

Coefficients of Conservatism for Plants of the Eastern Broadleaf Forest Ecological Province of Minnesota

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Overall Project Description

This is the second of three projects to create regional C-values used in the Floristic Quality Assessment (FQA) based on an ecological province in Minnesota. The focus here is strictly on the flora of the Eastern Broadleaf Forest. This has already been completed for the Prairie Parklands and Tallgrass Aspen Parklands provinces, and the regionalization of C-values for the Laurentian Mixed Forest province is scheduled to be completed concurrently with this effort. In Minnesota, C-values had been previously developed only for wetland and wetland-transition flora for Minnesota Pollution Control Agency (MPCA) (Milburn et al. 2007).

The list used in the assignment process is based on species known to occur in the EBF. The plant names used in this project follow the Minnesota Department of Natural Resources (DNR) MNTaxa plant checklist (DNR, n.d.) obtainable from the DNR website.

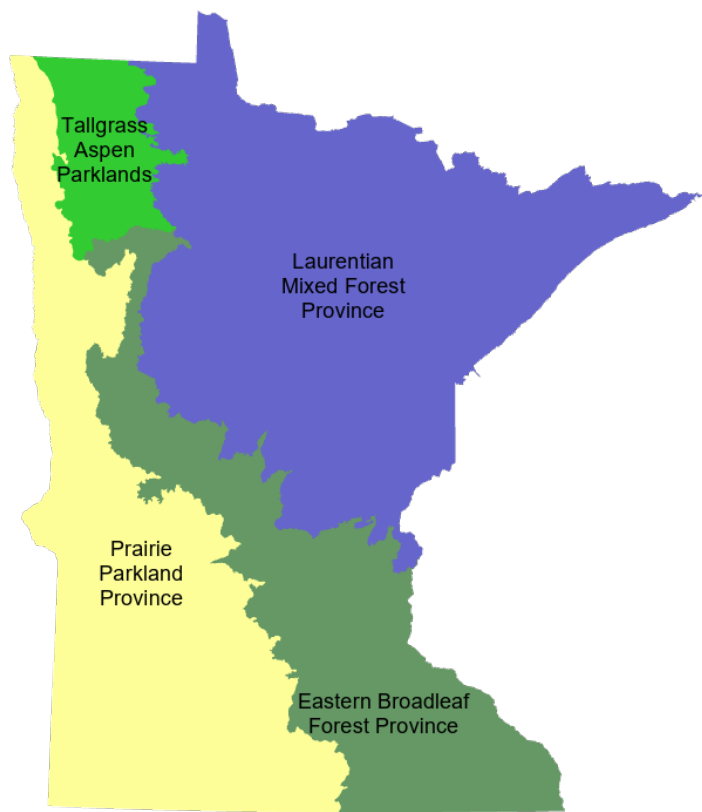


Figure 1. Minnesota's four ecological provinces.

FQA Description

The Floristic Quality Assessment (FQA) is a repeatable metric that is centered on the concept of species conservatism and provides an additional tool for assessing the quality of natural areas and native plant communities. FQA depends on assigning coefficients of conservatism (C-values) to a regional flora.

Many states assign one C-value to each species occurring in their state. However, Minnesota has considerable variation in microhabitats between its 4 ecological provinces, ranging from sub-boreal habitats in the northeast to the eastern edges of the Great Plains in the west. Some plant species occur in several ecological provinces and vary in microhabitat specificity regionally. For example, *Clintonia borealis*, *Epigaea repens*, and *Mitchella repens* are widespread in the LMF, but in the Blufflands Region of the Eastern Broadleaf Forest (EBF) Province they occur as disjuncts in refugia on north-facing cliffs and talus slopes. For this reason, we decided to create C-values on an ecoregional basis. These values will be assigned by a team of regional experts with extensive experience across the EBF. Our approach follows efforts that assign C-values for specific ecological regions elsewhere, such as for wetlands of the southeastern United States (Gianopoulos 2014)

Coefficients of conservatism are based on the accumulated field experience of the people who assign the values and are, by nature, based on professional judgment. We attempt to limit bias by using several experts. These experts assign C-values independently, and major disagreements will be discussed as needed (see details below).

Species Conservatism

Species conservatism captures a species' tolerance to degradation and its "fidelity" to specific habitats. As anthropogenic degradation occurs, certain species will cease to persist. Furthermore, those species may be restricted to a particular habitat. Species most sensitive to degradation and most confined to a narrow range of microhabitat conditions are the most conservative, while species tolerant to disturbance and occurring in varying habitat types are considered the least conservative. To easily communicate a species' conservatism (and facilitate an FQA), each native species in a region's flora is assigned a numerical Coefficient of Conservatism value (C-value). These values are assigned on a scale of 0-10, with 0 serving as the least conservative and 10 as the most conservative.

The expert panel assembled for this project includes both private and public sector botanists with extensive experience in the Eastern Broadleaf Forest province. Each panel member worked independently to assign C-values to the species for which they have sufficient knowledge. Group average and standard deviation were calculated for each species. Final values represent the group means, except in cases where the standard deviation of the group mean is greater than two. In the latter case, a subset of the panel will review pertinent data sources and determine a final value.

Assigning Values

C-values are assigned based on the following:

0-3: taxa found in a wide variety of plant communities and highly tolerant of unnatural degradation (low specificity, high tolerance)

4-6: taxa found in a range of plant communities and tolerant of moderate unnatural degradation (moderate specificity, moderate tolerance)

7-8: taxa restricted to a narrow range of plant community type/closely related types (narrow range of synecological conditions) but tolerant of moderate levels of unnatural degradation (high specificity, moderate tolerance)

9-10: taxa restricted to a narrow range of plant community type/closely related types (narrow range of synecological conditions) and have little tolerance of unnatural degradation (high specificity, low tolerance)

Degradation

Degradation is mainly the result of anthropogenic disturbances that are novel to the natural community, or suppression of disturbance that naturally sustained a community. Examples of degradation in the EBF include the following:

- Fire suppression
- Hydrologic alteration
- Timber management
 - Herbicide application
 - Rock raking
 - Plantation monoculture establishment
- Mining (gravel, mineral, and peat resources)
- Recreation vehicle use (ATV/OHV)
- Soil disturbance (e.g., compaction, rutting)
- Fragmentation (i.e., increased edge effects/loss of interior forest habitat)
- Unnaturally high levels of native animal herbivores (e.g. deer browse)
- Invasive plant species invasion
- Overgrazing
- Nutrient enrichment

Habitat Specificity

Examples of microhabitat requirements range from very specific, narrowly defined microhabitat characteristics, such as calcareous fens, versus ubiquitous ecological systems such as meadow or wet forest communities. While wet meadows are common throughout the EBF, some taxa may depend on specific hydrological and nutrient requirements. For example, the Anoka Sandplain is home to several wetland species that are commonly associated ecotonal areas along groundwater influenced, sandy wetlands (*Rubus*, *Scleria triglomerata*, *Juncus marginatus*). Even though the greater wet meadow may be common, the partially inundated sandy soil is not. Therefore, the habitat for these Anoka Sandplain species may need more careful consideration than associated wet meadow plants without specific habitat requirements.

Additional Considerations

Consideration was also given to issues of rarity and distribution in Minnesota. Rarity is not necessarily correlated with high C-values, as a species listed as rare may be reliant on disturbance events including anthropogenic disturbances (for example, rare species in revegetating gravel mines).

Introduced species are not included in the assignment process. Users wanting to include invasives in their evaluations should assign these species a value of 0.

Species where there was a large scoring discrepancy between experts may indicate a lack of understanding for a particular taxon. If experts determine more information is required to assign an appropriate C-value, we may omit those C-values from the final product. However, omissions may be as simple as the lack of specified locality information or recent nomenclatural name changes.

The MNTaxa checklist tracks taxa to their lowest relevant taxonomic unit. If more than one subspecies/variety/form occurs in Minnesota, these will be evaluated independently. In some instances, it may be appropriate to assign different C-values on lower taxonomic levels (*Petasites frigidus sagittatus* vs. *Petasites frigidus palmatus*), we expect that most taxa will not differ past the species level. Subject matter experts can make the determination when evaluating.

Expert Panel

The panel was comprised of individuals with extensive botanical experience in the Eastern Broadleaf Forest province of Minnesota. Special thanks go to those members of the panel for providing both critical input and time. The panel included Amanda Weise, Derek Anderson, Dustin Graham, Fred Harris, Jake Walden, Michael Lee, Nathan Dahlberg, Otto Gockman, Scott Milburn, and Welby Smith.

References

- DNR, Minnesota. n.d. "MNTaxa: The State of Minnesota Vascular Plant Checklist." Accessed December 23, 2025. <https://www.dnr.state.mn.us/eco/mbs/plant-lists.html>.
- Gianopulos, Kristie. 2014. *Coefficient of Conservatism Database Development for Wetland Plants Occurring in the Southeastern United States*.
- Milburn, Scott A., Michael Bourdaghs, and Jason J. Husveth. 2007. *Floristic Quality Assessment for Minnesota Wetlands*.

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An asterisk (*) indicates a species where experts disagreed by more than two standard deviations. These species had a second round of review and were discussed amongst a small group of panelists. A 'no value' means either expert panelists did not evaluate the species or did not feel confident assigning a C-value. Suffixes *sensu lato* (s.l.) and *sensu stricto* (s.s.) reference the "broad" and "strict" sense of the taxonomy, respectively (See MNTaxa for more details).

MN DNR Official Name	EBF C-value
× <i>Elyhordeum macounii</i>	no value
<i>Abies balsamea</i>	8
<i>Acalypha rhomboidea</i>	1
<i>Acer negundo</i>	2
<i>Acer negundo</i> var. <i>negundo</i>	2
<i>Acer negundo</i> var. <i>texanum</i>	2
<i>Acer nigrum</i>	7
<i>Acer rubrum</i> var. <i>rubrum</i>	5
<i>Acer saccharinum</i>	5
<i>Acer saccharum</i>	5
<i>Acer spicatum</i>	7
<i>Achillea millefolium</i>	2
<i>Achnatherum hymenoides</i>	10
<i>Acorus americanus</i>	6
<i>Actaea pachypoda</i>	8
<i>Actaea rubra</i>	5
<i>Adiantum pedatum</i>	7
<i>Adlumia fungosa</i>	5
<i>Adoxa moschatellina</i>	9
<i>Agalinis aspera</i>	8
<i>Agalinis auriculata</i>	10
<i>Agalinis gattingeri</i>	10
<i>Agalinis purpurea</i> s.l.	7
<i>Agalinis purpurea</i> var. <i>parviflora</i>	6
<i>Agalinis purpurea</i> var. <i>purpurea</i>	8
<i>Agalinis tenuifolia</i>	6
<i>Agastache foeniculum</i>	6

MN DNR Official Name	EBF C-value
<i>Agastache nepetoides</i>	8
<i>Agastache scrophulariaefolia</i>	5
<i>Ageratina altissima</i> var. <i>altissima</i>	2
<i>Agoseris glauca</i> var. <i>glauca</i>	8
<i>Agrimonia gryposepala</i>	4
<i>Agrimonia pubescens</i>	5
<i>Agrimonia striata</i>	3
<i>Agrostis hyemalis</i>	10
<i>Agrostis perennans</i>	no value*
<i>Agrostis scabra</i> s.l.	3
<i>Alisma gramineum</i>	8
<i>Alisma subcordatum</i>	6
<i>Alisma triviale</i>	5
<i>Allium canadense</i> var. <i>canadense</i>	5
<i>Allium cernuum</i>	8
<i>Allium schoenoprasum</i>	no value
<i>Allium stellatum</i>	7
<i>Allium tricoccum</i> s.l.	7
<i>Allium tricoccum</i> var. <i>burdickii</i>	7
<i>Allium tricoccum</i> var. <i>tricoccum</i>	6
<i>Alnus incana</i> subsp. <i>rugosa</i>	5
<i>Alopecurus aequalis</i> var. <i>aequalis</i>	5*
<i>Alopecurus carolinianus</i>	8
<i>Amaranthus albus</i>	2
<i>Amaranthus tuberculatus</i> s.l.	2

MN DNR Official Name	EBF C-value
<i>Ambrosia artemisiifolia</i>	1
<i>Ambrosia psilostachya</i>	4
<i>Ambrosia trifida</i>	1
<i>Amelanchier alnifolia</i>	7
<i>Amelanchier arborea</i>	no value*
<i>Amelanchier humilis</i>	5
<i>Amelanchier interior</i>	5
<i>Amelanchier intermedia</i>	4
<i>Amelanchier laevis</i>	6
<i>Amelanchier sanguinea</i>	4
<i>Amelanchier spicata</i>	no value
<i>Amerorchis rotundifolia</i>	10
<i>Amorpha canescens</i>	7
<i>Amorpha fruticosa</i>	4
<i>Amorpha nana</i>	9
<i>Amphicarpaea bracteata</i>	4
<i>Anaphalis margaritacea</i>	4
<i>Andromeda polifolia</i> var. <i>latifolia</i>	9
<i>Andropogon gerardii</i>	5
<i>Androsace occidentalis</i>	5
<i>Androsace septentrionalis</i>	no value*
<i>Anemone acutiloba</i>	6
<i>Anemone americana</i>	7
<i>Anemone canadensis</i>	4
<i>Anemone caroliniana</i>	8
<i>Anemone cylindrica</i>	6
<i>Anemone patens</i> var. <i>multifida</i>	8
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	5
<i>Anemone virginiana</i> s.l.	5
<i>Anemone virginiana</i> var. <i>alba</i>	no value
<i>Anemone virginiana</i> var. <i>cylindroidea</i>	no value
<i>Anemone virginiana</i> var. <i>virginiana</i>	no value
<i>Angelica atropurpurea</i>	7
<i>Antennaria howellii</i>	4
<i>Antennaria howellii</i> subsp. <i>canadensis</i>	1
<i>Antennaria howellii</i> subsp. <i>neodioica</i>	1

MN DNR Official Name	EBF C-value
<i>Antennaria howellii</i> subsp. <i>petaloidea</i>	1
<i>Antennaria microphylla</i>	8
<i>Antennaria neglecta</i> s.s.	4
<i>Antennaria parlinii</i>	5
<i>Antennaria parlinii</i> subsp. <i>fallax</i>	1
<i>Antennaria parvifolia</i>	7
<i>Antennaria plantaginifolia</i> s.s.	7
<i>Anthoxanthum hirtum</i>	6
<i>Apios americana</i>	6
<i>Aplectrum hyemale</i>	8
<i>Apocynum androsaemifolium</i>	4
<i>Apocynum cannabinum</i> s.l.	4
<i>Aquilegia canadensis</i>	5
<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i>	6
<i>Arabis pycnocarpa</i> var. <i>pycnocarpa</i>	5
<i>Aralia hispida</i>	8
<i>Aralia nudicaulis</i>	5
<i>Aralia racemosa</i>	7
<i>Arceuthobium pusillum</i>	10
<i>Arctostaphylos uva-ursi</i>	8
<i>Arethusa bulbosa</i>	10
<i>Arisaema dracontium</i>	8
<i>Arisaema triphyllum</i>	4
<i>Aristida basiramea</i>	6
<i>Aristida dichotoma</i> var. <i>curtissii</i>	no value*
<i>Aristida longespica</i> var. <i>geniculata</i>	9
<i>Aristida oligantha</i>	no value
<i>Aristida purpurea</i> var. <i>longiseta</i>	8
<i>Aristida tuberculosa</i>	9
<i>Arnoglossum plantagineum</i>	9
<i>Arnoglossum reniforme</i>	9
<i>Aronia melanocarpa</i>	7
<i>Artemisia campestris</i> subsp. <i>caudata</i>	6*
<i>Artemisia dracunculus</i>	4

MN DNR Official Name	EBF C-value
<i>Artemisia frigida</i>	7
<i>Artemisia ludoviciana</i> subsp. <i>ludoviciana</i>	4
<i>Artemisia serrata</i>	5
<i>Asarum canadense</i>	6
<i>Asclepias amplexicaulis</i>	10
<i>Asclepias exaltata</i>	7
<i>Asclepias hirtella</i>	10
<i>Asclepias incarnata</i> subsp. <i>incarnata</i>	5
<i>Asclepias lanuginosa</i>	9
<i>Asclepias ovalifolia</i>	7*
<i>Asclepias speciosa</i>	6*
<i>Asclepias stenophylla</i>	10
<i>Asclepias sullivantii</i>	9
<i>Asclepias syriaca</i>	2
<i>Asclepias tuberosa</i> subsp. <i>interior</i>	7
<i>Asclepias verticillata</i>	4
<i>Asclepias viridiflora</i>	8
<i>Asplenium platyneuron</i>	5*
<i>Asplenium rhizophyllum</i>	9
<i>Asplenium trichomanes</i> subsp. <i>trichomanes</i>	10
<i>Astragalus agrestis</i>	6
<i>Astragalus canadensis</i> var. <i>canadensis</i>	6
<i>Astragalus crassicaupus</i> var. <i>crassicaupus</i>	8
<i>Astragalus laxmannii</i> var. <i>robustior</i>	8
<i>Astragalus lotiflorus</i>	9
<i>Astragalus multiflorus</i>	no value
<i>Astragalus neglectus</i>	7
<i>Athyrium filix-femina</i> var. <i>angustum</i>	5
<i>Aureolaria pedicularia</i>	9
<i>Avenula hookeri</i>	9
<i>Azolla microphylla</i>	6
<i>Bacopa rotundifolia</i>	8
<i>Baptisia lactea</i> var. <i>lactea</i>	8
<i>Baptisia leucophaea</i>	8
<i>Barbarea orthoceras</i>	10

MN DNR Official Name	EBF C-value
<i>Bartonia virginica</i>	10
<i>Beckmannia syzigachne</i>	4
<i>Berula incisa</i>	9
<i>Betula xpurpusii</i>	no value
<i>Betula xsandbergii</i>	6
<i>Betula alleghaniensis</i>	8
<i>Betula nigra</i>	7
<i>Betula papyrifera</i>	5
<i>Betula pumila</i>	7
<i>Bidens beckii</i>	7
<i>Bidens cernua</i>	4
<i>Bidens connata</i>	5
<i>Bidens discoidea</i>	7
<i>Bidens frondosa</i>	3
<i>Bidens trichosperma</i>	8*
<i>Bidens tripartita</i>	5
<i>Bidens vulgata</i>	2
<i>Blephilia hirsuta</i>	6
<i>Boechera canadensis</i>	7
<i>Boechera dentata</i>	7
<i>Boechera grahamii</i>	6
<i>Boechera laevigata</i>	8
<i>Boechera stricta</i>	7
<i>Boehmeria cylindrica</i>	4
<i>Bolboschoenus fluviatilis</i>	5
<i>Bolboschoenus maritimus</i> subsp. <i>paludosus</i>	6
<i>Boltonia asteroides</i>	6
<i>Boltonia asteroides</i> var. <i>latisquama</i>	no value
<i>Boltonia asteroides</i> var. <i>recognita</i>	no value
<i>Botrychium matricariifolium</i>	6
<i>Botrychium mormo</i>	10
<i>Botrychium pallidum</i>	5
<i>Botrychium simplex</i> var. <i>simplex</i>	5
<i>Botrychium tenebrosum</i>	8
<i>Botrypus virginianus</i>	5
<i>Bouteloua curtipendula</i> var. <i>curtipendula</i>	6
<i>Bouteloua gracilis</i>	7

MN DNR Official Name	EBF C-value
<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	7
<i>Brachyelytrum aristosum</i>	6
<i>Brachyelytrum erectum</i> s.s.	7
<i>Brasenia schreberi</i>	7
<i>Brickellia eupatorioides</i> var. <i>corymbulosa</i>	7
<i>Bromus ciliatus</i>	6
<i>Bromus kalmii</i>	7
<i>Bromus latiglumis</i>	6
<i>Bromus pubescens</i>	6
<i>Buchloe dactyloides</i>	7
<i>Bulbostylis capillaris</i>	8
<i>Calamagrostis canadensis</i>	5
<i>Calamagrostis canadensis</i> var. <i>canadensis</i>	no value
<i>Calamagrostis canadensis</i> var. <i>langsdoeffii</i>	no value
<i>Calamagrostis canadensis</i> var. <i>macouniana</i>	7
<i>Calamagrostis stricta</i>	7
<i>Calamagrostis stricta</i> subsp. <i>inexpansa</i>	no value
<i>Calamagrostis stricta</i> subsp. <i>stricta</i>	no value
<i>Calamovilfa longifolia</i> var. <i>longifolia</i>	7
<i>Calla palustris</i>	7
<i>Callirhoe triangulata</i>	10
<i>Callitriche heterophylla</i>	10
<i>Callitriche palustris</i>	6*
<i>Calopogon oklahomensis</i>	10
<i>Calopogon tuberosus</i> var. <i>tuberosus</i>	9
<i>Caltha palustris</i>	6
<i>Calystegia macounii</i>	no value
<i>Calystegia sepium</i>	3
<i>Calystegia sepium</i> subsp. <i>angulata</i>	2
<i>Calystegia sepium</i> subsp. <i>appalachiana</i>	2
<i>Calystegia spithamea</i>	6
<i>Calystegia spithamea</i> subsp. <i>spithamea</i>	4

MN DNR Official Name	EBF C-value
<i>Calystegia spithamea</i> subsp. <i>stans</i>	4
<i>Campanula americana</i>	5
<i>Campanula aparinoides</i>	5
<i>Campanula aparinoides</i> var. <i>aparinoides</i>	6
<i>Campanula aparinoides</i> var. <i>grandiflora</i>	6
<i>Campanula rotundifolia</i>	6
<i>Cardamine bulbosa</i>	7
<i>Cardamine concatenata</i>	7
<i>Cardamine douglassii</i>	9
<i>Cardamine parviflora</i>	no value*
<i>Cardamine pennsylvanica</i>	4
<i>Carex albursina</i>	7
<i>Carex alopecoidea</i>	6
<i>Carex annectens</i>	7
<i>Carex aquatilis</i>	7
<i>Carex aquatilis</i> var. <i>substricta</i>	7
<i>Carex arcta</i>	9
<i>Carex arctata</i>	6
<i>Carex assiniboinensis</i>	6
<i>Carex atherodes</i>	5
<i>Carex aurea</i>	5
<i>Carex backii</i> s.s.	8
<i>Carex bebbii</i>	5
<i>Carex bicknellii</i>	6
<i>Carex blanda</i>	4
<i>Carex brevior</i>	5
<i>Carex bromoides</i> subsp. <i>bromoides</i>	9
<i>Carex brunnescens</i>	7
<i>Carex brunnescens</i> subsp. <i>sphaerostachya</i>	7
<i>Carex buxbaumii</i>	7
<i>Carex canescens</i>	6
<i>Carex canescens</i> subsp. <i>canescens</i>	7
<i>Carex canescens</i> subsp. <i>disjuncta</i>	7
<i>Carex capillaris</i>	9
<i>Carex careyana</i>	10
<i>Carex cephaloidea</i>	6

MN DNR Official Name	EBF C-value
<i>Carex cephalophora</i>	6
<i>Carex chordorrhiza</i>	9
<i>Carex communis</i> var. <i>communis</i>	8
<i>Carex comosa</i>	5
<i>Carex conjuncta</i>	9
<i>Carex conoidea</i> s.l.	7
<i>Carex crawei</i>	6
<i>Carex crawfordii</i>	5
<i>Carex cristatella</i>	5
<i>Carex crus-corvi</i>	no value
<i>Carex cryptolepis</i>	7
<i>Carex davisii</i>	9
<i>Carex debilis</i> var. <i>rudgei</i>	7
<i>Carex deweyana</i> var. <i>deweyana</i>	4
<i>Carex diandra</i>	7
<i>Carex disperma</i>	7
<i>Carex duriuscula</i>	6
<i>Carex eburnea</i>	7
<i>Carex echinata</i> subsp. <i>echinata</i>	7
<i>Carex echinodes</i>	5
<i>Carex emoryi</i>	7
<i>Carex filifolia</i> var. <i>filifolia</i>	8
<i>Carex foenea</i>	7
<i>Carex formosa</i>	8
<i>Carex gracillima</i>	5
<i>Carex granularis</i>	4
<i>Carex grvida</i>	5
<i>Carex grayi</i>	8
<i>Carex grisea</i>	4
<i>Carex gynocrates</i>	9
<i>Carex hallii</i> s.l.	9
<i>Carex haydenii</i>	7
<i>Carex hirtifolia</i>	6
<i>Carex hitchcockiana</i>	7
<i>Carex houghtoniana</i>	7
<i>Carex hystericina</i>	6
<i>Carex inops</i> subsp. <i>heliophila</i>	6
<i>Carex interior</i>	6
<i>Carex intumescens</i>	5

MN DNR Official Name	EBF C-value
<i>Carex jamesii</i>	9
<i>Carex lacustris</i>	5
<i>Carex laeviconica</i>	6
<i>Carex laevivaginata</i>	8
<i>Carex lasiocarpa</i>	7
<i>Carex laxiculmis</i> var. <i>copulata</i>	8
<i>Carex leptalea</i>	6
<i>Carex leptoneuria</i>	6
<i>Carex limosa</i>	8
<i>Carex livida</i>	10
<i>Carex lupulina</i>	6
<i>Carex magellanica</i> subsp. <i>irrigua</i>	8
<i>Carex meadii</i>	6
<i>Carex molesta</i>	5
<i>Carex muehlenbergii</i>	7
<i>Carex muehlenbergii</i> var. <i>muehlenbergii</i>	7
<i>Carex muskingumensis</i>	8
<i>Carex normalis</i>	7*
<i>Carex obtusata</i>	8
<i>Carex oligocarpa</i>	7*
<i>Carex oligosperma</i>	9
<i>Carex pauciflora</i>	10
<i>Carex peckii</i>	6
<i>Carex pedunculata</i>	5
<i>Carex pellita</i>	5
<i>Carex pennsylvanica</i>	4
<i>Carex plantaginea</i>	10
<i>Carex praegracilis</i>	4
<i>Carex prairea</i>	8
<i>Carex projecta</i>	5
<i>Carex pseudocyperus</i>	5
<i>Carex radiata</i>	6
<i>Carex retrorsa</i>	6
<i>Carex richardsonii</i>	8
<i>Carex rosea</i>	4
<i>Carex rostrata</i>	9
<i>Carex sartwellii</i>	5
<i>Carex saximontana</i>	7
<i>Carex scoparia</i>	4
<i>Carex siccata</i>	6

MN DNR Official Name	EBF C-value
<i>Carex sparganioides</i> s.s.	6
<i>Carex sprengelii</i>	5
<i>Carex sterilis</i>	10
<i>Carex stipata</i> var. <i>stipata</i>	4
<i>Carex stricta</i>	6
<i>Carex sychnocephala</i>	6
<i>Carex tenera</i> s.s.	5
<i>Carex tenuiflora</i>	8
<i>Carex tetanica</i>	6
<i>Carex tosa</i>	7
<i>Carex tosa</i> var. <i>tosa</i>	7
<i>Carex torreyi</i>	8
<i>Carex tribuloides</i> var. <i>tribuloides</i>	6
<i>Carex trichocarpa</i>	8
<i>Carex trisperma</i>	8
<i>Carex tuckermanii</i>	8
<i>Carex typhina</i>	9
<i>Carex umbellata</i>	7
<i>Carex utriculata</i>	6
<i>Carex vaginata</i>	9
<i>Carex vesicaria</i>	7
<i>Carex vulpinoidea</i>	4
<i>Carex woodii</i>	8
<i>Carpinus caroliniana</i> subsp. <i>virginiana</i>	7
<i>Carya cordiformis</i>	6
<i>Carya ovata</i> var. <i>ovata</i>	6*
<i>Castilleja coccinea</i>	5
<i>Castilleja sessiliflora</i>	9
<i>Caulophyllum thalictroides</i>	7
<i>Ceanothus americanus</i>	7
<i>Ceanothus herbaceus</i>	8
<i>Celastrus scandens</i>	4
<i>Celtis occidentalis</i>	4
<i>Cenchrus longispinus</i>	4
<i>Cenchrus spinifex</i>	no value*
<i>Cephalanthus occidentalis</i>	7
<i>Cerastium arvense</i>	no value*
<i>Cerastium arvense</i> subsp. <i>strictum</i>	7*
<i>Cerastium brachypodum</i>	5

MN DNR Official Name	EBF C-value
<i>Cerastium nutans</i> var. <i>nutans</i>	3
<i>Ceratophyllum demersum</i>	3
<i>Ceratophyllum echinatum</i>	10
<i>Chamaecrista fasciculata</i>	7
<i>Chamaedaphne calyculata</i>	8
<i>Chamaenerion angustifolium</i>	6
<i>Chamaenerion angustifolium</i> subsp. <i>circumvagum</i>	7
<i>Chamaerhodos erecta</i>	no value*
<i>Chelone glabra</i>	7
<i>Chenopodium berlandieri</i>	1
<i>Chenopodium berlandieri</i> var. <i>bushianum</i>	2
<i>Chenopodium berlandieri</i> var. <i>zschackei</i>	1
<i>Chenopodium capitatum</i> var. <i>capitatum</i>	1
<i>Chenopodium desiccatum</i> s.s.	5
<i>Chenopodium glaucum</i>	5*
<i>Chenopodium glaucum</i> var. <i>glaucum</i>	5*
<i>Chenopodium pratericola</i>	4
<i>Chenopodium rubrum</i>	1
<i>Chenopodium rubrum</i> var. <i>rubrum</i>	1
<i>Chenopodium simplex</i>	4
<i>Chenopodium standleyanum</i>	3
<i>Chimaphila umbellata</i> subsp. <i>umbellata</i>	8
<i>Chrysosplenium americanum</i>	9
<i>Chrysosplenium iowense</i>	10
<i>Cicuta bulbifera</i>	6*
<i>Cicuta maculata</i>	5
<i>Cicuta maculata</i> var. <i>maculata</i>	5
<i>Cinna arundinacea</i>	5
<i>Cinna latifolia</i>	6
<i>Circaea alpina</i> subsp. <i>alpina</i>	7
<i>Circaea canadensis</i> subsp. <i>canadensis</i>	4
<i>Cirsium altissimum</i>	5
<i>Cirsium discolor</i>	4
<i>Cirsium flodmanii</i>	6

MN DNR Official Name	EBF C-value
<i>Cirsium muticum</i>	6
<i>Cirsium pumilum</i> var. <i>hillii</i>	8
<i>Cladium mariscoides</i>	10
<i>Claytonia caroliniana</i>	8
<i>Claytonia virginica</i>	6
<i>Claytonomunda claytoniana</i>	5
<i>Clematis occidentalis</i> var. <i>occidentalis</i>	8
<i>Clematis virginiana</i>	3
<i>Clintonia borealis</i>	7
<i>Coeloglossum viride</i> var. <i>virescens</i>	7
<i>Collomia linearis</i>	5
<i>Comandra umbellata</i> subsp. <i>umbellata</i>	5
<i>Comarum palustre</i>	6
<i>Commelina erecta</i>	10
<i>Conyza canadensis</i>	1
<i>Coptis trifolia</i>	8
<i>Corallorhiza maculata</i>	7
<i>Corallorhiza maculata</i> var. <i>maculata</i>	7
<i>Corallorhiza maculata</i> var. <i>occidentalis</i>	7
<i>Corallorhiza odontorhiza</i> var. <i>odontorhiza</i>	7
<i>Corallorhiza striata</i> var. <i>striata</i>	8
<i>Corallorhiza trifida</i>	7
<i>Coreopsis palmata</i>	7
<i>Corispermum americanum</i> var. <i>americanum</i>	4
<i>Corispermum pallasii</i>	3
<i>Cornus alternifolia</i>	6
<i>Cornus canadensis</i>	7
<i>Cornus drummondii</i>	no value*
<i>Cornus obliqua</i>	5
<i>Cornus racemosa</i>	4
<i>Cornus rugosa</i>	6
<i>Cornus sericea</i>	4
<i>Corydalis aurea</i> var. <i>aurea</i>	5
<i>Corydalis micrantha</i> var. <i>micrantha</i>	5

MN DNR Official Name	EBF C-value
<i>Corydalis sempervirens</i>	7
<i>Corylus americana</i>	4
<i>Corylus cornuta</i> subsp. <i>cornuta</i>	4
<i>Crataegus calpodendron</i>	7*
<i>Crataegus chrysocarpa</i>	4
<i>Crataegus laurentiana</i>	6
<i>Crataegus macracantha</i>	4
<i>Crataegus macrosperma</i>	5
<i>Crataegus mollis</i>	5
<i>Crataegus punctata</i>	5
<i>Crataegus scabrida</i>	no value
<i>Crataegus schuettei</i>	no value
<i>Crataegus submollis</i>	6
<i>Crepis runcinata</i> subsp. <i>runcinata</i>	no value*
<i>Crocianthemum bicknellii</i>	6
<i>Crocianthemum canadense</i>	8
<i>Cryptogramma stelleri</i>	9
<i>Cryptotaenia canadensis</i>	4
<i>Cuscuta campestris</i>	no value
<i>Cuscuta cephalanthi</i>	no value
<i>Cuscuta coryli</i>	no value
<i>Cuscuta glomerata</i>	no value
<i>Cuscuta gronovii</i>	5
<i>Cuscuta gronovii</i> var. <i>gronovii</i>	5
<i>Cuscuta gronovii</i> var. <i>latiflora</i>	8
<i>Cuscuta indecora</i>	no value
<i>Cuscuta indecora</i> var. <i>indecora</i>	no value
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	no value
<i>Cuscuta pentagona</i>	4
<i>Cuscuta polygonorum</i>	no value
<i>Cuscuta umbrosa</i>	no value
<i>Cyclachaena xanthiifolia</i>	2
<i>Cycloloma atriplicifolium</i>	3
<i>Cynoglossum virginianum</i> var. <i>boreale</i>	no value*
<i>Cyperus xmesochorus</i>	no value
<i>Cyperus acuminatus</i>	9
<i>Cyperus bipartitus</i>	4

MN DNR Official Name	EBF C-value
<i>Cyperus diandrus</i>	6
<i>Cyperus engelmannii</i>	5
<i>Cyperus erythrorhizos</i>	6*
<i>Cyperus lupulinus</i>	7
<i>Cyperus lupulinus subsp. lupulinus</i>	8*
<i>Cyperus lupulinus subsp. macilentus</i>	7*
<i>Cyperus odoratus s.s.</i>	4
<i>Cyperus schweinitzii</i>	6
<i>Cyperus squarrosus</i>	5
<i>Cyperus strigosus</i>	3
<i>Cyperus subsquarrosus</i>	8*
<i>Cypripedium xandrewsii</i>	no value
<i>Cypripedium acaule</i>	8
<i>Cypripedium arietinum</i>	10
<i>Cypripedium candidum</i>	9
<i>Cypripedium parviflorum</i>	7
<i>Cypripedium parviflorum var. makasin</i>	8
<i>Cypripedium parviflorum var. pubescens</i>	7
<i>Cypripedium reginae</i>	7
<i>Cystopteris bulbifera</i>	7
<i>Cystopteris fragilis s.s.</i>	7
<i>Cystopteris laurentiana</i>	9
<i>Cystopteris protrusa</i>	8
<i>Cystopteris tennesseensis</i>	8
<i>Cystopteris tenuis</i>	6
<i>Dalea candida</i>	8
<i>Dalea candida var. candida</i>	8
<i>Dalea leporina</i>	3
<i>Dalea purpurea var. purpurea</i>	7
<i>Dalea villosa var. villosa</i>	9
<i>Danthonia spicata</i>	6
<i>Dasiphora fruticosa</i>	8
<i>Decodon verticillatus</i>	8
<i>Delphinium carolinianum subsp. virescens</i>	7
<i>Dendrolycopodium dendroideum</i>	6
<i>Dendrolycopodium hickeyi</i>	7
<i>Dendrolycopodium obscurum</i>	8

MN DNR Official Name	EBF C-value
<i>Deparia acrostichoides</i>	9
<i>Deschampsia cespitosa subsp. cespitosa</i>	8
<i>Descurainia pinnata subsp. brachycarpa</i>	no value*
<i>Desmanthus illinoensis</i>	9
<i>Desmodium canadense</i>	5
<i>Desmodium cuspidatum</i>	8
<i>Desmodium illinoense</i>	7
<i>Diarrhena obovata</i>	9
<i>Dicentra canadensis</i>	9
<i>Dicentra cucullaria</i>	6
<i>Dichanthelium acuminatum</i>	4
<i>Dichanthelium acuminatum subsp. fasciculatum</i>	5
<i>Dichanthelium acuminatum subsp. implicatum</i>	5
<i>Dichanthelium acuminatum subsp. lindheimeri</i>	5
<i>Dichanthelium boreale</i>	7
<i>Dichanthelium depauperatum</i>	7
<i>Dichanthelium latifolium</i>	8
<i>Dichanthelium leibergii</i>	7
<i>Dichanthelium linearifolium</i>	7
<i>Dichanthelium oligosanthos</i>	6
<i>Dichanthelium oligosanthos subsp. oligosanthos</i>	6
<i>Dichanthelium oligosanthos subsp. scribnerianum</i>	6
<i>Dichanthelium ovale</i>	6
<i>Dichanthelium ovale subsp. praecocius</i>	6
<i>Dichanthelium ovale subsp. pseudopubescens</i>	6
<i>Dichanthelium ovale subsp. villosissimum</i>	6
<i>Dichanthelium perlongum</i>	7
<i>Dichanthelium wilcoxianum</i>	7
<i>Dichanthelium xanthophyllum</i>	7
<i>Diervilla lonicera</i>	6
<i>Digitaria cognata</i>	5*
<i>Dioscorea villosa</i>	5

MN DNR Official Name	EBF C-value
<i>Diphasiastrum xhabereri</i>	no value
<i>Diphasiastrum complanatum</i>	8
<i>Diphasiastrum digitatum</i>	6
<i>Diphasiastrum tristachyum</i>	8
<i>Dirca palustris</i>	7
<i>Distichlis spicata</i>	no value*
<i>Dodecatheon amethystinum</i>	9
<i>Dodecatheon meadia</i>	10
<i>Doellingeria umbellata</i>	5
<i>Doellingeria umbellata</i> var. <i>pubens</i>	5
<i>Doellingeria umbellata</i> var. <i>umbellata</i>	5
<i>Draba arabisans</i>	9
<i>Draba nemorosa</i>	4
<i>Draba reptans</i>	5
<i>Dracocephalum parviflorum</i>	6*
<i>Drosera anglica</i>	10
<i>Drosera intermedia</i>	9
<i>Drosera linearis</i>	10
<i>Drosera rotundifolia</i>	8
<i>Drymocallis arguta</i>	7
<i>Dryopteris xboottii</i>	no value
<i>Dryopteris xtriploidea</i>	no value
<i>Dryopteris xuliginosa</i>	no value
<i>Dryopteris carthusiana</i>	4
<i>Dryopteris cristata</i>	6
<i>Dryopteris expansa</i>	10
<i>Dryopteris filix-mas</i>	10
<i>Dryopteris goldieana</i>	8
<i>Dryopteris intermedia</i>	7
<i>Dryopteris marginalis</i>	9
<i>Dulichium arundinaceum</i> var. <i>arundinaceum</i>	7
<i>Dyssodia papposa</i>	1
<i>Echinacea angustifolia</i>	8
<i>Echinochloa muricata</i> var. <i>microstachya</i>	3
<i>Echinochloa muricata</i> var. <i>muricata</i>	2
<i>Echinochloa walteri</i>	6
<i>Echinocystis lobata</i>	2

MN DNR Official Name	EBF C-value
<i>Eclipta prostrata</i>	6
<i>Elaeagnus commutata</i>	6
<i>Elatine minima</i>	no value
<i>Eleocharis acicularis</i>	5
<i>Eleocharis compressa</i>	6
<i>Eleocharis compressa</i> var. <i>acutisquamata</i>	5
<i>Eleocharis compressa</i> var. <i>compressa</i>	5
<i>Eleocharis elliptica</i>	7
<i>Eleocharis engelmannii</i>	7
<i>Eleocharis erythropoda</i>	4
<i>Eleocharis intermedia</i>	6
<i>Eleocharis obtusa</i>	5
<i>Eleocharis ovata</i>	5
<i>Eleocharis palustris</i>	4
<i>Eleocharis quinqueflora</i>	8
<i>Eleocharis rostellata</i>	10
<i>Eleocharis wolfii</i>	8
<i>Ellisia nyctelea</i>	3
<i>Elodea canadensis</i>	5
<i>Elodea nuttallii</i>	7
<i>Elymus canadensis</i> var. <i>canadensis</i>	5
<i>Elymus curvatus</i>	7
<i>Elymus diversiglumis</i>	6
<i>Elymus hystrix</i>	6
<i>Elymus riparius</i>	5
<i>Elymus trachycaulus</i>	6
<i>Elymus trachycaulus</i> subsp. <i>subsecundus</i>	6
<i>Elymus trachycaulus</i> subsp. <i>trachycaulus</i>	6
<i>Elymus villosus</i>	6
<i>Elymus virginicus</i>	5
<i>Elymus virginicus</i> var. <i>jejunos</i>	6
<i>Elymus virginicus</i> var. <i>virginicus</i>	6
<i>Elymus wiegandii</i>	6
<i>Enemion biternatum</i>	7
<i>Epilobium xwisconsinense</i>	no value
<i>Epilobium ciliatum</i>	4

MN DNR Official Name	EBF C-value
<i>Epilobium ciliatum</i> subsp. <i>ciliatum</i>	6
<i>Epilobium ciliatum</i> subsp. <i>glandulosum</i>	6
<i>Epilobium coloratum</i>	4
<i>Epilobium densum</i>	7
<i>Epilobium leptophyllum</i>	6
<i>Epilobium palustre</i>	8
<i>Equisetum x ferrissii</i>	3*
<i>Equisetum x litorale</i>	no value
<i>Equisetum x nelsonii</i>	no value
<i>Equisetum arvense</i>	2
<i>Equisetum fluviatile</i>	5
<i>Equisetum laevigatum</i>	5
<i>Equisetum palustre</i>	8
<i>Equisetum praealtum</i>	3
<i>Equisetum pratense</i>	5
<i>Equisetum scirpoides</i>	7
<i>Equisetum sylvaticum</i>	5
<i>Equisetum variegatum</i> subsp. <i>variegatum</i>	5
<i>Eragrostis frankii</i>	6
<i>Eragrostis hypnoides</i>	4
<i>Eragrostis pectinacea</i> var. <i>pectinacea</i>	2
<i>Eragrostis spectabilis</i>	4
<i>Erechtites hieraciifolius</i> var. <i>hieraciifolius</i>	2
<i>Erigeron annuus</i>	3
<i>Erigeron glabellus</i> var. <i>pubescens</i>	6
<i>Erigeron philadelphicus</i> var. <i>philadelphicus</i>	3
<i>Erigeron pulchellus</i> var. <i>pulchellus</i>	6
<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	no value*
<i>Erigeron strigosus</i>	3
<i>Erigeron strigosus</i> var. <i>septentrionalis</i>	4
<i>Erigeron strigosus</i> var. <i>strigosus</i>	4
<i>Eriocaulon aquaticum</i>	8

MN DNR Official Name	EBF C-value
<i>Eriophorum angustifolium</i> subsp. <i>angustifolium</i>	7
<i>Eriophorum gracile</i>	8
<i>Eriophorum russeolum</i> subsp. <i>leiocarpum</i>	8
<i>Eriophorum tenellum</i>	8
<i>Eriophorum vaginatum</i>	8
<i>Eriophorum virginicum</i>	8
<i>Eriophorum viridicarinarum</i>	9
<i>Eryngium yuccifolium</i> var. <i>yuccifolium</i>	8
<i>Erysimum asperum</i>	no value
<i>Erysimum inconspicuum</i>	no value
<i>Erythranthe geyeri</i>	8
<i>Erythronium albidum</i>	6
<i>Erythronium albidum</i> x <i>propullans</i>	no value
<i>Erythronium americanum</i> subsp. <i>americanum</i>	8
<i>Erythronium propullans</i>	10
<i>Euonymus atropurpureus</i>	7
<i>Eupatorium altissimum</i>	6
<i>Eupatorium perfoliatum</i>	5
<i>Eupatorium sessilifolium</i>	9
<i>Euphorbia corollata</i>	6
<i>Euphorbia cyathophora</i>	8*
<i>Euphorbia dentata</i>	4
<i>Euphorbia glyptosperma</i>	2
<i>Euphorbia hexagona</i>	no value
<i>Euphorbia maculata</i>	2
<i>Euphorbia marginata</i>	5
<i>Euphorbia missurica</i>	no value
<i>Euphorbia nutans</i>	5*
<i>Euphorbia spathulata</i>	6
<i>Eurybia macrophylla</i>	4
<i>Euthamia graminifolia</i>	5
<i>Euthamia gymnospermoides</i>	7
<i>Eutrochium maculatum</i>	4
<i>Eutrochium maculatum</i> var. <i>bruneri</i>	no value
<i>Eutrochium maculatum</i> var. <i>maculatum</i>	no value
<i>Eutrochium purpureum</i>	6

MN DNR Official Name	EBF C-value
<i>Eutrochium purpureum</i> var. <i>holzingeri</i>	6
<i>Fallopia cilinodis</i>	3
<i>Fallopia scandens</i>	3
<i>Festuca saximontana</i> var. <i>saximontana</i>	6
<i>Festuca subverticillata</i>	5
<i>Fimbristylis autumnalis</i>	8
<i>Floerkea proserpinacoides</i>	9
<i>Fragaria vesca</i> subsp. <i>americana</i>	4
<i>Fragaria virginiana</i>	3
<i>Fraxinus americana</i>	7
<i>Fraxinus nigra</i>	6
<i>Fraxinus pennsylvanica</i>	3
<i>Froelichia floridana</i>	8
<i>Gaillardia aristata</i>	8
<i>Galearis spectabilis</i>	7
<i>Galium aparine</i>	3
<i>Galium asprellum</i>	5
<i>Galium boreale</i>	5
<i>Galium circaeazans</i> var. <i>hypomalacum</i>	7
<i>Galium concinnum</i>	5
<i>Galium labradoricum</i>	7
<i>Galium obtusum</i> var. <i>obtusum</i>	5
<i>Galium tinctorium</i> var. <i>tinctorium</i>	5*
<i>Galium trifidum</i> var. <i>trifidum</i>	5*
<i>Galium triflorum</i> var. <i>triflorum</i>	4
<i>Gaultheria hispidula</i>	9
<i>Gaultheria procumbens</i>	7
<i>Gaylussacia baccata</i>	8
<i>Gentiana</i> × <i>billingtonii</i>	no value
<i>Gentiana andrewsii</i>	6
<i>Gentiana andrewsii</i> var. <i>andrewsii</i>	7
<i>Gentiana andrewsii</i> var. <i>dakotica</i>	7
<i>Gentiana flavida</i>	7
<i>Gentiana puberulenta</i>	9

MN DNR Official Name	EBF C-value
<i>Gentiana rubricaulis</i>	8
<i>Gentianella quinquefolia</i> subsp. <i>occidentalis</i>	7
<i>Gentianopsis crinita</i>	7
<i>Gentianopsis virgata</i>	8
<i>Gentianopsis virgata</i> subsp. <i>macounii</i>	8
<i>Gentianopsis virgata</i> subsp. <i>virgata</i>	8
<i>Geranium bicknellii</i>	4
<i>Geranium carolinianum</i>	no value*
<i>Geranium maculatum</i>	4
<i>Geum aleppicum</i>	4
<i>Geum canadense</i>	4
<i>Geum laciniatum</i>	5
<i>Geum macrophyllum</i> var. <i>perincisum</i>	7
<i>Geum rivale</i>	6
<i>Geum triflorum</i> var. <i>triflorum</i>	7
<i>Gleditsia triacanthos</i>	5
<i>Glyceria borealis</i>	7
<i>Glyceria canadensis</i> var. <i>canadensis</i>	7
<i>Glyceria grandis</i> var. <i>grandis</i>	5*
<i>Glyceria striata</i>	5
<i>Glycyrrhiza lepidota</i>	4
<i>Goodyera pubescens</i>	7
<i>Goodyera repens</i>	9
<i>Goodyera tessellata</i>	8
<i>Gratiola neglecta</i>	3
<i>Grindelia hirsutula</i>	no value
<i>Grindelia squarrosa</i>	2
<i>Gymnocarpium</i> × <i>intermedium</i>	no value
<i>Gymnocarpium dryopteris</i>	6
<i>Gymnocarpium robertianum</i>	10
<i>Gymnocladus dioica</i>	8
<i>Hackelia deflexa</i> var. <i>americana</i>	3*
<i>Hackelia virginiana</i>	2
<i>Hamamelis virginiana</i>	8
<i>Hasteola suaveolens</i>	8
<i>Hedeoma hispida</i>	5*

MN DNR Official Name	EBF C-value
<i>Hedeoma pulegioides</i>	no value
<i>Hedyotis longifolia</i>	6
<i>Helenium autumnale</i>	5
<i>Helianthus xlaetiflorus</i>	no value
<i>Helianthus annuus</i>	2
<i>Helianthus giganteus s.s.</i>	4
<i>Helianthus grosseserratus</i>	4
<i>Helianthus hirsutus</i>	5
<i>Helianthus maximiliani</i>	5
<i>Helianthus occidentalis subsp. occidentalis</i>	7
<i>Helianthus pauciflorus</i>	6
<i>Helianthus pauciflorus subsp. pauciflorus</i>	8
<i>Helianthus pauciflorus subsp. subrhomboideus</i>	8
<i>Helianthus petiolaris subsp. petiolaris</i>	3
<i>Helianthus strumosus</i>	4
<i>Helianthus tuberosus</i>	4
<i>Heliopsis helianthoides var. scabra</i>	4
<i>Heracleum maximum</i>	5
<i>Hesperostipa comata subsp. comata</i>	8*
<i>Hesperostipa spartea</i>	7
<i>Heteranthera dubia</i>	5
<i>Heterotheca villosa s.s.</i>	6
<i>Heterotheca villosa var. ballardii</i>	4
<i>Heterotheca villosa var. minor</i>	4
<i>Heterotheca villosa var. villosa</i>	4
<i>Heuchera richardsonii</i>	6
<i>Hibiscus laevis</i>	7
<i>Hieracium longipilum</i>	7
<i>Hieracium scabrum</i>	5
<i>Hieracium umbellatum s.l.</i>	5
<i>Hippuris vulgaris</i>	7
<i>Homalosorus pycnocarpus</i>	9
<i>Hordeum jubatum subsp. jubatum</i>	2

MN DNR Official Name	EBF C-value
<i>Hordeum pusillum</i>	5
<i>Hudsonia tomentosa</i>	10
<i>Humulus lupulus</i>	3
<i>Humulus lupulus var. lupuloides</i>	3
<i>Huperzia lucidula</i>	6
<i>Huperzia porophila</i>	9
<i>Hybanthus concolor</i>	10
<i>Hydrastis canadensis</i>	10
<i>Hydrocotyle americana</i>	9
<i>Hydrophyllum appendiculatum</i>	7
<i>Hydrophyllum virginianum var. virginianum</i>	4
<i>Hylodesmum glutinosum</i>	5
<i>Hylodesmum nudiflorum</i>	8
<i>Hypericum ascyron subsp. pyramidatum</i>	5
<i>Hypericum boreale</i>	7
<i>Hypericum majus</i>	4
<i>Hypericum punctatum</i>	5
<i>Hypoxis hirsuta</i>	7
<i>Ilex verticillata var. verticillata</i>	6
<i>Impatiens capensis</i>	3
<i>Impatiens pallida</i>	4
<i>Iodanthus pinnatifidus</i>	9
<i>Iris versicolor</i>	5
<i>Iris virginica</i>	5
<i>Isanthus brachiatus</i>	8
<i>Isoetes echinospora</i>	8
<i>Jeffersonia diphylla</i>	9
<i>Juglans cinerea</i>	6
<i>Juglans nigra</i>	4
<i>Juncus alpinoarticulatus</i>	7
<i>Juncus antheratus</i>	6
<i>Juncus articulatus</i>	9
<i>Juncus balticus subsp. littoralis</i>	4
<i>Juncus brevicaudatus</i>	5
<i>Juncus bufonius</i>	3
<i>Juncus canadensis</i>	7
<i>Juncus dudleyi</i>	3

MN DNR Official Name	EBF C-value
<i>Juncus greenii</i>	7
<i>Juncus interior</i>	6
<i>Juncus marginatus</i>	9
<i>Juncus nodosus</i>	5
<i>Juncus pelocarpus</i>	7
<i>Juncus tenuis</i>	3
<i>Juncus torreyi</i>	6
<i>Juncus vaseyi</i>	5
<i>Juniperus communis</i> var. <i>depressa</i>	6
<i>Juniperus horizontalis</i>	8
<i>Juniperus virginiana</i> var. <i>virginiana</i>	2
<i>Kalmia polifolia</i>	9
<i>Koeleria macrantha</i>	7
<i>Krigia biflora</i>	6
<i>Lactuca biennis</i>	4
<i>Lactuca canadensis</i>	4
<i>Lactuca floridana</i>	7
<i>Lactuca ludoviciana</i>	5
<i>Laportea canadensis</i>	4
<i>Larix laricina</i>	7
<i>Lathyrus ochroleucus</i>	5
<i>Lathyrus palustris</i>	6
<i>Lathyrus venosus</i> var. <i>intonsus</i>	5
<i>Lechea stricta</i>	6
<i>Lechea tenuifolia</i>	8*
<i>Leersia lenticularis</i>	8
<i>Leersia oryzoides</i>	5
<i>Leersia virginica</i>	5
<i>Lemna minor</i> s.s.	2
<i>Lemna obscura</i>	no value
<i>Lemna perpusilla</i>	no value
<i>Lemna trisulca</i>	5
<i>Lemna turionifera</i>	3
<i>Lepidium densiflorum</i>	1
<i>Leptochloa fusca</i> subsp. <i>fascicularis</i>	1
<i>Lespedeza capitata</i>	5
<i>Lespedeza leptostachya</i>	8
<i>Leucophysalis grandiflora</i>	no value*

MN DNR Official Name	EBF C-value
<i>Leucospora multifida</i>	9
<i>Liatris aspera</i>	7
<i>Liatris cylindracea</i>	8
<i>Liatris ligulistylis</i>	7
<i>Liatris punctata</i> var. <i>punctata</i>	8
<i>Liatris pycnostachya</i> var. <i>pycnostachya</i>	7
<i>Lilium michiganense</i>	6
<i>Lilium philadelphicum</i>	8
<i>Lindernia dubia</i>	5*
<i>Linnaea borealis</i> var. <i>longiflora</i>	8
<i>Linum rigidum</i>	7
<i>Linum rigidum</i> var. <i>simulans</i>	8
<i>Linum sulcatum</i>	7
<i>Liparis liliifolia</i>	6
<i>Liparis loeselii</i>	6
<i>Listera cordata</i> var. <i>cordata</i>	9
<i>Lithospermum canescens</i>	7
<i>Lithospermum caroliniense</i> var. <i>croceum</i>	8
<i>Lithospermum incisum</i>	8
<i>Lithospermum latifolium</i>	8
<i>Lobelia cardinalis</i> var. <i>cardinalis</i>	7
<i>Lobelia inflata</i>	4
<i>Lobelia kalmii</i>	8
<i>Lobelia siphilitica</i>	5
<i>Lobelia siphilitica</i> var. <i>ludoviciana</i>	5
<i>Lobelia siphilitica</i> var. <i>siphilitica</i>	5
<i>Lobelia spicata</i>	6
<i>Lobelia spicata</i> var. <i>hirtella</i>	7
<i>Lobelia spicata</i> var. <i>spicata</i>	7
<i>Lomatium orientale</i>	9
<i>Lonicera caerulea</i> var. <i>villosa</i>	7
<i>Lonicera canadensis</i>	6
<i>Lonicera dioica</i>	5
<i>Lonicera dioica</i> var. <i>dioica</i>	6
<i>Lonicera dioica</i> var. <i>glaucescens</i>	5
<i>Lonicera hirsuta</i>	5

MN DNR Official Name	EBF C-value
<i>Lonicera oblongifolia</i>	7
<i>Lonicera reticulata</i> s.s.	6*
<i>Ludwigia palustris</i>	6
<i>Ludwigia polycarpa</i>	6
<i>Lupinus perennis</i>	8
<i>Luzula acuminata</i> var. <i>acuminata</i>	6
<i>Luzula multiflora</i> subsp. <i>multiflora</i>	6
<i>Lycopodiella inundata</i>	9
<i>Lycopodium clavatum</i>	6
<i>Lycopodium lagopus</i>	7
<i>Lycopus xsherardii</i>	no value
<i>Lycopus americanus</i>	5
<i>Lycopus asper</i>	5
<i>Lycopus uniflorus</i>	5
<i>Lycopus virginicus</i>	6
<i>Lygodesmia juncea</i>	7
<i>Lysimachia xcommixta</i>	no value
<i>Lysimachia ciliata</i>	5
<i>Lysimachia hybrida</i>	6
<i>Lysimachia quadriflora</i>	7
<i>Lysimachia terrestris</i>	6
<i>Lysimachia thyrsoflora</i>	5
<i>Lythrum alatum</i> var. <i>alatum</i>	7
<i>Maianthemum canadense</i>	4
<i>Maianthemum racemosum</i> subsp. <i>racemosum</i>	5
<i>Maianthemum stellatum</i>	5
<i>Maianthemum trifolium</i>	8
<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	9
<i>Malaxis unifolia</i>	7
<i>Malus ioensis</i>	5
<i>Matteuccia struthiopteris</i> var. <i>pennsylvanica</i>	4
<i>Melampyrum lineare</i>	7
<i>Melampyrum lineare</i> var. <i>americanum</i>	7
<i>Melica nitens</i>	9
<i>Menispermum canadense</i>	5
<i>Mentha arvensis</i> var. <i>canadensis</i>	4

MN DNR Official Name	EBF C-value
<i>Menyanthes trifoliata</i>	8
<i>Mertensia paniculata</i>	8
<i>Mertensia virginica</i>	6
<i>Micranthes pennsylvanica</i>	7
<i>Milium effusum</i> var. <i>cisatlanticum</i>	6
<i>Mimulus ringens</i> var. <i>ringens</i>	5
<i>Minuartia dawsonensis</i>	9
<i>Mirabilis albida</i>	6
<i>Mirabilis linearis</i> var. <i>linearis</i>	no value
<i>Mirabilis nyctaginea</i>	3
<i>Mitchella repens</i>	7
<i>Mitella diphylla</i>	6
<i>Mitella nuda</i>	7
<i>Moehringia lateriflora</i>	6
<i>Mollugo verticillata</i>	1
<i>Monarda fistulosa</i>	4
<i>Monarda fistulosa</i> var. <i>fistulosa</i>	4
<i>Monarda fistulosa</i> var. <i>menthaefolia</i>	4
<i>Monarda punctata</i> var. <i>villicaulis</i>	7
<i>Moneses uniflora</i>	8
<i>Monotropa hypopitys</i>	7
<i>Monotropa uniflora</i>	6
<i>Montia chamissoi</i>	10
<i>Morus rubra</i>	10
<i>Muhlenbergia cuspidata</i>	8
<i>Muhlenbergia frondosa</i>	5
<i>Muhlenbergia glomerata</i>	7
<i>Muhlenbergia mexicana</i>	5
<i>Muhlenbergia mexicana</i> var. <i>filiformis</i>	5
<i>Muhlenbergia mexicana</i> var. <i>mexicana</i>	5
<i>Muhlenbergia racemosa</i>	6
<i>Muhlenbergia richardsonis</i>	8
<i>Muhlenbergia schreberi</i>	3
<i>Mulgedium pulchellum</i>	6
<i>Myosotis laxa</i>	6
<i>Myosotis verna</i>	7
<i>Myosurus minimus</i>	8

MN DNR Official Name	EBF C-value
<i>Myriophyllum sibiricum</i>	7
<i>Myriophyllum tenellum</i>	9
<i>Myriophyllum verticillatum</i>	8
<i>Myriopteris gracilis</i>	9
<i>Najas flexilis</i>	6
<i>Najas gracillima</i>	8
<i>Najas guadalupensis s.l.</i>	6
<i>Najas guadalupensis subsp. guadalupensis</i>	no value
<i>Najas guadalupensis subsp. olivacea</i>	no value
<i>Najas marina</i>	no value
<i>Napaea dioica</i>	7
<i>Nassella viridula</i>	8
<i>Nelumbo lutea</i>	7
<i>Nemopanthus mucronatus</i>	7
<i>Nothocalais cuspidata</i>	8
<i>Nuphar rubrodisca</i>	no value*
<i>Nuphar variegata</i>	5
<i>Nuttallanthus canadensis</i>	7
<i>Nymphaea odorata s.l.</i>	6
<i>Nymphaea odorata subsp. odorata</i>	6
<i>Nymphaea odorata subsp. tuberosa</i>	4
<i>Oenothera biennis s.s.</i>	2
<i>Oenothera clelandii</i>	7
<i>Oenothera gaura</i>	4
<i>Oenothera laciniata</i>	7
<i>Oenothera nuttallii</i>	8
<i>Oenothera oakesiana</i>	5
<i>Oenothera parviflora</i>	4
<i>Oenothera perennis</i>	7
<i>Oenothera rhombipetala</i>	8
<i>Oenothera serrulata</i>	7
<i>Oenothera suffrutescens</i>	7
<i>Oenothera villosa subsp. strigosa</i>	5
<i>Oenothera villosa subsp. villosa</i>	4
<i>Onoclea sensibilis</i>	4
<i>Onosmodium molle</i>	5

MN DNR Official Name	EBF C-value
<i>Onosmodium molle</i> var. <i>hispidissimum</i>	3
<i>Onosmodium molle</i> var. <i>occidentale</i>	3
<i>Ophioglossum pusillum</i>	8
<i>Opuntia fragilis</i>	9
<i>Orobanche fasciculata</i>	9
<i>Orthilia secunda</i>	7
<i>Orthocarpus luteus</i>	7
<i>Oryzopsis asperifolia</i>	5
<i>Osmorhiza claytonii</i>	5
<i>Osmorhiza longistylis</i>	5
<i>Osmunda regalis</i> var. <i>spectabilis</i>	7
<i>Osmundastrum cinnamomeum</i>	7
<i>Ostrya virginiana</i>	5
<i>Oxalis dillenii</i>	1
<i>Oxalis stricta</i>	1
<i>Oxalis violacea</i>	6
<i>Oxypolis rigidior</i>	8
<i>Oxytropis lambertii</i> var. <i>lambertii</i>	8
<i>Packera aurea</i>	6
<i>Packera cana</i>	9
<i>Packera paupercula</i>	5
<i>Packera plattensis</i>	6
<i>Packera pseud aurea</i> var. <i>semicordata</i>	6
<i>Panax quinquefolius</i>	8
<i>Panax trifolius</i>	8
<i>Panicum capillare</i> subsp. <i>capillare</i>	1
<i>Panicum dichotomiflorum</i> subsp. <i>dichotomiflorum</i>	2
<i>Panicum philadelphicum</i> subsp. <i>philadelphicum</i>	7
<i>Panicum virgatum</i>	4
<i>Parietaria pensylvanica</i>	2
<i>Parnassia glauca</i>	9
<i>Parnassia palustris</i>	9
<i>Paronychia canadensis</i>	10

MN DNR Official Name	EBF C-value
<i>Paronychia fastigiata</i> var. <i>fastigiata</i>	10
<i>Parthenium integrifolium</i>	9
<i>Parthenocissus quinquefolia</i>	5*
<i>Parthenocissus vitacea</i>	3
<i>Pascopyrum smithii</i>	6
<i>Paspalum setaceum</i>	7
<i>Paspalum setaceum</i> var. <i>muhlenbergii</i>	7*
<i>Paspalum setaceum</i> var. <i>stramineum</i>	7*
<i>Pedicularis canadensis</i>	6
<i>Pedicularis lanceolata</i>	7
<i>Pedimelum argophyllum</i>	7
<i>Pedimelum esculentum</i>	8
<i>Pedimelum tenuiflorum</i>	9
<i>Pellaea atropurpurea</i>	10
<i>Pellaea glabella</i> subsp. <i>glabella</i>	9
<i>Penstemon albidus</i>	5
<i>Penstemon digitalis</i>	6
<i>Penstemon gracilis</i>	7
<i>Penstemon grandiflorus</i>	6
<i>Penstemon pallidus</i>	8
<i>Penthorum sedoides</i>	3
<i>Persicaria amphibia</i>	4
<i>Persicaria arifolia</i>	8
<i>Persicaria hydropiperoides</i>	4
<i>Persicaria lapathifolia</i>	3
<i>Persicaria pennsylvanica</i>	3
<i>Persicaria punctata</i>	4
<i>Persicaria sagittata</i>	4
<i>Persicaria virginiana</i>	5
<i>Petasites frigidus</i> var. <i>xvitifolius</i>	6
<i>Petasites frigidus</i> var. <i>sagittatus</i>	7
<i>Phegopteris connectilis</i>	8
<i>Phegopteris hexagonoptera</i>	10
<i>Phemeranthus parviflorus</i>	9
<i>Phemeranthus rugospermus</i>	9
<i>Phlox divaricata</i> var. <i>laphamii</i>	6
<i>Phlox maculata</i>	8

MN DNR Official Name	EBF C-value
<i>Phlox pilosa</i> var. <i>fulgida</i>	7
<i>Phragmites australis</i>	3
<i>Phragmites australis</i> subsp. <i>americanus</i>	3
<i>Phyla lanceolata</i>	5
<i>Physalis heterophylla</i>	4
<i>Physalis virginiana</i>	4
<i>Physaria ludoviciana</i>	10
<i>Physocarpus intermedius</i>	7
<i>Physocarpus opulifolius</i> s.s.	7
<i>Physostegia virginiana</i> var. <i>virginiana</i>	6
<i>Picea glauca</i>	7
<i>Picea mariana</i>	8
<i>Pilea fontana</i>	4
<i>Pilea pumila</i>	4
<i>Pinus banksiana</i>	7
<i>Pinus resinosa</i>	6
<i>Pinus strobus</i>	6
<i>Piptatherum pungens</i>	7
<i>Piptatherum racemosum</i>	6
<i>Plantago aristata</i>	3
<i>Plantago patagonica</i>	3
<i>Plantago rugelii</i>	1
<i>Platanthera aquilonis</i>	6
<i>Platanthera clavellata</i>	8
<i>Platanthera dilatata</i> var. <i>dilatata</i>	9
<i>Platanthera flava</i> var. <i>herbiola</i>	8
<i>Platanthera hookeri</i>	9
<i>Platanthera huronensis</i>	7
<i>Platanthera lacera</i>	7
<i>Platanthera obtusata</i>	9
<i>Platanthera orbiculata</i>	9
<i>Platanthera praeclara</i>	10
<i>Platanthera psycodes</i>	7
<i>Poa alsodes</i>	5
<i>Poa interior</i>	8
<i>Poa paludigena</i>	10
<i>Poa palustris</i>	4
<i>Poa sylvestris</i>	7*

MN DNR Official Name	EBF C-value
<i>Poa wolfii</i>	10
<i>Podophyllum peltatum</i>	6
<i>Pogonia ophioglossoides</i>	8
<i>Polanisia dodecandra</i>	6
<i>Polanisia dodecandra subsp. dodecandra</i>	no value
<i>Polanisia dodecandra subsp. trachysperma</i>	no value
<i>Polanisia jamesii</i>	10
<i>Polygala cruciata</i>	9
<i>Polygala polygama</i>	7
<i>Polygala sanguinea</i>	7
<i>Polygala senega</i>	7
<i>Polygala verticillata</i>	6
<i>Polygaloides paucifolia</i>	8
<i>Polygonatum biflorum</i>	5
<i>Polygonatum pubescens</i>	6
<i>Polygonella articulata</i>	8
<i>Polygonum achoreum</i>	1
<i>Polygonum aviculare</i>	1
<i>Polygonum aviculare subsp. buxiforme</i>	1
<i>Polygonum erectum</i>	1
<i>Polygonum ramosissimum</i>	no value*
<i>Polygonum ramosissimum subsp. ramosissimum</i>	no value*
<i>Polygonum tenue</i>	8*
<i>Polymnia canadensis</i>	6
<i>Polypodium virginianum</i>	7
<i>Polystichum acrostichoides</i>	10
<i>Polytaenia nuttallii</i>	8
<i>Pontederia cordata</i>	7
<i>Populus xjackii</i>	no value
<i>Populus balsamifera</i>	4
<i>Populus deltoides subsp. monilifera</i>	3
<i>Populus grandidentata</i>	5
<i>Populus tremuloides</i>	3
<i>Potamogeton amplifolius</i>	7
<i>Potamogeton bicupulatus</i>	9
<i>Potamogeton diversifolius s.s.</i>	9
<i>Potamogeton epihydrus</i>	6

MN DNR Official Name	EBF C-value
<i>Potamogeton foliosus subsp. foliosus</i>	7
<i>Potamogeton friesii</i>	no value
<i>Potamogeton gramineus</i>	5
<i>Potamogeton illinoensis</i>	7
<i>Potamogeton natans</i>	6
<i>Potamogeton nodosus</i>	7
<i>Potamogeton obtusifolius</i>	8
<i>Potamogeton praelongus</i>	7
<i>Potamogeton pusillus</i>	6
<i>Potamogeton pusillus subsp. pusillus</i>	no value
<i>Potamogeton pusillus subsp. tenuissimus</i>	no value
<i>Potamogeton richardsonii</i>	5
<i>Potamogeton robbinsii</i>	8
<i>Potamogeton spirillus</i>	6
<i>Potamogeton strictifolius</i>	no value
<i>Potamogeton vaseyi</i>	8
<i>Potamogeton zosteriformis</i>	7
<i>Potentilla bipinnatifida s.s.</i>	no value*
<i>Potentilla norvegica</i>	3
<i>Potentilla pensylvanica s.s.</i>	no value*
<i>Potentilla rivalis</i>	no value*
<i>Potentilla simplex</i>	3
<i>Potentilla supina subsp. paradoxa</i>	4
<i>Prenanthes alba</i>	5
<i>Prenanthes aspera</i>	9
<i>Prenanthes crepidinea</i>	10
<i>Prenanthes racemosa</i>	8
<i>Primula mistassinica</i>	10
<i>Prunus americana</i>	3
<i>Prunus nigra</i>	5
<i>Prunus pensylvanica</i>	5
<i>Prunus pumila</i>	7
<i>Prunus pumila var. besseyi</i>	6
<i>Prunus pumila var. pumila</i>	6
<i>Prunus pumila var. susquehanae</i>	7
<i>Prunus virginiana var. virginiana</i>	4

MN DNR Official Name	EBF C-value
<i>Pseudognaphalium obtusifolium</i>	4
<i>Pteridium aquilinum</i> subsp. <i>latiusculum</i>	4
<i>Pycnanthemum virginianum</i>	5
<i>Pyrola americana</i>	6
<i>Pyrola asarifolia</i> subsp. <i>asarifolia</i>	6
<i>Pyrola chlorantha</i>	7
<i>Pyrola elliptica</i>	6
<i>Pyrola minor</i>	no value
<i>Quercus xbebbiana</i>	no value
<i>Quercus xhawkinsii</i>	no value
<i>Quercus alba</i>	6
<i>Quercus bicolor</i>	9
<i>Quercus bicolor</i> x <i>macrocarpa</i>	no value
<i>Quercus ellipsoidalis</i>	6
<i>Quercus ellipsoidalis</i> x <i>rubra</i>	5
<i>Quercus macrocarpa</i>	5
<i>Quercus muhlenbergii</i>	10
<i>Quercus rubra</i>	6
<i>Quercus velutina</i>	7
<i>Ranunculus abortivus</i>	3*
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	6
<i>Ranunculus cymbalaria</i>	no value*
<i>Ranunculus fascicularis</i>	8
<i>Ranunculus flabellaris</i>	5
<i>Ranunculus flammula</i>	6
<i>Ranunculus flammula</i> var. <i>ovalis</i>	5
<i>Ranunculus flammula</i> var. <i>reptans</i>	5
<i>Ranunculus gmelinii</i>	7
<i>Ranunculus hispidus</i>	5
<i>Ranunculus hispidus</i> var. <i>caricetorum</i>	5
<i>Ranunculus hispidus</i> var. <i>nitidus</i>	4
<i>Ranunculus pensylvanicus</i>	3
<i>Ranunculus recurvatus</i> var. <i>recurvatus</i>	4

MN DNR Official Name	EBF C-value
<i>Ranunculus rhomboideus</i>	7
<i>Ranunculus sceleratus</i>	3
<i>Ranunculus sceleratus</i> var. <i>multifidus</i>	2
<i>Ranunculus sceleratus</i> var. <i>sceleratus</i>	1
<i>Ratibida columnifera</i>	6
<i>Ratibida pinnata</i>	6
<i>Rhamnus alnifolia</i>	7
<i>Rhodiola integrifolia</i> subsp. <i>leedyi</i>	10
<i>Rhododendron groenlandicum</i>	8
<i>Rhus x borealis</i>	no value
<i>Rhus glabra</i>	3
<i>Rhus typhina</i>	3
<i>Rhynchospora alba</i>	9
<i>Rhynchospora capillacea</i>	10
<i>Ribes americanum</i>	4
<i>Ribes aureum</i> var. <i>villosum</i>	6
<i>Ribes cynosbati</i>	3
<i>Ribes glandulosum</i>	6
<i>Ribes hirtellum</i>	6
<i>Ribes hudsonianum</i>	8
<i>Ribes lacustre</i>	7
<i>Ribes missouriense</i>	3
<i>Ribes oxyacanthoides</i> var. <i>oxyacanthoides</i>	7*
<i>Ribes triste</i>	6
<i>Rorippa curvipes</i>	5
<i>Rorippa palustris</i>	3
<i>Rorippa palustris</i> subsp. <i>hispida</i>	2
<i>Rorippa palustris</i> subsp. <i>palustris</i>	2
<i>Rorippa sessiliflora</i>	7
<i>Rorippa sinuata</i>	no value
<i>Rosa x dulcissima</i>	no value
<i>Rosa acicularis</i> subsp. <i>sayi</i>	no value*
<i>Rosa arkansana</i>	4
<i>Rosa blanda</i>	4
<i>Rosa woodsii</i> var. <i>woodsii</i>	4
<i>Rotala ramosior</i>	7

MN DNR Official Name	EBF C-value
<i>Rubus xneglectus</i>	no value
<i>Rubus ablatus</i>	4
<i>Rubus acridens</i>	4
<i>Rubus allegheniensis s.s.</i>	3
<i>Rubus alumnus</i>	4
<i>Rubus dissensus</i>	7
<i>Rubus ferrofluviu</i>	5
<i>Rubus frondosus</i>	4
<i>Rubus fulleri</i>	8
<i>Rubus groutianus</i>	6
<i>Rubus idaeus</i>	3
<i>Rubus idaeus var. strigosus</i>	3
<i>Rubus ithacanus</i>	4
<i>Rubus missouricus</i>	8
<i>Rubus multiflor</i>	6
<i>Rubus occidentalis</i>	3
<i>Rubus plicatifolius</i>	4
<i>Rubus pubescens</i>	4*
<i>Rubus recurvans</i>	4
<i>Rubus regionalis</i>	6
<i>Rubus satis</i>	4
<i>Rubus semisetosus</i>	6
<i>Rubus steelei</i>	5
<i>Rubus stipulatus</i>	7
<i>Rubus superioris</i>	6
<i>Rubus uniformis</i>	5
<i>Rubus vermontanus s.s.</i>	6
<i>Rubus wheeleri</i>	6
<i>Rubus wisconsinensis</i>	5
<i>Rudbeckia hirta var. pulcherrima</i>	3
<i>Rudbeckia laciniata var. laciniata</i>	4
<i>Rudbeckia triloba var. triloba</i>	5
<i>Rumex altissimus</i>	1
<i>Rumex britannica</i>	5
<i>Rumex fueginus</i>	6*
<i>Rumex triangulivalvis</i>	1
<i>Rumex verticillatus</i>	no value
<i>Ruppia cirrhosa</i>	no value
<i>Sagittaria brevirostra</i>	10*

MN DNR Official Name	EBF C-value
<i>Sagittaria calycina var. calycina</i>	7
<i>Sagittaria cristata</i>	7
<i>Sagittaria cuneata</i>	6
<i>Sagittaria latifolia</i>	4
<i>Sagittaria rigida</i>	6
<i>Salicornia rubra</i>	no value*
<i>Salix amygdaloides</i>	4
<i>Salix bebbiana</i>	5
<i>Salix candida</i>	8
<i>Salix discolor</i>	4
<i>Salix eriocephala s.s.</i>	4
<i>Salix famelica</i>	no value
<i>Salix humilis</i>	7
<i>Salix humilis var. humilis</i>	7
<i>Salix humilis var. tristis</i>	7
<i>Salix interior</i>	3
<i>Salix lucida</i>	6
<i>Salix maccalliana</i>	8
<i>Salix nigra</i>	4
<i>Salix pedicellaris</i>	8
<i>Salix petiolaris</i>	4
<i>Salix planifolia</i>	8
<i>Salix pyrifolia</i>	7
<i>Salix sericea</i>	no value
<i>Salix serissima</i>	7
<i>Sambucus canadensis var. canadensis</i>	4
<i>Sambucus racemosa var. pubens</i>	4
<i>Sanguinaria canadensis</i>	6
<i>Sanicula canadensis</i>	5
<i>Sanicula marilandica</i>	5
<i>Sanicula odorata</i>	4
<i>Sanicula trifoliata</i>	7
<i>Sarracenia purpurea subsp. purpurea</i>	9
<i>Satureja vulgaris</i>	6*
<i>Sceptridium dissectum</i>	5
<i>Sceptridium multifidum</i>	5
<i>Sceptridium oneidense</i>	8
<i>Sceptridium rugulosum</i>	7

MN DNR Official Name	EBF C-value
<i>Scheuchzeria palustris</i>	9
<i>Schizachne purpurascens</i>	5
<i>Schizachyrium scoparium</i> var. <i>scoparium</i>	6
<i>Schoenoplectiella purshiana</i>	7
<i>Schoenoplectiella purshiana</i> var. <i>purshiana</i>	8
<i>Schoenoplectiella smithii</i>	8
<i>Schoenoplectiella smithii</i> var. <i>setosa</i>	8
<i>Schoenoplectiella smithii</i> var. <i>smithii</i>	8
<i>Schoenoplectus acutus</i> × <i>tabernaemontani</i>	5
<i>Schoenoplectus acutus</i> var. <i>acutus</i>	6
<i>Schoenoplectus heterochaetus</i>	6
<i>Schoenoplectus pungens</i>	6
<i>Schoenoplectus subterminalis</i>	8
<i>Schoenoplectus tabernaemontani</i>	5
<i>Schoenoplectus torreyi</i>	7
<i>Scirpus atrocinctus</i>	7
<i>Scirpus atrovirens</i> s.s.	3
<i>Scirpus cyperinus</i> s.s.	4
<i>Scirpus georgianus</i>	no value
<i>Scirpus hattorianus</i>	2
<i>Scirpus microcarpus</i>	5
<i>Scirpus pallidus</i>	5
<i>Scirpus pedicellatus</i>	5
<i>Scirpus pendulus</i>	no value
<i>Scleria triglomerata</i>	9
<i>Scleria verticillata</i>	10
<i>Scolochloa festucacea</i>	8
<i>Scrophularia lanceolata</i>	4
<i>Scrophularia marilandica</i>	4
<i>Scutellaria galericulata</i>	5
<i>Scutellaria lateriflora</i>	5
<i>Scutellaria leonardii</i>	8
<i>Scutellaria ovata</i>	8
<i>Scutellaria ovata</i> var. <i>versicolor</i>	8

MN DNR Official Name	EBF C-value
<i>Scutellaria parvula</i>	7
<i>Selaginella rupestris</i>	8
<i>Senecio integerrimus</i> var. <i>integerrimus</i>	6
<i>Shepherdia argentea</i>	6
<i>Shinnersoseris rostrata</i>	9
<i>Sibbaldiopsis tridentata</i>	9
<i>Sicyos angulatus</i>	4
<i>Silene antirrhina</i>	4
<i>Silene drummondii</i> subsp. <i>drummondii</i>	9
<i>Silene nivea</i>	6
<i>Silene stellata</i>	6
<i>Silphium laciniatum</i>	8
<i>Silphium perfoliatum</i> var. <i>perfoliatum</i>	4
<i>Sisyrinchium campestre</i>	5
<i>Sisyrinchium montanum</i> var. <i>montanum</i>	6
<i>Sisyrinchium mucronatum</i>	7
<i>Sium suave</i>	5
<i>Smilax ecirrhata</i>	5
<i>Smilax herbacea</i>	6
<i>Smilax illinoensis</i>	5
<i>Smilax lasioneura</i>	5
<i>Smilax tamnoides</i>	4
<i>Solanum emulans</i>	3
<i>Solanum rostratum</i>	no value*
<i>Solanum triflorum</i>	no value
<i>Solidago altissima</i>	3
<i>Solidago altissima</i> subsp. <i>altissima</i>	4
<i>Solidago altissima</i> subsp. <i>gilvocanescens</i>	4
<i>Solidago canadensis</i> s.s.	2
<i>Solidago canadensis</i> var. <i>canadensis</i>	1
<i>Solidago canadensis</i> var. <i>hargeri</i>	1
<i>Solidago flexicaulis</i>	5
<i>Solidago gigantea</i>	3
<i>Solidago hispida</i>	7
<i>Solidago juncea</i>	6

MN DNR Official Name	EBF C-value
<i>Solidago missouriensis</i>	6
<i>Solidago nemoralis</i>	5
<i>Solidago nemoralis</i> subsp. <i>decemflora</i>	5
<i>Solidago nemoralis</i> subsp. <i>nemoralis</i>	5
<i>Solidago ptarmicoides</i>	7
<i>Solidago riddellii</i>	8
<i>Solidago rigida</i>	5
<i>Solidago rigida</i> subsp. <i>humilis</i>	4
<i>Solidago rigida</i> subsp. <i>rigida</i>	4
<i>Solidago sciaphila</i>	9
<i>Solidago speciosa</i>	6
<i>Solidago speciosa</i> var. <i>rigidiuscula</i>	7
<i>Solidago speciosa</i> var. <i>speciosa</i>	7
<i>Solidago uliginosa</i>	8
<i>Solidago ulmifolia</i> var. <i>ulmifolia</i>	6
<i>Sorbus americana</i>	8
<i>Sorbus decora</i>	8
<i>Sorghastrum nutans</i>	6
<i>Sparganium americanum</i>	7*
<i>Sparganium androcladum</i>	no value
<i>Sparganium emersum</i> s.l.	6
<i>Sparganium eurycarpum</i>	5
<i>Sparganium fluctuans</i>	6*
<i>Sparganium glomeratum</i>	7
<i>Sparganium natans</i>	8
<i>Spartina pectinata</i>	5
<i>Sphenopholis intermedia</i>	5
<i>Sphenopholis obtusata</i> s.s.	6
<i>Spinulum annotinum</i> s.s.	7
<i>Spiraea alba</i> var. <i>alba</i>	4
<i>Spiraea tomentosa</i> var. <i>rosea</i>	6
<i>Spiranthes cernua</i>	6
<i>Spiranthes lacera</i>	8
<i>Spiranthes lacera</i> var. <i>gracilis</i>	8
<i>Spiranthes magnicamporum</i>	7
<i>Spiranthes romanzoffiana</i>	7
<i>Spirodela polyrrhiza</i>	2

MN DNR Official Name	EBF C-value
<i>Sporobolus compositus</i> var. <i>compositus</i>	5
<i>Sporobolus cryptandrus</i>	6
<i>Sporobolus heterolepis</i>	7
<i>Sporobolus neglectus</i>	4
<i>Sporobolus vaginiflorus</i> var. <i>vaginiflorus</i>	4
<i>Stachys hispida</i>	5
<i>Stachys palustris</i>	4
<i>Stachys palustris</i> var. <i>homotricha</i>	3
<i>Stachys palustris</i> var. <i>pilosa</i>	4
<i>Stachys tenuifolia</i>	6
<i>Staphylea trifolia</i>	7
<i>Stellaria alsine</i>	no value
<i>Stellaria borealis</i> subsp. <i>borealis</i>	no value
<i>Stellaria crassifolia</i>	no value
<i>Stellaria longifolia</i>	4
<i>Streptopus amplexifolius</i>	9
<i>Streptopus lanceolatus</i>	7
<i>Strophostyles helvola</i>	6
<i>Strophostyles leiosperma</i>	6
<i>Stuckenia filiformis</i>	8
<i>Stuckenia filiformis</i> subsp. <i>alpina</i>	no value
<i>Stuckenia filiformis</i> subsp. <i>occidentalis</i>	no value
<i>Stuckenia pectinata</i>	4
<i>Sullivantia sullivantii</i>	10
<i>Symphoricarpos albus</i>	5
<i>Symphoricarpos occidentalis</i>	4
<i>Symphyotrichum boreale</i>	7
<i>Symphyotrichum ciliatum</i>	4
<i>Symphyotrichum ciliolatum</i>	5
<i>Symphyotrichum cordifolium</i>	5
<i>Symphyotrichum drummondii</i> var. <i>drummondii</i>	6
<i>Symphyotrichum ericoides</i>	4
<i>Symphyotrichum ericoides</i> var. <i>ericoides</i>	4
<i>Symphyotrichum falcatum</i> var. <i>commutatum</i>	7

MN DNR Official Name	EBF C-value
<i>Symphyotrichum firmum</i>	5
<i>Symphyotrichum laeve</i>	6
<i>Symphyotrichum laeve</i> var. <i>laeve</i>	7
<i>Symphyotrichum lanceolatum</i>	4
<i>Symphyotrichum lanceolatum</i> var. <i>hesperium</i>	5
<i>Symphyotrichum lanceolatum</i> var. <i>interior</i>	4
<i>Symphyotrichum lanceolatum</i> var. <i>laeve</i>	5
<i>Symphyotrichum lateriflorum</i>	5
<i>Symphyotrichum novae-angliae</i>	5
<i>Symphyotrichum oblongifolium</i>	7
<i>Symphyotrichum ontarionis</i> var. <i>ontarionis</i>	5
<i>Symphyotrichum oolentangiense</i>	6
<i>Symphyotrichum pilosum</i>	3
<i>Symphyotrichum pilosum</i> var. <i>pilosum</i>	5
<i>Symphyotrichum pilosum</i> var. <i>pringlei</i>	5
<i>Symphyotrichum praealtum</i>	4
<i>Symphyotrichum prenanthoides</i>	6
<i>Symphyotrichum puniceum</i> var. <i>puniceum</i>	5
<i>Symphyotrichum sericeum</i>	8
<i>Symphyotrichum shortii</i>	7
<i>Symphyotrichum urophyllum</i>	5
<i>Symplocarpus foetidus</i>	8
<i>Synthyris bullii</i>	8
<i>Taenidia integerrima</i>	7
<i>Taxus canadensis</i>	9
<i>Tephrosia palustris</i>	6
<i>Tephrosia virginiana</i>	8
<i>Teucrium canadense</i>	5
<i>Teucrium canadense</i> var. <i>occidentale</i>	5

MN DNR Official Name	EBF C-value
<i>Teucrium canadense</i> var. <i>virginicum</i>	5
<i>Thalictrum dasycarpum</i>	5
<i>Thalictrum dioicum</i>	6
<i>Thalictrum thalictroides</i>	7
<i>Thalictrum venulosum</i>	7
<i>Thaspium barbinode</i>	10
<i>Thelypteris palustris</i> var. <i>pubescens</i>	5
<i>Thuja occidentalis</i>	8
<i>Tilia americana</i>	5
<i>Torreyochloa pallida</i>	5
<i>Torreyochloa pallida</i> var. <i>fernaldii</i>	5
<i>Toxicodendron radicans</i> var. <i>radicans</i>	5
<i>Toxicodendron radicans</i> var. <i>rydbergii</i>	3
<i>Toxicodendron vernix</i>	7
<i>Tradescantia bracteata</i>	6
<i>Tradescantia occidentalis</i> var. <i>occidentalis</i>	7
<i>Tradescantia ohiensis</i>	7
<i>Triadenum fraseri</i>	7
<i>Triantha glutinosa</i>	9
<i>Trichophorum alpinum</i>	9
<i>Trichophorum cespitosum</i>	9
<i>Trichophorum clintonii</i>	8
<i>Trientalis borealis</i>	6
<i>Triglochin maritima</i>	7
<i>Triglochin palustris</i>	9
<i>Trillium cernuum</i>	6
<i>Trillium flexipes</i>	7
<i>Trillium grandiflorum</i>	7
<i>Trillium nivale</i>	8
<i>Triodanis leptocarpa</i>	no value
<i>Triodanis perfoliata</i>	6
<i>Triosteum aurantiacum</i>	6
<i>Triosteum perfoliatum</i>	6
<i>Triplasis purpurea</i> var. <i>purpurea</i>	9
<i>Tsuga canadensis</i>	10
<i>Turritis glabra</i>	3

MN DNR Official Name	EBF C-value
<i>Typha latifolia</i>	5*
<i>Ulmus americana</i>	5
<i>Ulmus rubra</i>	5
<i>Ulmus thomasii</i>	7
<i>Urtica dioica subsp. gracilis</i>	2
<i>Utricularia cornuta</i>	9
<i>Utricularia geminiscapa</i>	10
<i>Utricularia gibba</i>	8
<i>Utricularia intermedia</i>	6*
<i>Utricularia minor</i>	6*
<i>Utricularia vulgaris</i>	3
<i>Uvularia grandiflora</i>	6
<i>Uvularia sessilifolia</i>	6
<i>Vaccinium angustifolium</i>	6
<i>Vaccinium cespitosum</i>	8
<i>Vaccinium macrocarpon</i>	8
<i>Vaccinium myrtilloides</i>	6
<i>Vaccinium oxycoccos</i>	8
<i>Valeriana edulis var. ciliata</i>	8
<i>Vallisneria americana</i>	6
<i>Verbena xperriana</i>	no value
<i>Verbena bracteata</i>	2
<i>Verbena hastata</i>	4
<i>Verbena simplex</i>	9
<i>Verbena stricta</i>	5
<i>Verbena urticifolia</i>	4
<i>Vernonia fasciculata</i>	5
<i>Veronica americana</i>	6
<i>Veronica catenata</i>	5
<i>Veronica peregrina</i>	2
<i>Veronica scutellata</i>	6
<i>Veronicastrum virginicum</i>	6
<i>Viburnum lentago</i>	5
<i>Viburnum opulus s.l.</i>	5
<i>Viburnum opulus var. americanum</i>	5
<i>Viburnum rafinesquianum</i>	6
<i>Viburnum rafinesquianum var. affine</i>	6
<i>Viburnum rafinesquianum var. rafinesquianum</i>	6
<i>Vicia americana</i>	4*

MN DNR Official Name	EBF C-value
<i>Vicia americana var. americana</i>	no value
<i>Vicia americana var. minor</i>	no value
<i>Viola adunca</i>	7
<i>Viola affinis</i>	no value
<i>Viola blanda</i>	5
<i>Viola canadensis var. rugulosa</i>	6
<i>Viola communis</i>	no value
<i>Viola cucullata</i>	6
<i>Viola labradorica</i>	4
<i>Viola lanceolata</i>	8
<i>Viola macloskeyi</i>	6
<i>Viola missouriensis</i>	no value
<i>Viola nephrophylla</i>	6
<i>Viola pedata var. pedata</i>	8
<i>Viola pedatifida</i>	7
<i>Viola pratincola</i>	no value
<i>Viola pubescens</i>	6
<i>Viola pubescens var. scabriuscula</i>	5
<i>Viola renifolia</i>	7
<i>Viola septentrionalis</i>	no value
<i>Viola sororia s.s.</i>	2
<i>Vitis aestivalis</i>	6*
<i>Vitis riparia</i>	2
<i>Vulpia octoflora</i>	6
<i>Vulpia octoflora var. glauca</i>	no value
<i>Vulpia octoflora var. octoflora</i>	no value
<i>Wolffia borealis</i>	5
<i>Wolffia brasiliensis</i>	6
<i>Wolffia columbiana</i>	5
<i>Woodsia ilvensis</i>	9
<i>Woodsia obtusa subsp. obtusa</i>	9
<i>Woodsia oregana subsp. cathcartiana</i>	10
<i>Xanthium strumarium</i>	1
<i>Xyris torta</i>	10
<i>Zannichellia palustris</i>	6
<i>Zanthoxylum americanum</i>	3
<i>Zigadenus elegans s.l.</i>	7

MN DNR Official Name	EBF C-value
Zizania aquatica var. aquatica	10
Zizania palustris var. interior	8
Zizania palustris var. palustris	no value*

MN DNR Official Name	EBF C-value
Zizia aptera var. aptera	6
Zizia aurea	6