

Coefficients of Conservatism for Plants of the Laurentian Mixed Forest Ecological Province of Minnesota

Minnesota Biological Survey 07 July 2026

Overall Project Description

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

The list used in the assignment process is based on species known to occur in the LMF. 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.

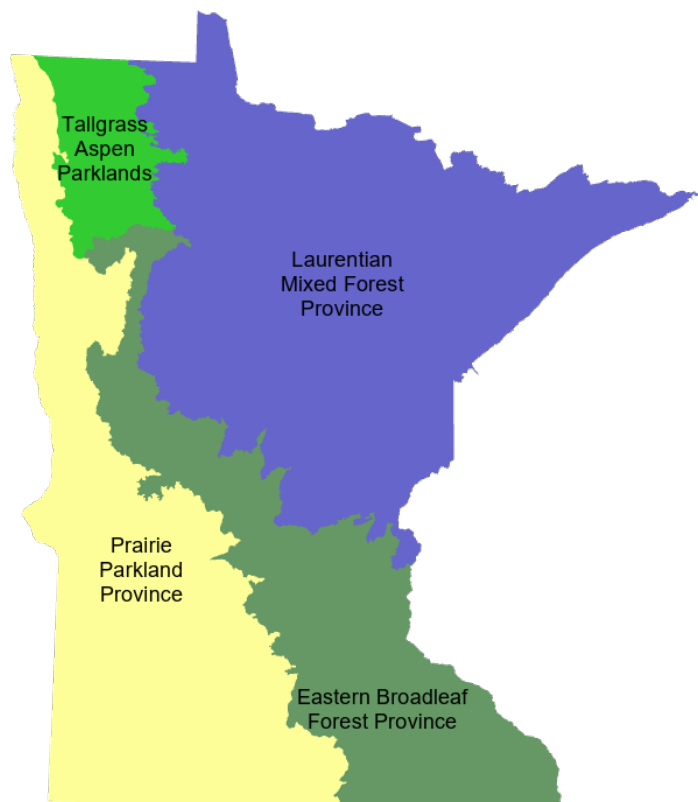


Figure 1. Minnesota's four ecological provinces.

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, *Deschampsia cespitosa* and *Calamagrostis stricta* are widespread in the TAP Province but are restricted to the north shore or rock outcrops in the Laurentian Mixed Forest (LMF) Province. 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 Laurentian Mixed Forest Province. Our approach follows efforts that assign C-values for specific ecological regions elsewhere, such as for wetlands of the southeastern United States (Gianopulos 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 Laurentian Mixed Forest province. Each panel member will work independently to assign C-values to the species for which they have sufficient knowledge. Group average and standard deviation will be 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 LMF include the following:

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

Habitat Specificity

Examples of microhabitat requirements range from very specific, narrowly defined microhabitat characteristics, such as cliff talus systems, versus ubiquitous ecological systems such as mesic hardwood and fire-dependent forest communities. While some mesic hardwoods and fire dependent forests are common, certain species require specific microhabitats within the broader landscape. For example, many *Botrychium* ferns, not only require mesic hardwoods (with sufficient duff), but also depend on endomycorrhizal fungi in the genus *Glomus* for nutrient uptake. *Glomus* spp. are most often associated with ash, cedar, maple, and basswood. Therefore, the habitat for these *Botrychium* species may need more careful consideration than associated mesic hardwood 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 are large scoring discrepancies 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 Laurentian Mixed Forest province of Minnesota. Special thanks go to those members of the panel for providing both critical input and time. The panel included Chel Anderson, Ethan Perry, Jack Greenlee, Jake Walden, Michael Lee, Otto Gockman, Rebecca Holmstrom, 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*.

Coefficients of Conservatism for Plants of the Laurentian Mixed Forest Province of Minnesota

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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	LMF C-Value
Abies balsamea	4
Acalypha rhomboidea	no value*
Acer negundo	2
Acer negundo var. negundo	no value*
Acer negundo var. texanum	no value*
Acer nigrum	7
Acer rubrum var. rubrum	3
Acer saccharinum	6
Acer saccharum	6
Acer spicatum	5
Achillea alpina	6
Achillea millefolium	2
Acorus americanus	7
Actaea pachypoda	8
Actaea rubra	5
Adiantum pedatum	7
Adlumia fungosa	7
Adoxa moschatellina	9
Agalinis aspera	no value*
Agalinis purpurea s.l.	no value
Agalinis purpurea var. parviflora	no value*
Agalinis tenuifolia	5
Agastache foeniculum	6
Agastache scrophulariaefolia	7
Ageratina altissima var. altissima	5
Agoseris glauca var. glauca	8

MN DNR Official Name	LMF C-Value
Agrimonia gryposepala	no value*
Agrimonia striata	4
Agrostis perennans	5*
Agrostis scabra s.l.	3
Alisma gramineum	8
Alisma subcordatum	5
Alisma triviale	4
Allium canadense var. canadense	no value*
Allium schoenoprasum	9
Allium stellatum	7
Allium tricoccum s.l.	7
Allium tricoccum var. burdickii	no value*
Allium tricoccum var. tricoccum	6
Alnus incana subsp. rugosa	4
Alnus viridis subsp. crispa	5
Alopecurus aequalis var. aequalis	5
Amaranthus albus	no value*
Amaranthus tuberculatus s.l.	4
Ambrosia artemisiifolia	2
Ambrosia psilostachya	3
Ambrosia trifida	2
Amelanchier alnifolia	6
Amelanchier arborea	7
Amelanchier bartramiana	6

MN DNR Official Name	LMF C-Value
Amelanchier humilis	4
Amelanchier interior	4
Amelanchier intermedia	4
Amelanchier laevis	6
Amelanchier sanguinea	4
Amerorchis rotundifolia	8
Ammophila breviligulata subsp. breviligulata	10
Amorpha canescens	8
Amorpha fruticosa	6
Amphicarpaea bracteata	4
Anaphalis margaritacea	3
Andromeda polifolia var. latifolia	8
Andropogon gerardii	5
Androsace occidentalis	no value*
Anemone acutiloba	6
Anemone americana	6
Anemone canadensis	4
Anemone cylindrica	5
Anemone patens var. multifida	9
Anemone quinquefolia var. quinquefolia	5
Anemone virginiana s.l.	5
Anemone virginiana var. alba	no value*
Angelica atropurpurea	6
Antennaria howellii	5
Antennaria howellii subsp. canadensis	no value*
Antennaria howellii subsp. neodioica	no value*
Antennaria neglecta s.s.	5
Antennaria parlinii	5
Antennaria parlinii subsp. fallax	no value*
Antennaria parvifolia	7
Anthoxanthum hirtum	5
Apios americana	7
Aplectrum hyemale	no value*
Apocynum androsaemifolium	3
Apocynum cannabinum s.l.	4
Aquilegia canadensis	5

MN DNR Official Name	LMF C-Value
Arabidopsis lyrata subsp. lyrata	7
Arabis pycnocarpa var. pycnocarpa	6
Aralia hispida	7
Aralia nudicaulis	4
Aralia racemosa	7
Arceuthobium pusillum	9
Arctostaphylos uva-ursi	7
Arethusa bulbosa	9
Arisaema triphyllum	6
Aristida basiramea	7
Aristida tuberculosa	10
Arnica lonchophylla	10
Aronia melanocarpa	7
Artemisia campestris subsp. caudata	7
Artemisia dracunculus	no value*
Artemisia frigida	no value*
Artemisia ludoviciana subsp. ludoviciana	5
Artemisia serrata	5
Asarum canadense	6
Asclepias exaltata	7
Asclepias incarnata subsp. incarnata	5
Asclepias ovalifolia	6*
Asclepias speciosa	no value*
Asclepias syriaca	2
Asclepias tuberosa subsp. interior	8
Asclepias verticillata	no value*
Asclepias viridiflora	no value*
Asplenium rhizophyllum	9
Asplenium trichomanes subsp. trichomanes	9
Astragalus agrestis	no value*
Astragalus canadensis var. canadensis	6
Astragalus neglectus	no value*
Athyrium filix-femina var. angustum	4
Barbarea orthoceras	no value*

MN DNR Official Name	LMF C-Value
Beckmannia syzigachne	5
Betula alleghaniensis	7
Betula cordifolia	7
Betula papyrifera	3
Betula pumila	7
Bidens beckii	6
Bidens cernua	4
Bidens connata	5
Bidens discoidea	8
Bidens frondosa	4
Bidens trichosperma	7*
Bidens tripartita	5
Bidens vulgata	2*
Bistorta vivipara	10
Blephilia hirsuta	no value*
Boechera collinsii	9
Boechera grahamii	6*
Boechera stricta	no value*
Boehmeria cylindrica	5*
Bolboschoenus fluviatilis	6
Boltonia asteroides	no value
Boltonia asteroides var. recognita	no value*
Botrychium angustisegmentum	9
Botrychium ascendens	6
Botrychium campestre var. lineare	6
Botrychium crenulatum	7
Botrychium matricariifolium	5
Botrychium michiganense	6
Botrychium minganense	7
Botrychium mormo	10
Botrychium neolunaria	8
Botrychium pallidum	6
Botrychium simplex var. simplex	4
Botrychium spathulatum	7
Botrychium tenebrosum	8
Botrypus virginianus	6
Bouteloua curtipendula var. curtipendula	7*

MN DNR Official Name	LMF C-Value
Bouteloua gracilis	no value*
Bouteloua hirsuta var. hirsuta	no value*
Brachyelytrum aristosum	6
Brachyelytrum erectum s.s.	no value*
Brasenia schreberi	7
Bromus ciliatus	5
Bromus kalmii	6
Bromus latiglumis	no value*
Bromus pubescens	no value*
Calamagrostis canadensis	3
Calamagrostis purpurascens	10
Calamagrostis stricta	8
Calamovilfa longifolia var. longifolia	7
Calla palustris	7
Callitriche hermaphroditica	no value*
Callitriche heterophylla	no value*
Callitriche palustris	4
Calopogon tuberosus var. tuberosus	9
Caltha natans	8
Caltha palustris	5
Calypso bulbosa var. americana	9
Calystegia sepium	2
Calystegia spithamea	6
Campanula aparinoides	5
Campanula rotundifolia	7
Canadanthus modestus	6
Cardamine bulbosa	8
Cardamine concatenata	8
Cardamine dentata	8
Cardamine parviflora	6
Cardamine pensylvanica	4
Carex ×knieskernii	4
Carex adusta	5
Carex albursina	9
Carex alopecoidea	6
Carex aquatilis	6
Carex aquatilis var. aquatilis	9
Carex aquatilis var. substricta	6
Carex arcta	6

MN DNR Official Name	LMF C-Value
Carex arctata	5
Carex assiniboinensis	6
Carex atherodes	5
Carex aurea	4
Carex backii s.s.	7
Carex bebbii	4
Carex bicknellii	6
Carex blanda	5
Carex brevior	6
Carex bromoides subsp. bromoides	9
Carex brunnescens	6
Carex buxbaumii	7
Carex canescens	5
Carex capillaris	7
Carex castanea	4
Carex cephalophora	no value*
Carex chordorrhiza	8
Carex communis var. communis	7
Carex comosa	6
Carex conoidea s.l.	8
Carex crawei	8
Carex crawfordii	4
Carex crinita var. crinita	6
Carex cristatella	5
Carex cryptolepis	7
Carex debilis var. rudgei	7
Carex deflexa var. deflexa	7
Carex deweyana var. deweyana	4
Carex diandra	7
Carex disperma	6
Carex duriuscula	8
Carex eburnea	8
Carex echinata subsp. echinata	6
Carex echinodes	5
Carex emoryi	7
Carex exilis	9
Carex flava	9
Carex foenea	7

MN DNR Official Name	LMF C-Value
Carex garberi	no value*
Carex gracillima	4
Carex granularis	4
Carex grayi	no value*
Carex grisea	5*
Carex gynandra	8
Carex gynocrates	8
Carex haydenii	7
Carex hirtifolia	7
Carex hookerana	7
Carex houghtoniana	4
Carex hystericina	5
Carex interior	7
Carex intumescens	5
Carex lacustris	4
Carex laeviconica	6
Carex lasiocarpa	8
Carex lenticularis var. lenticularis	8
Carex leptalea	6
Carex leptonervia	5
Carex limosa	8
Carex livida	9
Carex lupulina	7
Carex magellanica subsp. irrigua	7
Carex media s.l.	9
Carex merritt-fernaldii	6
Carex michauxiana	9
Carex molesta	7
Carex muskingumensis	9
Carex normalis	6
Carex novae-angliae	8
Carex obtusata	7
Carex oligosperma	8
Carex ormostachya	6
Carex pallescens	4
Carex pauciflora	8*
Carex peckii	5
Carex pedunculata	5
Carex pellita	5
Carex pennsylvanica	4

MN DNR Official Name	LMF C-Value
Carex praegracilis	no value*
Carex prairea	7
Carex praticola	9
Carex projecta	4
Carex pseudocyperus	5
Carex radiata	5
Carex retrorsa	5
Carex richardsonii	8
Carex rosea	6
Carex rossii	10
Carex rostrata	8
Carex sartwellii	6
Carex scirpoidea subsp. scirpoidea	10
Carex scoparia	4
Carex siccata	6
Carex sparganioides s.s.	no value*
Carex sprengelii	6
Carex sterilis	10
Carex stipata var. stipata	4
Carex stricta	5
Carex supina subsp. spaniocarpa	10
Carex sychnocephala	5
Carex tenera s.s.	5
Carex tenuiflora	8
Carex tetanica	7
Carex tonsa	6
Carex tonsa var. rugosperma	no value*
Carex tonsa var. tonsa	7
Carex tribuloides var. tribuloides	5
Carex trichocarpa	no value*
Carex trisperma	8
Carex tuckermanii	8
Carex typhina	9
Carex umbellata	6
Carex utriculata	5
Carex vaginata	8
Carex vesicaria	6
Carex viridula subsp. viridula	7
Carex vulpinoidea	4

MN DNR Official Name	LMF C-Value
Carex woodii	9
Carex xerantica	9
Carpinus caroliniana subsp. virginiana	7
Carya cordiformis	8
Castilleja coccinea	5*
Castilleja septentrionalis	10
Caulophyllum thalictroides	8
Ceanothus americanus	7
Ceanothus herbaceus	7
Celastrus scandens	5
Celtis occidentalis	6
Cenchrus longispinus	4*
Cephalanthus occidentalis	7
Cerastium arvense	no value*
Cerastium arvense subsp. strictum	7*
Cerastium nutans var. nutans	no value*
Ceratophyllum demersum	4
Ceratophyllum echinatum	7
Chamaecrista fasciculata	7
Chamaedaphne calyculata	7
Chamaenerion angustifolium	4
Chelone glabra	6
Chenopodium berlandieri	no value*
Chenopodium capitatum var. capitatum	no value*
Chenopodium glaucum	no value*
Chenopodium glaucum var. glaucum	no value*
Chenopodium pratericola	no value*
Chenopodium simplex	5
Chimaphila umbellata subsp. umbellata	7
Chrysosplenium americanum	8
Chrysosplenium iowense	10
Cicuta bulbifera	6*
Cicuta maculata	4
Cicuta maculata var. maculata	4
Cinna arundinacea	6
Cinna latifolia	5
Circaea alpina subsp. alpina	7

MN DNR Official Name	LMF C-Value
<i>Cypripedium reginae</i>	7
<i>Cystopteris bulbifera</i>	8
<i>Cystopteris fragilis</i> s.s.	7
<i>Cystopteris laurentiana</i>	9
<i>Cystopteris tenuis</i>	7
<i>Dalea candida</i>	7
<i>Dalea candida</i> var. <i>candida</i>	no value*
<i>Dalea purpurea</i> var. <i>purpurea</i>	7
<i>Dalea villosa</i> var. <i>villosa</i>	9
<i>Danthonia spicata</i>	5
<i>Dasiphora fruticosa</i>	8
<i>Decodon verticillatus</i>	8
<i>Delphinium carolinianum</i> subsp. <i>virescens</i>	8
<i>Dendrolycopodium dendroideum</i>	6
<i>Dendrolycopodium hickeyi</i>	7
<i>Dendrolycopodium obscurum</i>	8
<i>Deschampsia cespitosa</i> subsp. <i>cespitosa</i>	8
<i>Deschampsia flexuosa</i>	9
<i>Descurainia pinnata</i> subsp. <i>brachycarpa</i>	no value*
<i>Desmodium canadense</i>	5
<i>Dicentra cucullaria</i>	8
<i>Dichanthelium acuminatum</i>	4
<i>Dichanthelium acuminatum</i> subsp. <i>implicatum</i>	no value*
<i>Dichanthelium boreale</i>	7
<i>Dichanthelium depauperatum</i>	6
<i>Dichanthelium leibergii</i>	8
<i>Dichanthelium linearifolium</i>	7
<i>Dichanthelium oligosanthes</i>	no value
<i>Dichanthelium oligosanthes</i> subsp. <i>scribnerianum</i>	no value*
<i>Dichanthelium perlongum</i>	no value*
<i>Dichanthelium xanthophysum</i>	7
<i>Diervilla lonicera</i>	4
<i>Digitaria cognata</i>	no value*
<i>Dioscorea villosa</i>	6

MN DNR Official Name	LMF C-Value
<i>Diphasiastrum complanatum</i>	7
<i>Diphasiastrum digitatum</i>	7
<i>Diphasiastrum tristachyum</i>	8
<i>Dirca palustris</i>	8
<i>Doellingeria umbellata</i>	5
<i>Draba arabisans</i>	9
<i>Draba cana</i>	10
<i>Draba nemorosa</i>	7*
<i>Dracocephalum parviflorum</i>	6*
<i>Drosera anglica</i>	9
<i>Drosera intermedia</i>	8
<i>Drosera linearis</i>	9
<i>Drosera rotundifolia</i>	7
<i>Drymocallis arguta</i>	6
<i>Dryopteris carthusiana</i>	5
<i>Dryopteris cristata</i>	6*
<i>Dryopteris expansa</i>	8
<i>Dryopteris fragrans</i>	9
<i>Dryopteris goldieana</i>	9
<i>Dryopteris intermedia</i>	7
<i>Dulichium arundinaceum</i> var. <i>arundinaceum</i>	7
<i>Dyssodia papposa</i>	1
<i>Echinochloa muricata</i>	4
<i>Echinochloa muricata</i> var. <i>microstachya</i>	no value*
<i>Echinochloa walteri</i>	no value*
<i>Echinocystis lobata</i>	3
<i>Elatine minima</i>	8
<i>Eleocharis acicularis</i>	4
<i>Eleocharis compressa</i>	6
<i>Eleocharis elliptica</i>	6
<i>Eleocharis engelmannii</i>	no value*
<i>Eleocharis erythropoda</i>	4
<i>Eleocharis flavescens</i> var. <i>olivacea</i>	9
<i>Eleocharis intermedia</i>	6
<i>Eleocharis mamillata</i> var. <i>mamillata</i>	8
<i>Eleocharis nitida</i>	5
<i>Eleocharis obtusa</i>	5
<i>Eleocharis ovata</i>	4

MN DNR Official Name	LMF C-Value
Eleocharis palustris	4
Eleocharis quinqueflora	7
Eleocharis robbinsii	9
Eleocharis rostellata	10
Elodea canadensis	7
Elodea nuttallii	7
Elymus canadensis var. canadensis	5
Elymus curvatus	7
Elymus hystrix	7
Elymus trachycaulus	5
Elymus villosus	no value*
Elymus virginicus	5
Elymus virginicus var. jejunus	no value*
Elymus wiegandii	no value*
Enemion biternatum	8
Epigaea repens	7
Epilobium ciliatum	4
Epilobium ciliatum subsp. ciliatum	no value*
Epilobium coloratum	4
Epilobium densum	7
Epilobium leptophyllum	6*
Epilobium palustre	7
Equisetum x ferrissii	no value*
Equisetum arvense	2
Equisetum fluviatile	5
Equisetum laevigatum	6*
Equisetum palustre	8
Equisetum praealtum	4
Equisetum pratense	5
Equisetum scirpoides	6
Equisetum sylvaticum	6
Equisetum variegatum subsp. variegatum	5
Eragrostis hypnoides	5*
Eragrostis pectinacea var. pectinacea	3
Eragrostis spectabilis	no value*
Erechtites hieraciifolius var. hieraciifolius	3
Erigeron acris var. kamtschaticus	9

MN DNR Official Name	LMF C-Value
Erigeron annuus	2
Erigeron glabellus var. pubescens	8
Erigeron philadelphicus var. philadelphicus	4
Erigeron pulchellus	no value
Erigeron pulchellus var. pulchellus	no value*
Erigeron strigosus	3
Eriocaulon aquaticum	8
Eriophorum angustifolium subsp. angustifolium	6
Eriophorum gracile	7
Eriophorum russeolum subsp. leiocarpum	8
Eriophorum tenellum	7
Eriophorum vaginatum	8
Eriophorum virginicum	8
Eriophorum viridicarinarum	8
Erysimum inconspicuum	no value*
Erythranthe geyeri	8
Erythronium albidum	8
Erythronium americanum subsp. americanum	8
Euonymus atropurpureus	no value*
Eupatorium perfoliatum	5
Euphorbia corollata	8
Euphorbia glyptosperma	3
Euphorbia maculata	5
Euphorbia nutans	no value*
Euphrasia hudsoniana var. ramosior	9
Eurybia macrophylla	4
Euthamia graminifolia	5
Eutrochium maculatum	4
Fallopia cilinodis	3
Fallopia scandens	3
Festuca saximontana var. saximontana	4
Festuca subverticillata	6
Fimbristylis autumnalis	8
Floerkea proserpinacoides	9

MN DNR Official Name	LMF C-Value
<i>Fragaria vesca</i> subsp. <i>americana</i>	5*
<i>Fragaria virginiana</i>	4
<i>Fraxinus americana</i>	7
<i>Fraxinus nigra</i>	6
<i>Fraxinus pennsylvanica</i>	4
<i>Froelichia floridana</i>	7
<i>Galearis spectabilis</i>	no value*
<i>Galium aparine</i>	5*
<i>Galium asprellum</i>	5
<i>Galium boreale</i>	5
<i>Galium concinnum</i>	6
<i>Galium labradoricum</i>	7
<i>Galium obtusum</i> var. <i>obtusum</i>	7
<i>Galium palustre</i>	no value*
<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>	5
<i>Gaultheria hispidula</i>	7
<i>Gaultheria procumbens</i>	7
<i>Gaylussacia baccata</i>	9
<i>Gentiana andrewsii</i>	6
<i>Gentiana flavida</i>	no value*
<i>Gentiana puberulenta</i>	10
<i>Gentiana rubricaulis</i>	7
<i>Gentianopsis crinita</i>	7
<i>Gentianopsis virgata</i>	8
<i>Geocaulon lividum</i>	8
<i>Geranium bicknellii</i>	4
<i>Geranium carolinianum</i>	no value*
<i>Geranium maculatum</i>	5
<i>Geum aleppicum</i>	5
<i>Geum canadense</i>	4
<i>Geum laciniatum</i>	6
<i>Geum macrophyllum</i> var. <i>perincisum</i>	6
<i>Geum rivale</i>	7
<i>Glyceria borealis</i>	7
<i>Glyceria canadensis</i> var. <i>canadensis</i>	6

MN DNR Official Name	LMF C-Value
<i>Glyceria grandis</i> var. <i>grandis</i>	5
<i>Glyceria striata</i>	5
<i>Glycyrrhiza lepidota</i>	5
<i>Goodyera pubescens</i>	8
<i>Goodyera repens</i>	8
<i>Goodyera tessellata</i>	7
<i>Gratiola neglecta</i>	4
<i>Grindelia squarrosa</i>	2
<i>Gymnocarpium continentale</i>	9
<i>Gymnocarpium dryopteris</i>	6
<i>Gymnocarpium robertianum</i>	9
<i>Hackelia deflexa</i> var. <i>americana</i>	3
<i>Hackelia virginiana</i>	2*
<i>Halenia deflexa</i>	5
<i>Hamamelis virginiana</i>	8
<i>Hedeoma hispida</i>	4
<i>Hedyotis longifolia</i>	7
<i>Helenium autumnale</i>	5
<i>Helianthus annuus</i>	2
<i>Helianthus giganteus</i> s.s.	4
<i>Helianthus grosseserratus</i>	4
<i>Helianthus hirsutus</i>	5
<i>Helianthus maximiliani</i>	4
<i>Helianthus nuttallii</i> subsp. <i>rydbergii</i>	no value*
<i>Helianthus occidentalis</i> subsp. <i>occidentalis</i>	6
<i>Helianthus pauciflorus</i>	5
<i>Helianthus petiolaris</i> subsp. <i>petiolaris</i>	3
<i>Helianthus strumosus</i>	5
<i>Helianthus tuberosus</i>	4
<i>Heliopsis helianthoides</i> var. <i>scabra</i>	4
<i>Heracleum maximum</i>	4
<i>Hesperostipa spartea</i>	7
<i>Heteranthera dubia</i>	7
<i>Heterotheca villosa</i> s.s.	no value
<i>Heterotheca villosa</i> var. <i>villosa</i>	no value*
<i>Heuchera richardsonii</i>	7
<i>Hieracium longipilum</i>	8

MN DNR Official Name	LMF C-Value
Hieracium scabrum	5
Hieracium umbellatum s.l.	4
Hippuris vulgaris	6
Hordeum jubatum subsp. jubatum	2
Hudsonia tomentosa	9
Humulus lupulus	3
Humulus lupulus var. lupuloides	no value*
Huperzia appressa	10
Huperzia lucidula	7
Huperzia porophila	10
Huperzia selago	7
Hydrocotyle americana	9
Hydrophyllum virginianum var. virginianum	4
Hylodesmum glutinosum	6
Hylodesmum nudiflorum	8
Hypericum ascyron subsp. pyramidatum	5
Hypericum boreale	6
Hypericum ellipticum	7
Hypericum majus	5
Hypericum punctatum	no value*
Hypoxis hirsuta	8
Ilex verticillata var. verticillata	6
Impatiens capensis	4
Impatiens pallida	5
Iris versicolor	5
Iris virginica	4
Isanthus brachiatus	9
Isoetes echinospora	8
Isoetes lacustris	8
Juglans cinerea	5
Juglans nigra	no value*
Juncus alpinoarticulatus	7
Juncus articulatus	9
Juncus balticus subsp. littoralis	5*
Juncus brevicaudatus	5
Juncus bufonius	2
Juncus canadensis	7

MN DNR Official Name	LMF C-Value
Juncus dudleyi	3
Juncus filiformis	7
Juncus greenei	7
Juncus interior	7
Juncus longistylis	no value*
Juncus nodosus	4
Juncus pelocarpus	6
Juncus pylaei	5
Juncus stygius var. americanus	10
Juncus subtilis	10
Juncus tenuis	2
Juncus torreyi	no value*
Juncus vaseyi	5
Juniperus communis var. depressa	6
Juniperus horizontalis	9
Juniperus virginiana var. virginiana	3*
Kalmia polifolia	8
Koeleria macrantha	7
Krigia biflora	6
Lactuca biennis	4
Lactuca canadensis	4
Laportea canadensis	6
Larix laricina	7
Lathyrus japonicus var. maritimus	8
Lathyrus ochroleucus	5
Lathyrus palustris	6
Lathyrus venosus var. intonsus	5
Lechea stricta	6
Leersia oryzoides	5
Leersia virginica	6
Lemna minor s.s.	4
Lemna trisulca	5
Lemna turionifera	5
Lepidium densiflorum	2
Leptochloa fusca subsp. fascicularis	no value*
Lespedeza capitata	6
Lespedeza leptostachya	no value*

MN DNR Official Name	LMF C-Value
Leucophysalis grandiflora	7
Liatris aspera	7
Liatris cylindracea	no value*
Liatris ligulistylis	7*
Liatris pycnostachya var. pycnostachya	no value*
Lilium michiganense	6
Lilium philadelphicum	7
Lindernia dubia	5
Linnaea borealis var. longiflora	6
Linum sulcatum	no value*
Liparis liliifolia	no value*
Liparis loeselii	6
Listera auriculata	9
Listera convallarioides	10
Listera cordata var. cordata	8
Lithospermum canescens	7
Lithospermum carolinense var. croceum	8
Lithospermum incisum	no value*
Littorella americana	9
Lobelia dortmanna	8
Lobelia inflata	4
Lobelia kalmii	8
Lobelia siphilitica	5
Lobelia siphilitica var. ludoviciana	no value*
Lobelia spicata	6
Lonicera caerulea var. villosa	7
Lonicera canadensis	5
Lonicera dioica	5
Lonicera dioica var. glaucescens	no value*
Lonicera hirsuta	5
Lonicera oblongifolia	7
Ludwigia palustris	8*
Ludwigia polycarpa	5
Lupinus perennis	8
Luzula acuminata var. acuminata	5
Luzula multiflora subsp. multiflora	5

MN DNR Official Name	LMF C-Value
Lycopodiella inundata	8
Lycopodium clavatum	6
Lycopodium lagopus	6
Lycopus americanus	4
Lycopus asper	5
Lycopus uniflorus	5
Lycopus virginicus	7
Lygodesmia juncea	7
Lysimachia ciliata	5
Lysimachia hybrida	6
Lysimachia quadriflora	7
Lysimachia quadrifolia	8
Lysimachia terrestris	6
Lysimachia thyrsiflora	5
Maianthemum canadense	4
Maianthemum racemosum subsp. racemosum	5
Maianthemum stellatum	5
Maianthemum trifolium	6
Malaxis monophyllos var. brachypoda	9
Malaxis paludosa	10
Malaxis unifolia	7
Matteuccia struthiopteris var. pennsylvanica	5
Melampyrum lineare	6
Menispermum canadense	5
Mentha arvensis var. canadensis	4
Menyanthes trifoliata	7
Mertensia paniculata	7
Micranthes pennsylvanica	7
Micranthes virginensis	9
Milium effusum var. cisatlanticum	6
Mimulus ringens var. ringens	6
Minuartia dawsonensis	9
Mirabilis albidia	6*
Mirabilis nyctaginea	2
Mitchella repens	7
Mitella diphylla	7
Mitella nuda	6

MN DNR Official Name	LMF C-Value
Moehringia lateriflora	6
Moehringia macrophylla	9
Mollugo verticillata	1
Monarda fistulosa	4
Moneses uniflora	7
Monotropa hypopitys	7
Monotropa uniflora	6
Muhlenbergia frondosa	5
Muhlenbergia glomerata	7
Muhlenbergia mexicana	4
Muhlenbergia racemosa	5
Muhlenbergia uniflora	8
Mulgedium pulchellum	5
Myosotis laxa	7
Myrica gale	7
Myriophyllum alterniflorum	8
Myriophyllum farwellii	8
Myriophyllum heterophyllum	9
Myriophyllum sibiricum	no value*
Myriophyllum tenellum	7
Myriophyllum verticillatum	7
Najas flexilis	4
Najas gracillima	8
Najas guadalupensis s.l.	8
Najas guadalupensis subsp. guadalupensis	no value*
Najas guadalupensis subsp. olivacea	no value*
Nelumbo lutea	no value*
Nemopanthus mucronatus	8
Nuphar microphylla	9
Nuphar rubrodisca	8
Nuphar variegata	5
Nuttallanthus canadensis	no value*
Nymphaea leibergii	8
Nymphaea odorata s.l.	5
Nymphaea odorata subsp. odorata	no value*
Nymphaea odorata subsp. tuberosa	no value*
Oenothera biennis s.s.	3
Oenothera nuttallii	no value*

MN DNR Official Name	LMF C-Value
Oenothera parviflora	5
Oenothera perennis	6
Oenothera serrulata	no value*
Onoclea sensibilis	4
Onosmodium molle	no value
Onosmodium molle var. hispidissimum	no value*
Ophioglossum pusillum	6
Opuntia fragilis	9
Orthilia secunda	6
Orthocarpus luteus	7
Oryzopsis asperifolia	5
Osmorhiza berteroi	9
Osmorhiza claytonii	5
Osmorhiza depauperata	9
Osmorhiza longistylis	6
Osmunda regalis var. spectabilis	7
Osmundastrum cinnamomeum	7
Ostrya virginiana	6
Oxalis dillenii	1
Oxalis montana s.l.	8
Oxalis stricta	1
Oxalis violacea	9
Oxypolis rigidior	10
Oxytropis borealis var. viscida	10
Oxytropis lambertii var. lambertii	9
Packera aurea	5
Packera indecora	9
Packera paupercula	5
Packera plattensis	8
Packera pseud aurea var. semicordata	6
Panax quinquefolius	8
Panax trifolius	9
Panicum capillare subsp. capillare	2
Panicum philadelphicum subsp. philadelphicum	8
Panicum virgatum	3
Parietaria pensylvanica	2

MN DNR Official Name	LMF C-Value
Parnassia glauca	8
Parnassia palustris	7
Parthenocissus quinquefolia	4
Parthenocissus vitacea	3
Pascopyrum smithii	no value*
Paspalum setaceum	no value
Paspalum setaceum var. muhlenbergii	no value*
Pedicularis canadensis	5
Pedicularis lanceolata	7
Pellaea glabella subsp. glabella	9
Penstemon digitalis	no value*
Penstemon gracilis	7
Penstemon grandiflorus	6
Penthorum sedoides	3
Persicaria amphibia	4
Persicaria arifolia	7
Persicaria careyi	8
Persicaria lapathifolia	3
Persicaria pensylvanica	3
Persicaria punctata	3
Persicaria sagittata	3
Persicaria virginiana	7
Petasites frigidus	6
Petasites frigidus var. xvitifolius	no value*
Petasites frigidus var. palmatus	5
Petasites frigidus var. sagittatus	7
Phacelia franklinii	9
Phegopteris connectilis	6
Phemeranthus rugospermus	10
Phlox divaricata var. laphamii	8
Phlox pilosa var. fulgida	7
Phragmites australis	2
Phragmites australis subsp. americanus	3
Physalis heterophylla	4
Physalis virginiana	4
Physocarpus intermedius	8
Physocarpus opulifolius s.s.	8

MN DNR Official Name	LMF C-Value
Physostegia virginiana var. virginiana	6
Picea glauca	4
Picea mariana	6
Pilea fontana	4
Pilea pumila	5*
Pinguicula vulgaris	10
Pinus banksiana	5
Pinus resinosa	5
Pinus strobus	5
Piptatherum canadense	7
Piptatherum pungens	7
Piptatherum racemosum	7
Plantago aristata	no value*
Plantago patagonica	3
Plantago rugelii	1
Platanthera aquilonis	6
Platanthera clavellata	7
Platanthera dilatata var. dilatata	9
Platanthera flava var. herbiola	7
Platanthera hookeri	8
Platanthera huronensis	7
Platanthera lacera	6
Platanthera obtusata	7*
Platanthera orbiculata	8
Platanthera psycodes	6
Poa alsodes	no value*
Poa glauca subsp. glauca	7
Poa interior	7
Poa paludigena	10
Poa palustris	4
Poa saltuensis s.l.	6
Pogonia ophioglossoides	8
Polanisia dodecandra	5
Polemonium lacustre	10
Polygala cruciata	9
Polygala polygama	7
Polygala sanguinea	8
Polygala senega	7
Polygala verticillata	7

MN DNR Official Name	LMF C-Value
Polygaloides paucifolia	7
Polygonatum biflorum	6
Polygonatum pubescens	6
Polygonella articulata	8
Polygonum achoreum	1
Polygonum aviculare	no value
Polygonum aviculare subsp. buxiforme	no value*
Polygonum douglasii	7
Polygonum ramosissimum	7*
Polygonum ramosissimum subsp. ramosissimum	no value*
Polygonum tenue	no value*
Polymnia canadensis	no value*
Polypodium virginianum	7
Polystichum braunii	9
Pontederia cordata	6
Populus balsamifera	3
Populus deltoides subsp. monilifera	2
Populus grandidentata	5
Populus tremuloides	2
Potamogeton alpinus	7
Potamogeton amplifolius	6
Potamogeton bicupulatus	9
Potamogeton confervoides	10
Potamogeton diversifolius s.s.	9
Potamogeton epihydrus	5
Potamogeton foliosus subsp. foliosus	no value*
Potamogeton friesii	no value*
Potamogeton gramineus	4*
Potamogeton illinoensis	6
Potamogeton natans	5
Potamogeton nodosus	7
Potamogeton oakesianus	9
Potamogeton praelongus	6
Potamogeton pulcher	8
Potamogeton pusillus	no value*
Potamogeton pusillus subsp. tenuissimus	no value*
Potamogeton richardsonii	5*

MN DNR Official Name	LMF C-Value
Potamogeton robbinsii	7
Potamogeton spirillus	4*
Potamogeton strictifolius	no value*
Potamogeton vaseyi	8
Potamogeton zosteriformis	7
Potentilla anserina subsp. anserina	4*
Potentilla norvegica	2
Potentilla pensylvanica s.s.	4
Potentilla rivalis	no value*
Potentilla simplex	3
Prenanthes alba	5
Primula mistassinica	10
Prosartes trachycarpa	10
Prunus americana	3
Prunus nigra	4
Prunus pensylvanica	4
Prunus pumila	7
Prunus pumila var. besseyi	7*
Prunus pumila var. pumila	7*
Prunus pumila var. susquehanae	8
Prunus virginiana var. virginiana	3
Pseudognaphalium macounii	3
Pseudognaphalium obtusifolium	4
Pteridium aquilinum subsp. latiusculum	3
Pycnanthemum virginianum	6
Pyrola americana	6
Pyrola asarifolia subsp. asarifolia	6
Pyrola chlorantha	6
Pyrola elliptica	6
Pyrola minor	8
Quercus alba	6
Quercus ellipsoidalis	7
Quercus macrocarpa	6
Quercus rubra	6
Ranunculus abortivus	2
Ranunculus aquatilis var. diffusus	5

MN DNR Official Name	LMF C-Value
Ranunculus cymbalaria	no value*
Ranunculus fascicularis	9
Ranunculus flabellaris	6
Ranunculus flammula	7
Ranunculus gmelinii	7
Ranunculus hispidus	5
Ranunculus hispidus var. caricetorum	no value*
Ranunculus lapponicus	9
Ranunculus pensylvanicus	3
Ranunculus recurvatus var. recurvatus	5
Ranunculus rhomboideus	8
Ranunculus scleratus	4
Ranunculus scleratus var. multifidus	no value*
Ranunculus scleratus var. scleratus	no value*
Ratibida columnifera	no value*
Ratibida pinnata	no value*
Rhamnus alnifolia	7
Rhododendron groenlandicum	6
Rhus glabra	3
Rhus typhina	4
Rhynchospora alba	8
Rhynchospora capillacea	10
Rhynchospora capitellata	10
Rhynchospora fusca	8
Ribes americanum	4
Ribes cynosbati	4
Ribes glandulosum	6
Ribes hirtellum	5
Ribes hudsonianum	7
Ribes lacustre	7
Ribes missouriense	4
Ribes oxycanthoides var. oxycanthoides	6
Ribes triste	6
Rorippa palustris	3
Rorippa palustris subsp. hispida	no value*

MN DNR Official Name	LMF C-Value
Rorippa palustris subsp. palustris	no value*
Rosa acicularis subsp. sayi	3
Rosa arkansana	5
Rosa blanda	4
Rosa woodsii var. woodsii	5
Rotala ramosior	no value*
Rubus ablatus	4
Rubus acridens	4
Rubus allegheniensis s.s.	4
Rubus alumnus	5
Rubus arcticus subsp. acaulis	8
Rubus canadensis s.s.	4
Rubus chamaemorus	10
Rubus dissensus	7
Rubus ferrofluvius	5
Rubus frondosus	3
Rubus fulleri	8
Rubus groutianus	7
Rubus idaeus	2
Rubus idaeus var. strigosus	2
Rubus ithacanus	no value*
Rubus missouricus	5*
Rubus occidentalis	3
Rubus parviflorus	6
Rubus plicatifolius	5
Rubus pubescens	3
Rubus quaesitus	no value*
Rubus recurvans	4
Rubus regionalis	7
Rubus rosa	4
Rubus satis	5
Rubus semisetosus	7
Rubus steelei	8*
Rubus stipulatus	7
Rubus superioris	6
Rubus uniformis	4
Rubus vermontanus s.s.	5
Rubus wheeleri	6
Rubus wisconsinensis	5
Rudbeckia hirta var. pulcherrima	3

MN DNR Official Name	LMF C-Value
Rudbeckia laciniata var. laciniata	5
Rumex britannica	5
Rumex fueginus	7*
Rumex triangulivalvis	3*
Ruppia cirrhosa	no value*
Sagina nodosa subsp. borealis	10
Sagittaria cristata	6
Sagittaria cuneata	5
Sagittaria latifolia	4
Sagittaria rigida	5
Salix amygdaloides	5
Salix bebbiana	4
Salix candida	8
Salix discolor	3
Salix eriocephala s.s.	4
Salix humilis	6
Salix humilis var. humilis	no value*
Salix interior	3
Salix lucida	6
Salix maccalliana	8
Salix nigra	5*
Salix pedicellaris	8
Salix pellita	8
Salix petiolaris	3
Salix planifolia	7
Salix pseudomonticola	8
Salix pyrifolia	7
Salix serissima	6
Sambucus canadensis var. canadensis	4
Sambucus racemosa var. pubens	4
Sanguinaria canadensis	7
Sanicula marilandica	4
Sanicula odorata	6
Sarracenia purpurea subsp. purpurea	8
Satureja vulgaris	no value*
Saxifraga cernua	10
Saxifraga paniculata	10

MN DNR Official Name	LMF C-Value
Sceptridium dissectum	6
Sceptridium multifidum	4
Sceptridium oneidense	8
Sceptridium rugulosum	6
Scheuchzeria palustris	8
Schizachne purpurascens	5
Schizachyrium scoparium var. scoparium	7
Schoenoplectiella purshiana	8
Schoenoplectiella purshiana var. purshiana	8
Schoenoplectiella smithii	7
Schoenoplectus acutus var. acutus	6
Schoenoplectus heterochaetus	5
Schoenoplectus pungens	6
Schoenoplectus subterminalis	7
Schoenoplectus tabernaemontani	4
Schoenoplectus torreyi	8
Scirpus atrocinctus	4
Scirpus atrovirens s.s.	3
Scirpus cyperinus s.s.	3
Scirpus hattorianus	3
Scirpus microcarpus	3
Scirpus pallidus	no value*
Scirpus pedicellatus	5
Scleria verticillata	no value*
Scolochloa festucacea	no value*
Scrophularia lanceolata	4
Scutellaria galericulata	5
Scutellaria lateriflora	5
Scutellaria leonardii	8
Selaginella rupestris	8
Selaginella selaginoides	10
Shepherdia argentea	no value*
Shepherdia canadensis	8
Sibbaldiopsis tridentata	7
Sicyos angulatus	4
Silene antirrhina	5

MN DNR Official Name	LMF C-Value
Silene drummondii subsp. drummondii	9
Silene hitchguirei	10
Sisyrinchium campestre	6
Sisyrinchium montanum var. montanum	5
Sisyrinchium mucronatum	no value*
Sium suave	5
Smilax ecirrhata	5
Smilax herbacea	5
Smilax illinoensis	5
Smilax lasioneura	4
Smilax tamnoides	no value*
Solidago altissima	2
Solidago canadensis s.s.	2
Solidago flexicaulis	7
Solidago gigantea	3
Solidago hispida	6
Solidago juncea	6
Solidago missouriensis	7
Solidago nemoralis	5
Solidago ptarmicoides	8
Solidago riddellii	no value*
Solidago rigida	5
Solidago sciaphila	10
Solidago speciosa	7
Solidago speciosa var. rigidiuscula	no value*
Solidago speciosa var. speciosa	no value*
Solidago uliginosa	7
Solidago ulmifolia var. ulmifolia	8
Sorbus americana	5
Sorbus decora	6
Sorghastrum nutans	6
Sparganium americanum	6
Sparganium androcladum	7
Sparganium angustifolium	6
Sparganium emersum s.l.	6
Sparganium eurycarpum	5
Sparganium fluctuans	6

MN DNR Official Name	LMF C-Value
Sparganium glomeratum	6
Sparganium natans	6
Spartina pectinata	5*
Sphenopholis intermedia	4
Spinulum annotinum s.s.	6
Spinulum canadense	8
Spiraea alba var. alba	5
Spiraea tomentosa var. rosea	7
Spiranthes casei var. casei	6
Spiranthes cernua	5
Spiranthes lacera	7
Spiranthes lacera var. lacera	7
Spiranthes magnicamporum	8
Spiranthes romanzoffiana	8
Spirodela polyrrhiza	3
Sporobolus cryptandrus	4*
Sporobolus heterolepis	8
Sporobolus neglectus	2
Sporobolus vaginiflorus var. vaginiflorus	2
Stachys hispida	4
Stachys palustris	4
Stachys palustris var. homotricha	no value*
Stachys palustris var. pilosa	no value*
Stachys tenuifolia	8
Staphylea trifolia	8
Stellaria borealis subsp. borealis	7
Stellaria longifolia	3
Streptopus amplexifolius	8
Streptopus lanceolatus	5
Strophostyles leiosperma	6*
Stuckenia filiformis	no value*
Stuckenia pectinata	4
Stuckenia vaginata	8
Subularia aquatica subsp. americana	10
Symphoricarpos albus	6
Symphoricarpos occidentalis	5
Symphyotrichum boreale	7
Symphyotrichum ciliatum	3

MN DNR Official Name	LMF C-Value
Symphyotrichum ciliolatum	5
Symphyotrichum cordifolium	6
Symphyotrichum ericoides	4
Symphyotrichum ericoides var. ericoides	no value*
Symphyotrichum firmum	6
Symphyotrichum laeve	7
Symphyotrichum laeve var. laeve	no value*
Symphyotrichum lanceolatum	4
Symphyotrichum lanceolatum var. hesperium	no value*
Symphyotrichum lanceolatum var. lanceolatum	no value*
Symphyotrichum lateriflorum	5
Symphyotrichum novae-angliae	no value*
Symphyotrichum oolentangiense	8
Symphyotrichum praealtum	7
Symphyotrichum puniceum var. puniceum	5
Symphyotrichum sericeum	9
Symphyotrichum urophyllum	7
Symplocarpus foetidus	9
Synthyris bullii	9
Taxus canadensis	7
Tephroseris palustris	5
Teucrium canadense	4
Thalictrum dasycarpum	4
Thalictrum dioicum	6
Thalictrum thalictroides	8
Thalictrum venulosum	7
Thelypteris palustris var. pubescens	6
Thuja occidentalis	6
Tilia americana	6
Tofieldia pusilla	10
Torreyochloa pallida	6
Torreyochloa pallida var. fernaldii	6

MN DNR Official Name	LMF C-Value
Torreyochloa pallida var. pallida	no value*
Toxicodendron radicans var. rydbergii	4
Toxicodendron vernix	8
Tradescantia bracteata	7
Triadenum fraseri	7
Triantha glutinosa	9
Trichophorum alpinum	7
Trichophorum cespitosum	9
Trichophorum clintonii	9
Trientalis borealis	5
Triglochin maritima	7
Triglochin palustris	9
Trillium cernuum	6
Trillium flexipes	no value*
Trillium grandiflorum	6
Triodanis perfoliata	no value*
Triosteum aurantiacum	6
Triosteum perfoliatum	6
Triplasis purpurea var. purpurea	no value*
Trisetum spicatum	10
Tsuga canadensis	9
Turritis glabra	2
Typha latifolia	4
Ulmus americana	5
Ulmus rubra	6
Ulmus thomasii	6
Urtica dioica subsp. gracilis	2
Utricularia cornuta	8
Utricularia geminiscapa	8
Utricularia gibba	8
Utricularia intermedia	6
Utricularia minor	6
Utricularia purpurea	9
Utricularia resupinata	9
Utricularia vulgaris	4
Uvularia grandiflora	7
Uvularia sessilifolia	6
Vaccinium angustifolium	4
Vaccinium cespitosum	7

MN DNR Official Name	LMF C-Value
Vaccinium macrocarpon	8
Vaccinium myrtilloides	5
Vaccinium oxycoccos	7
Vaccinium uliginosum	10
Vaccinium vitis-idaea	8
Vallisneria americana	7
Verbena bracteata	2
Verbena hastata	4
Verbena stricta	6
Verbena urticifolia	4
Vernonia fasciculata	no value*
Veronica americana	7
Veronica catenata	6
Veronica peregrina	2
Veronica scutellata	6
Veronicastrum virginicum	6
Viburnum edule	8
Viburnum lentago	5
Viburnum opulus s.l.	6
Viburnum opulus var. americanum	6
Viburnum rafinesquianum	5
Vicia americana	3
Viola adunca	6
Viola adunca var. adunca	no value*
Viola blanda	6
Viola canadensis var. rugulosa	6
Viola cucullata	6
Viola epipsila subsp. repens	8
Viola labradorica	5
Viola lanceolata	8
Viola macloskeyi	6

MN DNR Official Name	LMF C-Value
Viola nephrophylla	6
Viola novae-angliae	6
Viola pedata var. pedata	8
Viola pedatifida	7
Viola pubescens	6
Viola renifolia	7
Viola selkirkii	8
Viola sororia s.s.	4
Vitis riparia	4
Vulpia octoflora	6*
Waldsteinia fragarioides	7
Wolffia borealis	4
Wolffia brasiliensis	4
Wolffia columbiana	4
Woodsia alpina	10
Woodsia glabella	10
Woodsia ilvensis	8
Woodsia obtusa subsp. obtusa	10
Woodsia oregana subsp. cathcartiana	9
Woodsia scopulina subsp. laurentiana	10
Xanthium strumarium	2*
Xyris montana	9
Zanthoxylum americanum	4
Zigadenus elegans s.l.	no value*
Zizania palustris	6
Zizania palustris var. interior	6
Zizania palustris var. palustris	4
Zizia aptera var. aptera	6
Zizia aurea	6