petiolata</i>	Brassicaceae	non-native	0	3	forb	biennial	garlic mustard
<i>Allium tricoccum</i>	Alliaceae	native	5	3	forb	perennial	wild leek
<i>Amelanchier laevis</i>	Rosaceae	native	4	5	tree	perennial	smooth shadbush
<i>Amphicarpaea bracteata</i>	Fabaceae	native	5	0	vine	annual	hog-peanut
<i>Arctium minus</i>	Asteraceae	non-native	0	3	forb	biennial	common burdock
<i>Arisaema triphyllum</i>	Araceae	native	5	0	forb	perennial	jack-in-the-pulpit
<i>Asclepias incarnata</i>	Apocynaceae	native	6	-5	forb	perennial	swamp milkweed
<i>Asimina triloba</i>	Annonaceae	native	9	0	tree	perennial	pawpaw
<i>Barbarea vulgaris</i>	Brassicaceae	non-native	0	0	forb	biennial	yellow rocket
<i>Berberis thunbergii</i>	Berberidaceae	non-native	0	3	shrub	perennial	japanese barberry
<i>Boehmeria cylindrica</i>	Urticaceae	native	5	-5	forb	perennial	false nettle
<i>Brachyelytrum erectum</i>	Poaceae	native	7	5	grass	perennial	long-awned wood grass
<i>Cardamine concatenata</i>	Brassicaceae	native	5	3	forb	perennial	cut-leaved toothwort
<i>Cardamine diphylla</i>	Brassicaceae	native	5	3	forb	perennial	two-leaved toothwort
<i>Cardamine impatiens</i>	Brassicaceae	non-native	0	3	forb	annual	bitter cress
<i>Carex albursina</i>	Cyperaceae	native	5	5	sedge	perennial	sedge
<i>Carex blanda</i>	Cyperaceae	native	1	0	sedge	perennial	sedge
<i>Carex communis</i>	Cyperaceae	native	2	5	sedge	perennial	sedge
<i>Carex cristatella</i>	Cyperaceae	native	3	-3	sedge	perennial	sedge
<i>Carex gracillima</i>	Cyperaceae	native	4	3	sedge	perennial	sedge
<i>Carex granularis</i>	Cyperaceae	native	2	-3	sedge	perennial	sedge
<i>Carex grayi</i>	Cyperaceae	native	6	-3	sedge	perennial	sedge
<i>Carex grisea</i>	Cyperaceae	native	3	0	sedge	perennial	sedge
<i>Carex hystericina</i>	Cyperaceae	native	2	-5	sedge	perennial	sedge
<i>Carex jamesii</i>	Cyperaceae	native	8	5	sedge	perennial	james sedge
<i>Carex laxiflora</i>	Cyperaceae	native	8	0	sedge	perennial	sedge
<i>Carex lupulina</i>	Cyperaceae	native	4	-5	sedge	perennial	sedge
<i>Carex lurida</i>	Cyperaceae	native	3	-5	sedge	perennial	sedge
<i>Carex pedunculata</i>	Cyperaceae	native	5	3	sedge	perennial	sedge
<i>Carex pellita</i>	Cyperaceae	native	2	-5	sedge	perennial	sedge
<i>Carex pensylvanica</i>	Cyperaceae	native	4	5	sedge	perennial	sedge
<i>Carex plantaginea</i>	Cyperaceae	native	8	5	sedge	perennial	sedge
<i>Carex prasina</i>	Cyperaceae	native	10	-5	sedge	perennial	sedge
<i>Carex radiata</i>	Cyperaceae	native	2	0	sedge	perennial	straight-styled wood sedge
<i>Carex rosea</i>	Cyperaceae	native	2	5	sedge	perennial	curly-styled wood sedge

<i>Carex scabrata</i>	Cyperaceae	native	4	-5	sedge	perennial	sedge
<i>Carex sparganioides</i>	Cyperaceae	native	5	3	sedge	perennial	sedge
<i>Carex swanii</i>	Cyperaceae	native	4	3	sedge	perennial	sedge
<i>Carex vulpinoidea</i>	Cyperaceae	native	1	-5	sedge	perennial	sedge
<i>Carpinus caroliniana</i>	Betulaceae	native	6	0	tree	perennial	blue-beech
<i>Carya cordiformis</i>	Juglandaceae	native	5	0	tree	perennial	bitternut hickory
<i>Celastrus orbiculatus</i>	Celastraceae	non-native	0	5	vine	perennial	oriental bittersweet
<i>Circaea canadensis</i>	Onagraceae	native	2	3	forb	perennial	enchanters-nightshade
<i>Cirsium vulgare</i>	Asteraceae	non-native	0	3	forb	biennial	bull thistle
<i>Claytonia virginica</i>	Montiaceae	native	4	3	forb	perennial	spring-beauty
<i>Cystopteris bulbifera</i>	Cystopteridaceae	native	5	-3	fern	perennial	bulblet fern
<i>Dichanthelium implicatum</i>	Poaceae	native	3	0	grass	perennial	panic grass
<i>Dryopteris carthusiana</i>	Dryopteridaceae	native	5	-3	fern	perennial	spinulose woodfern
<i>Dryopteris cristata</i>	Dryopteridaceae	native	6	-5	fern	perennial	crested shield fern
<i>Elaeagnus umbellata</i>	Elaeagnaceae	non-native	0	3	shrub	perennial	autumn-olive
<i>Elymus hystrix</i>	Poaceae	native	5	3	grass	perennial	bottlebrush grass
<i>Elymus virginicus</i>	Poaceae	native	4	-3	grass	perennial	virginia wild-rye
<i>Enemion biternatum</i>	Ranunculaceae	native	8	0	forb	perennial	false rue-anemone
<i>Epifagus virginiana</i>	Orobanchaceae	native	10	5	forb	annual	beech-drops
<i>Epipactis helleborine</i>	Orchidaceae	non-native	0	0	forb	perennial	helleborine
<i>Equisetum arvense</i>	Equisetaceae	native	0	0	fern	perennial	common horsetail
<i>Erythronium americanum</i>	Liliaceae	native	5	5	forb	perennial	yellow trout lily
<i>Euonymus obovatus</i>	Celastraceae	native	5	3	shrub	perennial	running strawberry-bush
<i>Fagus grandifolia</i>	Fagaceae	native	6	3	tree	perennial	american beech
<i>Fragaria virginiana</i>	Rosaceae	native	2	3	forb	perennial	wild strawberry
<i>Fraxinus americana</i>	Oleaceae	native	5	3	tree	perennial	white ash
<i>Galium aparine</i>	Rubiaceae	native	0	3	forb	annual	annual bedstraw
<i>Galium triflorum</i>	Rubiaceae	native	4	3	forb	perennial	fragrant bedstraw
<i>Geranium maculatum</i>	Geraniaceae	native	4	3	forb	perennial	wild geranium
<i>Geum canadense</i>	Rosaceae	native	1	0	forb	perennial	white avens
<i>Glyceria striata</i>	Poaceae	native	4	-5	grass	perennial	fowl manna grass
<i>Hackelia virginiana</i>	Boraginaceae	native	1	3	forb	biennial	beggars lice
<i>Hamamelis virginiana</i>	Hamamelidaceae	native	5	3	shrub	perennial	witch-hazel
<i>Hepatica acutiloba</i>	Ranunculaceae	native	8	5	forb	perennial	sharp-lobed hepatica
<i>Impatiens capensis</i>	Balsaminaceae	native	2	-3	forb	annual	spotted touch-me-not

<i>Impatiens pallida</i>	Balsaminaceae	native	6	-3	forb	annual	pale touch-me-not
<i>Juncus effusus</i>	Juncaceae	native	3	-5	rush	perennial	soft-stemmed rush
<i>Juncus pylaei</i>	Juncaceae	native	3	-5	rush	perennial	pylaies soft rush
<i>Juncus tenuis</i>	Juncaceae	native	1	0	rush	perennial	path rush
<i>Laportea canadensis</i>	Urticaceae	native	4	-3	forb	perennial	wood nettle
<i>Leersia virginica</i>	Poaceae	native	5	-3	grass	perennial	white grass
<i>Leonurus cardiaca</i>	Lamiaceae	non-native	0	5	forb	perennial	motherwort
<i>Ligustrum vulgare</i>	Oleaceae	non-native	0	3	shrub	perennial	common privet
<i>Lindera benzoin</i>	Lauraceae	native	7	-3	shrub	perennial	spicebush
<i>Luzula acuminata</i>	Juncaceae	native	5	3	rush	perennial	hairy wood rush
<i>Lysimachia ciliata</i>	Myrsinaceae	native	4	-3	forb	perennial	fringed loosestrife
<i>Lysimachia nummularia</i>	Myrsinaceae	non-native	0	-3	forb	perennial	moneywort
<i>Maianthemum canadense</i>	Convallariaceae	native	4	3	forb	perennial	canada mayflower
<i>Maianthemum racemosum</i>	Convallariaceae	native	5	3	forb	perennial	false spikenard
<i>Maianthemum stellatum</i>	Convallariaceae	native	5	0	forb	perennial	starry false solomon-seal
<i>Malus pumila</i>	Rosaceae	non-native	0	5	tree	perennial	apple
<i>Mitella diphylla</i>	Saxifragaceae	native	8	3	forb	perennial	bishops-cap
<i>Onoclea sensibilis</i>	Onocleaceae	native	2	-3	fern	perennial	sensitive fern
<i>Ostrya virginiana</i>	Betulaceae	native	5	3	tree	perennial	ironwood; hop-hornbeam
<i>Oxalis stricta</i>	Oxalidaceae	native	0	3	forb	perennial	yellow wood-sorrel
<i>Parthenocissus quinquefolia</i>	Vitaceae	native	5	3	vine	perennial	virginia creeper
<i>Persicaria punctata</i>	Polygonaceae	native	5	-5	forb	annual	smartweed
<i>Persicaria sagittata</i>	Polygonaceae	native	5	-5	forb	annual	arrow-leaved tear-thumb
<i>Persicaria virginiana</i>	Polygonaceae	native	4	0	forb	perennial	jumpseed
<i>Phytolacca americana</i>	Phytolaccaceae	native	2	3	forb	perennial	pokeweed
<i>Platanus occidentalis</i>	Platanaceae	native	7	-3	tree	perennial	sycamore
<i>Podophyllum peltatum</i>	Berberidaceae	native	3	3	forb	perennial	may-apple
<i>Polystichum acrostichoides</i>	Dryopteridaceae	native	6	3	fern	perennial	christmas fern
<i>Populus deltoides</i>	Salicaceae	native	1	0	tree	perennial	cottonwood
<i>Populus grandidentata</i>	Salicaceae	native	4	3	tree	perennial	big-tooth aspen
<i>Populus tremuloides</i>	Salicaceae	native	1	0	tree	perennial	quaking aspen
<i>Potentilla simplex</i>	Rosaceae	native	2	3	forb	perennial	old-field cinquefoil
<i>Prunus serotina</i>	Rosaceae	native	2	3	tree	perennial	wild black cherry
<i>Prunus virginiana</i>	Rosaceae	native	2	3	shrub	perennial	choke cherry
<i>Quercus alba</i>	Fagaceae	native	5	3	tree	perennial	white oak

<i>Quercus rubra</i>	Fagaceae	native	5	3	tree	perennial	red oak
<i>Ranunculus abortivus</i>	Ranunculaceae	native	0	0	forb	perennial	small-flowered buttercup
<i>Ranunculus recurvatus</i>	Ranunculaceae	native	5	-3	forb	perennial	hooked crowfoot
<i>Rhamnus cathartica</i>	Rhamnaceae	non-native	0	0	tree	perennial	common buckthorn
<i>Ribes cynosbati</i>	Grossulariaceae	native	4	3	shrub	perennial	prickly or wild gooseberry
<i>Rosa multiflora</i>	Rosaceae	non-native	0	3	shrub	perennial	multiflora rose
<i>Rubus allegheniensis</i>	Rosaceae	native	1	3	shrub	perennial	common blackberry
<i>Rubus occidentalis</i>	Rosaceae	native	1	5	shrub	perennial	black raspberry
<i>Rubus pensilvanicus</i>	Rosaceae	native	2	3	shrub	perennial	dewberry
<i>Rumex crispus</i>	Polygonaceae	non-native	0	0	forb	perennial	curly dock
<i>Rumex obtusifolius</i>	Polygonaceae	non-native	0	0	forb	perennial	bitter dock
<i>Sanguinaria canadensis</i>	Papaveraceae	native	5	3	forb	perennial	bloodroot
<i>Sassafras albidum</i>	Lauraceae	native	5	3	tree	perennial	sassafras
<i>Scirpus hattorianus</i>	Cyperaceae	native	3	-5	sedge	perennial	mosquito bulrush
<i>Smilax hispida</i>	Smilacaceae	native	5	0	vine	perennial	bristly greenbrier
<i>Solidago caesia</i>	Asteraceae	native	6	3	forb	perennial	bluestem goldenrod
<i>Solidago flexicaulis</i>	Asteraceae	native	6	3	forb	perennial	zigzag goldenrod
<i>Sphenopholis intermedia</i>	Poaceae	native	4	0	grass	perennial	slender wedgegrass
<i>Symplocarpus foetidus</i>	Araceae	native	6	-5	forb	perennial	skunk-cabbage
<i>Taraxacum officinale</i>	Asteraceae	non-native	0	3	forb	perennial	common dandelion
<i>Thalictrum dioicum</i>	Ranunculaceae	native	6	3	forb	perennial	early meadow-rue
<i>Thelypteris noveboracensis</i>	Thelypteridaceae	native	5	0	fern	perennial	new york fern
<i>Tilia americana</i>	Malvaceae	native	5	3	tree	perennial	basswood
<i>Toxicodendron radicans</i>	Anacardiaceae	native	2	0	vine	perennial	poison-ivy
<i>Trillium grandiflorum</i>	Trilliaceae	native	5	3	forb	perennial	common trillium
<i>Viburnum acerifolium</i>	Adoxaceae	native	6	5	shrub	perennial	maple-leaved viburnum
<i>Vitis riparia</i>	Vitaceae	native	3	0	vine	perennial	river-bank grape