

Clear Creek

Floristic Quality Assessment Technique
Iowa Database

Acronym	IA CofC	Scientific Name	Common Name	Physiognomy	W	Wet	Family	Native	Adventive	Comments
ACENEG	1	<i>Acer negundo</i>	Box elder	Tree	-2	FACW-	ACERACEAE	1		
ACESAI	3	<i>Acer saccharinum</i>	Silver maple	Tree	-3	FACW	ACERACEAE	1		
AGANEP	5	<i>Agastache nepetoides</i>	Yellow giant-hyssop	P-Forb	3	FACU	LAMIACEAE	1		
ALLPET	*	<i>ALLIARIA PETIOLATA</i>	Garlic mustard	B-Forb	0	FAC	BRASSICACEAE		1	
ALLCAC	4	<i>Allium canadense</i>	Wild onion	P-Forb	3	FACU	LILIACEAE	1		
ALLTRI	7	<i>Allium tricoccum</i>	Wild leek	P-Forb	2	FACU+	LILIACEAE	1		
AMBTRI	1	<i>Ambrosia trifida</i>	Giant ragweed	A-Forb	-1	FAC+	ASTERACEAE	1		
AMPBRB	4	<i>Amphicarpaea bracteata</i>	Hog peanut	H-Vine	0	FAC	FABACEAE	1		
ASACAN	6	<i>Asarum canadense</i>	Wild ginger	P-Forb	5	UPL	ARISTOLOCHACEAE	1		
ASCSYR	1	<i>Asclepias syriaca</i>	Common milkweed	P-Forb	5	UPL	ASCLEPIADACEAE	1		
BARVUL	*	<i>BARBAREA VULGARIS</i>	Yellow rocket	B-Forb	0	FAC	BRASSICACEAE		1	
BETNIG	6	<i>Betula nigra</i>	River birch	Tree	-3	FACW	BETULACEAE	1		
BRARAP	*	<i>BRASSICA RAPA</i>	Field mustard	A-Forb			BRASSICACEAE		1	
BROINE	*	<i>BROMUS INERMIS</i>	Smooth brome	P-Gram	5	UPL	POACEAE		1	
CARBUL	8	<i>Cardamine bulbosa</i>	Spring cress	P-Forb	-5	OBL	BRASSICACEAE	1		
CXPENP	5	<i>Carex pensylvanica</i>	Pennsylvania oak sedge	P-Gram	5	UPL	CYPERACEAE	1		
CXSPRE	5	<i>Carex sprengeii</i>	Long-beaked sedge	P-Gram	0	FAC	CYPERACEAE	1		
CXSTIP	4	<i>Carex stipata</i>	Common fox sedge	P-Gram	-5	OBL	CYPERACEAE	1		
CARCOR	4	<i>Carya cordiformis</i>	Bitternut hickory	Tree	0	FAC	JUGLANDACEAE	1		
CAROVT	5	<i>Carya ovata</i>	Shagbark hickory	Tree	3	FACU	JUGLANDACEAE	1		
CARTOM	7	<i>Carya tomentosa</i>	Mockernut hickory	Tree	5	UPL	JUGLANDACEAE	1		
CELOCC	3	<i>Celtis occidentalis</i>	Hackberry	Tree	1	FAC-	ULMACEAE	1		
CERARV	10	<i>Cerastium arvense</i>	Field chickweed	P-Forb	4	FACU-	CARYOPHYLLACEAE	1		
CHAPRC	2	<i>Chaerophyllum procumbens</i>	Chervil	A-Forb	-1	FAC+	APIACEAE	1		
CICMAC	8	<i>Cicuta maculata</i>	Water hemlock	B-Forb	-5	OBL	APIACEAE	1		
CINARU	5	<i>Cinna arundinacea</i>	Wood reed	P-Gram	-3	FACW	POACEAE	1		
CIRALP	10	<i>Circaea alpina</i>	Enchanter's nightshade	P-Forb	-3	FACW	ONAGRACEAE	1		
CIRDIS	2	<i>Cirsium discolor</i>	Field thistle	B-Forb	5	UPL	ASTERACEAE	1		
CLAVIR	5	<i>Claytonia virginica</i>	Spring beauty	P-Forb	3	FACU	PORTULACACEAE	1		
CONMAC	*	<i>CONIUM MACULATUM</i>	Poison hemlock	B-Forb	-3	FACW	APIACEAE		1	
CONARV	*	<i>CONVOLVULUS ARVENSIS</i>	Creeping Jenny	P-Forb	5	UPL	CONVOLVULACEAE		1	
CORDRU	3	<i>Cornus drummondii</i>	Rough-leaved dogwood	Shrub	0	FAC	CORNACEAE	1		
CORAME	5	<i>Corylus americana</i>	Hazelnut	Shrub	0	FAC	BETULACEAE	1		
CRACRU	3	<i>Crataegus crus-galli</i>	Cockspur hawthorn	Tree	0	FAC	ROSACEAE	1		
CRAMAR	6	<i>Crataegus margareta</i>	Margrett's hawthorn	Tree			ROSACEAE	1		
CRAMOL	3	<i>Crataegus mollis</i>	Downy hawthorn	Tree	-2	FACW-	ROSACEAE	1		
CRYCAN	2	<i>Cryptotaenia canadensis</i>	Honewort	P-Forb	0	FAC	APIACEAE	1		
DENLAC	7	<i>Dentaria laciniata</i>	Toothwort	P-Forb	5	UPL	BRASSICACEAE	1		
DICCUC	7	<i>Dicentra cucullaria</i>	Dutchman's breeches	P-Forb	5	UPL	PAPAVERACEAE	1		
ELLYNYC	1	<i>Ellisia nyctelea</i>	Waterpod, wild tomato	A-Forb	-1	FAC+	HYDROPHYLLACEAE	1		
ELYCAN	5	<i>Elymus canadensis</i>	Canada wild rye	P-Gram	1	FAC-	POACEAE	1		
ELYVIR	4	<i>Elymus virginicus</i>	Virginia wild rye	P-Gram	-2	FACW-	POACEAE	1		
ERYYUC	7	<i>Eryngium yuccifolium</i>	Rattlesnake master	P-Forb	-1	FAC+	APIACEAE	1		
ERYALB	6	<i>Erythronium albidum</i>	White dogtooth-violet	P-Forb	5	UPL	LILIACEAE	1		
ERYAME	9	<i>Erythronium americanum</i>	Yellow dogtooth-violet	P-Forb	5	UPL	LILIACEAE	1		
EUPPUR	6	<i>Eupatorium purpureum</i>	Purple Joe-pye-weed	P-Forb	0	FAC	ASTERACEAE	1		
FALLSCA	2	<i>Fallopia scandens</i>	Climbing false buckwheat	H-Vine	0	FAC	POLYGONACEAE	1		
FRAPEL	2	<i>Fraxinus pennsylvanica</i>	Green ash	Tree	-3	FACW	OLEACEAE	1		
GALSPE	4	<i>Galearis spectabilis</i>	Showy orchis	P-Forb	5	UPL	ORCHIDACEAE	1		

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GALAPA	1	<i>Galium aparine</i>	Cleavers	A-Forb	3	FACU	RUBIACEAE	1		
GALCIR	6	<i>Galium circaezans</i>	Wild licorice	P-Forb	4	FACU-	RUBIACEAE	1		
GEUCAN	2	<i>Geum canadense</i>	White avens	P-Forb	0	FAC	ROSACEAE	1		
GEULAC	5	<i>Geum laciniatum</i>	Rough avens	P-Forb	-3	FACW	ROSACEAE	1		
GLETRI	2	<i>Gleditsia triacanthos</i>	Honey locust	Tree	0	FAC	FABACEAE	1		
GLYGRA	7	<i>Glyceria grandis</i>	American manna grass	P-Gram	-5	OBL	POACEAE	1		
HACVIR	2	<i>Hackelia virginiana</i>	Stickseed	P-Forb	1	FAC-	BORAGINACEAE	1		
HELGRO	3	<i>Helianthus grosseserratus</i>	Saw-tooth sunflower	P-Forb	-2	FACW-	ASTERACEAE	1		
HERLAN	5	<i>Heracleum lanatum</i>	Cow parsnip	P-Forb	-3	FACW	APIACEAE	1		
HYDVIR	4	<i>Hydrophyllum virginianum</i>	Virginia waterleaf	P-Forb	-2	FACW-	HYDROPHYLLACEA	1		
ISOBIT	6	<i>Isopyrum bitematum</i>	False rue anemone	P-Forb	0	FAC	RANUNCULACEAE	1		
JUGNIG	4	<i>Juglans nigra</i>	Black walnut	Tree	3	FACU	JUGLANDACEAE	1		
JUNTEN	2	<i>Juncus tenuis</i>	Path rush	P-Gram	0	FAC	JUNCACEAE	1		
JUNVIR	1	<i>Juniperus virginiana</i>	Red cedar	Tree	3	FACU	CUPRESSACEAE	1		
LAPCAN	3	<i>Laportea canadensis</i>	Wood nettle	P-Forb	-3	FACW	URTICACEAE	1		
LEEORY	6	<i>Leersia oryzoides</i>	Rice cut-grass	P-Gram	-5	OBL	POACEAE	1		
LEMMIR	2	<i>Lemna minor</i>	Duckweed	A-Forb	-5	OBL	LEMNACEAE	1		
LEMPER	8	<i>Lemna perpusilla</i>	Least duckweed	A-Forb	-5	OBL	LEMNACEAE	1		Special Concern
LOBCAR	6	<i>Lobelia cardinalis</i>	Cardinal flower	P-Forb	-5	OBL	CAMPANULACEAE	1		
LOBSIP	4	<i>Lobelia siphilitica</i>	Great lobelia	P-Forb	-4	FACW+	CAMPANULACEAE	1		
MAICAS	8	<i>Maianthemum canadense</i>	Canada mayflower	P-Forb	0	FAC	LILIACEAE	1		
MERVIR	5	<i>Mertensia virginica</i>	Bluebell	P-Forb	-3	FACW	BORAGINACEAE	1		
MONFIS	3	<i>Monarda fistulosa</i>	Wild bergamot, horsemint	P-Forb	3	FACU	LAMIACEAE	1		
MORALB	*	MORUS ALBA	Chinese mulberry, white mulberry	Tree	0	FAC	MORACEAE		1	
OSMCLI	3	<i>Osmorhiza claytoni</i>	Sweet cicely	P-Forb	4	FACU-	APIACEAE	1		
PANVIR	7	<i>Panicum virgatum</i>	Switchgrass	A-Gram	-1	FAC+	POACEAE	1		
PARQUI	4	<i>Parthenocissus quinquefolia</i>	Virginia creeper	W-Vine	1	FAC-	VITACEAE	1		
PASSAT	*	PASTINACA SATIVA	Wild parsnip	B-Forb	5	UPL	APIACEAE		1	
PHAARU	*	PHALARIS ARUNDINACEA	Reed canary grass	P-Gram	-4	FACW+	POACEAE		1	
PHLDIV	6	<i>Phlox divaricata</i>	Sweet William, blue phlox	P-Forb	3	FACU	POLEMONIACEAE	1		
PHLMAC	8	<i>Phlox maculata</i>	Wild sweet William	P-Forb	-5	OBL	POLEMONIACEAE	1		
PHYAME	2	<i>Phytolacca americana</i>	Pokeweed	P-Forb	1	FAC-	PHYTOLACCACEAE	1		
PILPUM	4	<i>Pilea pumila</i>	Clearweed	A-Forb	-3	FACW	URTICACEAE	1		
POAPRA	*	POA PRATENSIS	Kentucky bluegrass	P-Gram	1	FAC-	POACEAE		1	
POLREP	6	<i>Polemonium reptans</i>	Jacob's ladder	P-Forb	0	FAC	POLEMONIACEAE	1		
POLBIF	5	<i>Polygonatum biflorum</i>	Solomon's seal	P-Forb	3	FACU	LILIACEAE	1		
POLVIG	5	<i>Polygonum virginianum</i>	Jumpseed	P-Forb	0	FAC	POLYGONACEAE	1		
POLCAN	6	<i>Polymnia canadensis</i>	Leafcup	P-Forb	5	UPL	ASTERACEAE	1		
POPDEL	2	<i>Populus deltoides</i>	Cottonwood	Tree	-1	FAC+	SALICACEAE	1		
PRUVUL	3	<i>Prunella vulgaris lanceolata</i>	Self heal	P-Forb	0	FAC	LAMIACEAE	1		
PRUAMA	3	<i>Prunus americana</i>	Wild plum	Tree	5	UPL	ROSACEAE	1		
PRUSER	3	<i>Prunus serotina</i>	Wild black cherry	Tree	3	FACU	ROSACEAE	1		
PRUVIR	4	<i>Prunus virginiana</i>	Choke cherry	Shrub	1	FAC-	ROSACEAE	1		
QUEBIC	8	<i>Quercus bicolor</i>	Swamp white oak	Tree	-4	FACW+	FAGACEAE	1		
QUERUB	6	<i>Quercus rubra</i>	Northern red oak	Tree	3	FACU	FAGACEAE	1		
QUEMAC	5	<i>Quercus macrocarpa</i>	Bur oak	Tree	1	FAC-	FAGACEAE	1		
RANABO	1	<i>Ranunculus abortivus</i>	Small-flowered crowfoot	A-Forb	-4	FACW+	RANUNCULACEAE	1		
RANREP	*	RANUNCULUS REPENS	Creeping buttercup	P-Forb	-1	FAC+	RANUNCULACEAE		1	
RANSES	6	<i>Ranunculus septentrionalis</i>	Swamp buttercup	P-Forb	-4	FACW+	RANUNCULACEAE	1		
RATPIN	4	<i>Ratibida pinnata</i>	Gray-headed coneflower	P-Forb	5	UPL	ASTERACEAE	1		
RHUGLA	3	<i>Rhus glabra</i>	Smooth sumac	Shrub	5	UPL	ANACARDIACEAE	1		
RIBMIS	3	<i>Ribes missouriense</i>	Wild gooseberry	Shrub	5	UPL	SAXIFRAGACEAE	1		
ROSMUL	*	ROSA MULTIFLORA	Multiflora rose	Shrub	3	FACU	ROSACEAE		1	
RUBALL	2	<i>Rubus allegheniensis</i>	Blackberry	Shrub	2	FACU+	ROSACEAE	1		

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RUBOCC	1	<i>Rubus occidentalis</i>	Black raspberry	Shrub	5	UPL	ROSACEAE	1		
RUDHIR	3	<i>Rudbeckia hirta</i>	Black-eyed Susan	P-Forb	3	FACU	ASTERACEAE	1		
RUDLAC	4	<i>Rudbeckia laciniata</i>	Tall coneflower	P-Forb	-4	FACW+	ASTERACEAE	1		
RUMALT	2	<i>Rumex altissimus</i>	Pale dock	P-Forb	4	FACU-	POLYGONACEAE	1		
RUMORB	9	<i>Rumex orbiculatus</i>	Great water dock	P-Forb	-5	OBL	POLYGONACEAE	1		
SALEXI	1	<i>Salix exigua interior</i>	Sandbar willow	Shrub	-5	OBL	SALICACEAE	1		
SALNIG	3	<i>Salix nigra</i>	Black willow	Tree	-5	OBL	SALICACEAE	1		
SAMCAN	3	<i>Sambucus canadensis</i>	Elderberry, common elder	Shrub	4	FACU-	CAPRIFOLIACEAE	1		
SANGRE	3	<i>Sanicula gregaria</i>	Common snakeroot	P-Forb	-1	FAC+	APIACEAE	1		
SCIATR	3	<i>Scirpus atrovirens</i>	Dark green bulrush	P-Gram	-5	OBL	CYPERACEAE	1		
SCRMAR	4	<i>Scrophularia marilandica</i>	Late figwort	P-Forb	4	FACU-	SCROPHULARIACEAE	1		
SILPER	2	<i>Silphium perfoliatum</i>	Cup plant	P-Forb	-2	FACW-	ASTERACEAE	1		
SMIHIS	3	<i>Smilax hispida</i>	Greenbrier	W-Vine	0	FAC	LILIACEAE	1		
SOLCAN	2	<i>Solidago canadensis</i>	Canada goldenrod	P-Forb	3	FACU	ASTERACEAE	1		
STAASP	6	<i>Stachys aspera</i>	Rough hedge nettle	P-Forb	-4	FACW+	LAMIACEAE	1		
TAROFF	*	<i>TARAXACUM OFFICINALE</i>	Common dandelion	P-Forb	3	FACU	ASTERACEAE		1	
THADIO	7	<i>Thalictrum dioicum</i>	Early meadow-rue	P-Forb	2	FACU+	RANUNCULACEAE	1		
TOXRAD	1	<i>Toxicodendron radicans</i>	Poison ivy	W-Vine	-1	FAC+	ANACARDIACEAE	1		
TOXRYD	1	<i>Toxicodendron rydbergii</i>	Rydberg's poison ivy	Shrub	0	FAC	ANACARDIACEAE	1		
TRIPEM	4	<i>Triosteum perfoliatum</i>	Late horse gentian	P-Forb	5	UPL	CAPRIFOLIACEAE	1		
TYPLAT	3	<i>Typha latifolia</i>	Common cattail	P-Forb	-5	OBL	TYPHACEAE	1		
ULMAME	3	<i>Ulmus americana</i>	American elm	Tree	-2	FACW-	ULMACEAE	1		
URTDIO	2	<i>Urtica dioica</i>	Stinging nettle	P-Forb	-1	FAC+	URTICACEAE	1		
UVUSES	9	<i>Uvularia sessilifolia</i>	Sessile-leaved bellwort	P-Forb	1	FAC-	LILIACEAE	1		
VERURT	2	<i>Verbena urticifolia</i>	White vervain	P-Forb	-1	FAC+	VERBENACEAE	1		
VERALT	5	<i>Verbesina alternifolia</i>	Wingstem	P-Forb	-3	FACW	ASTERACEAE	1		
VERVIM	6	<i>Veronicastrum virginicum</i>	Culver's root	P-Forb	0	FAC	SCROPHULARIACEAE	1		
VIOCAR	9	<i>Viola canadensis rugulosa</i>	Tall white violet	P-Forb	3	FACU	VIOLACEAE	1		
VIOSOR	3	<i>Viola sororia</i>	Hairy blue violet	P-Forb	1	FAC-	VIOLACEAE	1		
VIOPUP	5	<i>Viola pubescens</i>	Downy yellow violet	P-Forb	4	FACU-	VIOLACEAE	1		
VITRIP	3	<i>Vitis riparia</i>	Riverbank grape	W-Vine	-2	FACW-	VITACEAE	1		
ZANAME	4	<i>Zanthoxylum americanum</i>	Prickly ash	Shrub	5	UPL	RUTACEAE	1		
ZIZAUR	7	<i>Zizia aurea</i>	Golden alexanders	P-Forb	-1	FAC+	APIACEAE	1		

Total 530

Total Wetness 38
Native Wetness 23
Adventive Wetness 15

123 13

Floristic Quality Assessment	
Species Richness	
Total Native Flowering Plants	123
Total Bryophytes	0
Total Native Species	123
Total Non Native Species	13
Species Richness (Total # of species)	136
Coefficient of Conservatism	
Total C of C	530
Mean C of Native Flowering Plants	4.31
W/ Adventives	3.90
Floristic Quality Index	
Native FQI	47.8
W/ Adventives	45.4
Wetness Rating	
Native Wetness Index (Mean W)	0.19
W/ Adventives	0.28
AVG:	Facultative

Wetland Ratings

Upland - Value of 5. Almost never occurring in wetlands.

Facultative Upland - Value of 3. Occasionally occurs in wetlands but usually occurs in uplands.

Facultative - Value of 0. Equally likely to occur in either wetlands or uplands.

Facultative Wetland - Value of -3. Usually occurs in wetlands.

Obligate Wetland - Value of -5. Almost always occurs in wetlands.

Physiognomy Breakdown						
Type	Native	Percentage	Adventive	Percentage	Total	Percentage
Tree	22	17.89%	1	7.69%	23	17.04%
Shrub	11	8.94%	1	7.69%	12	8.89%
W-Vine	4	3.25%	0	0.00%	4	2.96%
H-Vine	2	1.63%	0	0.00%	2	1.48%
A-Forb	8	6.50%	1	7.69%	9	6.67%
B-Forb	2	1.63%	4	30.77%	6	4.44%
P-Forb	63	51.22%	3	23.08%	66	48.89%
A-Gram	1	0.81%	0	0.00%	1	0.74%
P-Gram	10	8.13%	3	23.08%	13	9.63%
Fern	0	0.00%	0	0.00%	0	0.00%
Bryophyte	0	0.00%	0	0.00%	0	0.00%
Total	123	100.00%	13	100.00%	136	100.74%

Physiognomy Descriptions

A-Forb = Annual Forb

A-Gram = Annual Graminoid

B-Forb = Biennial Forb

P-Gram = Perennial Graminoid

P-Forb = Perennial Forb

H-Vine = Herbaceous Vine

W-Vine = Woody Vine