

Wetland/Environmental Mitigation Manual West Bloomfield Township





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I. OVERVIEW

West Bloomfield Township enforces a wetland and environmental ordinance under Section 12 of the West Bloomfield Charter Township Code (Section 12, Wetland and Watercourse Ordinance). The ordinance requires that a permit be applied for and granted before any proposed activities occur within a wetland, floodplain, or watercourse, or within the 25-foot Environmental Features Setback (EFS) that surrounds these features. Granting of wetland and/or EFS permits allows the Township to closely monitor, track, and enforce the ordinance that is intended to protect public and environmental health. No work can be performed above or below the surface of the land or water, including but not limited to, constructing houses, buildings, bulkheads, piers, docks, rafts; removing plants, soils, or any other vegetation; dredging, filling, or land balancing.

The Township's Wetland/EFS ordinance applies to the following land conditions:

- A wetland, land characterized by the adequate presence of water to support wetland vegetation and aquatic life;
- A watercourse, defined as a body of water that has well-defined banks and includes lakes and ponds, and year-round or seasonally flowing rivers, streams, creeks, and brooks; and
- Lands within the 100-year floodplain and subject to hazardous flooding.

The Michigan Department of Environmental Quality (MDEQ) requires mitigation for impacts greater than 1/3 acre to regulated wetland under Part 303, Wetland Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451 (NREPA). Additionally, under Section 12 of the Wetlands and Watercourse Ordinance, the Township requires mitigation for impacts to wetlands, watercourses, floodplains, and/or their 25-foot Environmental Features Setback, regardless of the size of the natural feature. Wetland mitigation compensates for any wetland loss by either restoring or creating new wetlands at least equivalent to the lost area on the disturbed site. The goal is to maintain the same level of ecosystem services and public health benefits provided by the wetlands and environmental features on-site. Mitigation decisions are made on a site-by-site basis and developed through careful assessment of specific site conditions, limitations, and opportunity for successful mitigation.

It is preferred that restoration of disturbed areas occurs before creation of new natural features (*i.e.*, wetlands, woodlands, etc) due to the ecological and economic benefits of restoring pre-existing natural features. When mitigating, it is essential that native vegetation is used to restore the site.

Mitigation Criteria and Standards

Compliance with the design criteria and standards in Section 12-37 of the Wetland and Watercourse Ordinance, as determined by the Environmental Director, shall be required for a minor project to be considered for approval by an administrative permit and may be required for other use permits by the entity with final approval authority in the absence of a demonstration by the applicant that compliance with a particular design criteria or standard is not feasible and prudent or is not necessary to assure that the operation will

cause the least possible damage and encroachment or interference with natural resources and natural processes with the watercourse and wetland areas in the Township.

For administrative permits, the mitigation area must be less than 0.5 acres and located on the same site as the proposed operation for which a permit is required. Off-site mitigation may not be approved by an administrative permit.

The minimum area or volume and location requirements for mitigation are as follows:

- In an Environmental Features Setback area, the mitigation area shall be at least as large as the area of disturbance (1:1 mitigation ratio).
- The mitigation volume of material to be removed from the floodplain shall be at least as large as the volume of fill (1:1 mitigation ratio) and the mitigation area shall be directly connected to the floodplain impacted.
- For operations in a wetland, the mitigation area shall be at least twice as large as the area of disturbance (2:1 mitigation ratio).
- If providing a 2:1 mitigation ratio is not feasible, the largest feasible mitigation area that is at least as large as the area of disturbance may be approved if there is an enhancement that increases the number of plant species in the wetland by 30, with the new plant species to be **native** to Michigan. A list of native plant nurseries and/or suppliers is available in Appendix A. A preferred list of native trees and shrubs approved for mitigation wetlands is available in Appendix B (Native Tree and Shrub List and Approved Wetland Plant List). Appendix D, the Floristic Quality Assessment, lists all native and non-native species known to exist in Michigan.

II. MITIGATION PREPARATION AND PLANNING

The following items should be considered and submitted to the Township when preparing to mitigate for wetland and/or other environmental impacts:

- The acreage to be restored, created, or preserved by ecological type.
- A description of the ecological types, hydrology, soils, and vegetation of the wetlands to be impacted.
- A description of the functions provided by the wetlands to be impacted and the proposed mitigation wetlands.
- A description of the topography, soils, hydrology, and vegetation. Soil boring information and groundwater monitoring data should supplement this description.
- A water budget of inputs and outputs to the proposed wetland (e.g., precipitation, groundwater, runoff, evapotranspiration). The nature and extent of information and support required for an administrative permit water budget of inputs and outputs to a proposed mitigation wetland is determined by the Environmental Director.
- An Existing Conditions Plan that includes topographic information (1 or 2 foot contour intervals), roads, trails, structures, property lines, directional arrows, scale, and the exact size and boundaries of existing Environmental Features Setback, wetlands, streams, and 100-year floodplain.
- A Wetland Mitigation Plan that includes:
 - A description of the sources of hydrology, the source and type of soil amendments, wetland vegetation establishment, and wildlife structures.
 - A plan view showing all of the proposed conditions of the mitigation site including all contour elevations (at 1 or 2 foot contour intervals), structures, the type and size of all proposed wetland areas, property lines, directional arrows, scale, the conservation easement area, and the proposed method of demarking the Environmental Features Setback.
 - Cross sections showing the existing and proposed grades.
 - A Landscape Plan with includes a plan view, installation methods, planting list that species plant type, species list with scientific and common names, size, and quantity as well as distribution within the mitigation areas.
 - A schedule and construction methods for completion of the mitigation site must be provided (*i.e.*, initiation, planting, completion). The site

preparation and soil erosion and sedimentation control (SESC) methods to be used during construction should be described.

- A long-term protection plan: a preservation notice and an accompanying recordable size site plan showing the wetland, Environmental Features Setback area, and 100-year floodplain must be provided.

- Only native/indigenous trees, shrubs grasses, sedges, forbs, vines, and other herbaceous plants approved by the Environmental Director provided in Appendix B of this manual may be planted in wetlands, watercourses, woodland preservation areas, floodplains, and Environmental Features Setback areas. A list of sample seed mixes is available in Appendix C.

III. MITIGATION CONSTRUCTION – DESIGN CRITERIA

The administrative rules for Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, require that performance standards be established for all wetland mitigation projects. In addition to these standards, the Township has included design, construction, and performance standards in Section 12-37 of the Township's Wetland and Watercourse Ordinance. These are the criteria by which the mitigation wetland will be evaluated to determine if the wetland mitigation requirements of the permit have been met. If the mitigation wetland does not satisfactorily meet these standards by the end of the monitoring period, or is not satisfactorily progressing during the monitoring period, the owner will be required to take corrective actions. The following are considered standard performance standards for wetland mitigation projects:

- Construction has been completed in accordance with the MDEQ and/or Township approved plans and specifications referenced in the permit.

- The mitigation wetland is characterized by the presence of water at a frequency and duration sufficient to support a predominance of wetland vegetation and the wetland types specified in the mitigation plan at the end of the monitoring period. The mitigation wetland is designed to have certain hydrological characteristics, such as water elevation, water depth, and water level fluctuations consistent with the ecological wetland types proposed as set forth below. The Township will consider design hydrology to be established when it determines that the following conditions are met for at least 1 calendar year, based on monitoring of the mitigation site:
 - Forested and scrub-shrub wetlands will be consecutively saturated within 12 inches of the soil surface for at least 15 percent of the growing season. For purposes of assigning credits for construction complete, forested and scrub-shrub wetlands will not be deeper than 2 inches above the surface for more than 30 percent of the growing season.

 - Emergent wetlands will be consecutively saturated within 12 inches of the soil surface for at least 15 percent of the growing season. Water depth in the emergent wetland will not exceed 18 inches for the purposes of approving credits for construction complete, except that no more 15 percent of the emergent wetland may have water depths greater than 18 inches.

 - Water levels in Wet Meadow wetland types will be consecutively saturated within 12 inches of the soil surface for at least 15 percent of the growing season. Wet prairie wetland types will have a minimum annual depth of saturation 12 inches below the soil surface for at least 15 percent of the growing season. Maximum inundation will occur permanently at a depth of 3 inches.

- A layer of high-quality soil, from the A horizon of an organic or loamy surface texture soil, is placed over the entire created wetland area at a minimum thickness of 6 inches.
- The mitigation wetland shall be free of oil, grease, debris, and all other contaminants.
- A minimum of 6 habitat structures, consisting of at least 3 types, have been placed per acre of mitigation wetland. At least 50 percent of each structure shall extend above the normal water level. The types of acceptable wildlife habitat structures are as follows:
 - Tree stumps laid horizontally within the wetland area. Acceptable stumps shall be a minimum of 6 feet long (log and root ball combined) and 12 inches in diameter.
 - Logs laid horizontally within the wetland area. Acceptable logs shall be a minimum of 10 feet long and 6 inches in diameter.
 - Whole trees laid horizontally within the wetland area. Acceptable whole trees shall have all of their fine structure left intact (*i.e.*, not trimmed down to major branches for installation) and be a minimum of 20 feet long (tree and root ball) and a minimum of 12 inches in diameter at breast height (DBH).
 - Snags which include whole trees left standing that are dead or dying, or live trees that will be flooded and die, or whole trees installed upright into the wetland. A variety of tree species should be used for the creation of snag habitat. Acceptable snags shall be a minimum of 20 feet tall (above the ground surface) and a minimum of 12 inches DBH. Snags should be grouped together so as to provide mutual functional support as nesting, feeding, and perching sites.
 - Sand mounds at least 18 inches in depth and placed so that they are surrounded by a minimum of 30 feet of water measuring at least 18 inches in depth. The sand mound shall have at least a 200 square foot area that is 18 inches above the projected high water level and oriented to receive maximum amounts of sunlight.
- Mean percent cover of native wetland species in the herbaceous layer at the end of the monitoring period is not less than:
 - 80 percent for forested wetland.
 - 80 percent for scrub-shrub wetland
 - 60 percent for emergent wetland.
 - 80 percent for wet meadow wetland.

- Extensive open water and submergent vegetation areas having no emergent and/or floating vegetation shall not exceed 15 percent of the mitigation wetland area. Extensive areas of bare soil shall not exceed 5 percent of the mitigation wetland area. For the purposes of these performance standards, extensive refers to areas greater than 0.01 acre in size.
- No mitigation credit will be given for areas deeper than 2.5 feet.
- The total percent cover of wetland species in each plot shall be averaged for plots taken in the same wetland type to obtain a mean percent cover value for each wetland type. Plots within identified extensive open water and submergent areas, bare soil areas, and areas without a predominance of wetland vegetation shall not be included in this average. Wetland species refers to species listed as Facultative and wetter (FAC, FAC+, FACW-, FACW, FACW+, OBL) in the attached Floristic Quality Assessment (Appendix D).
- The mitigation wetland supports a predominance of wetland vegetation (as defined in Appendix B, C, and/or D) in each vegetative layer, represented by a minimum number of native wetland species, at the end of the monitoring period. The minimum number of native wetland species per wetland type shall not be less than:
 - 15 species within the forested wetland.
 - 15 species within the scrub-shrub wetland.
 - 15 species within the emergent wetland.
 - 20 species within the wet meadow wetland.
- The total number of native wetland plant species shall be determined by a sum of all species identified in sample plots of the same wetland type. At the end of the monitoring period, the mitigation wetland supports a minimum of:
 - 300 individual surviving, established, and free-to-grow trees per acre in the forested wetland that are classified as native wetland species and consisting of at least three different plant species. For the purposes of this performance standard, *Fraxinus pennsylvanica* (green ash) and *Populus* spp. (aspen species) are not acceptable species. A list of approved trees is available in Appendix B.
 - 300 individual surviving, established, and free-to-grow shrubs per acre in the scrub- shrub wetland that are classified as native wetland species and consisting of at least four different plant species. A list of approved shrubs is available in Appendix B.
- The mean percent cover of invasive species including, but not limited to, *Phragmites australis* (common reed), *Lythrum salicaria* (purple loosestrife), and *Phalaris arundinacea* (reed canary grass) shall in combination be limited to no

more than 10 percent within each wetland type. Invasive species shall not dominate the vegetation in any extensive area of the mitigation wetland.

- If the mean percent cover of invasive species is more than 10 percent within any wetland type or if there are extensive areas of the mitigation wetland in which an invasive species is one of the dominant plant species, the owner shall submit an evaluation of the problem to the Environmental Director. If the owner determines that it is not feasible to reduce the cover of invasive species to meet the above performance standard, the Environmental Director may approve an alternative invasive species standard. The owner must submit an assessment of the problem, a control plan, and the projected percent cover that can be achieved for review by the Environmental Director. Any alternative invasive species standard must be approved in writing by the Environmental Director.
- Additional performance standards specific to the goals and objectives of the mitigation may be required.
- Any plantings or re-plantings must be completed at least 1 calendar year before final approval of a fully functional mitigation site.
- In addition to the conditions in Section 12-37, the owner must comply with all of the of the following Mitigation Construction conditions:
 - The owner must notify the Township in writing 5 days before construction of the wetland mitigation area is commenced, and undertake construction in conformity with the terms and conditions specified in the permit, plans, specifications, and appendices that are part of the approved plans.
 - If, during construction of the wetland mitigation area, a previously unknown or unreported material and/or regulated condition, such as an archaeological or historic site, threatened or endangered species, waste, or contamination, is encountered, the owner will discontinue work, notify the Township, and initiate contact with appropriate local, state, and federal agencies to determine what response the condition requires.
 - Construction methods, including water control structures, berms, and tile breaking, must be in accordance with the U.S. Department of Agriculture, Natural Resources Conservation Service's Engineering Field Handbook (Chapter 13) and Conservation Practice Standard for Wetland Restoration (Code 657).
 - The owner shall notify the Township in writing within 10 days after construction of the mitigation wetland is complete.

- Modification or adjustment of any water control structures, or manipulation of hydrology, may be made only with the written approval of the Township.

IV. MITIGATION MONITORING

A mitigation monitoring plan is required as outlined in Section 12-39(4). The Township will consider the wetlands fully functional when it determines that the wetlands are consistent with the standards in Sections 12-37(10) a.-u. Once deemed fully function no additional monitoring reports will be required and any performance bond that was required will be released. The locations of vegetative sampling transects, photo points, monitoring wells, and staff gauges for monitoring should be shown on a plan view. The monitoring plan requires the following items:

- (1) Measure inundation and saturation at all staff gauges, monitoring wells, and other stationary points to assess the periods and degree of inundation and saturation, according to the monitoring plan. A minimum of two measurements are required during the growing season.
- (2) Vegetation must be sampled in plots located along transects once between July 15 and August 31. The owner will determine the number of sample plots necessary within each wetland type and Environmental Features Setback area by use of a species-area curve or other approach, as approved by the Environmental Director. If the wetlands area is less than 1 acre, then the minimum number of sample plots for each wetland type shall be no fewer than 5. Sample plots shall be located on the sample transect at evenly spaced intervals or by another approach approved by the Environmental Director. If additional or alternative sample transects are needed to sufficiently evaluate each wetland type, they must be approved in advance in writing by the Environmental Director.
- (3) The herbaceous layer (all non-woody plants and woody plants less than 3.2 feet in height) shall be measured with a 3.28 foot by 3.28 foot (one square meter) sample plot. The shrub and tree layer shall be measured with a 30 foot radius plot. The data recorded for each herbaceous layer sample plot shall include a list of all living plant species, and an estimate of percent cover in 5 percent intervals for each species recorded, bare ground, and open water relative to the total area of the plot. (The total percent cover for the plot should exceed 100 percent.) The number and species of surviving, established, and free-to-grow trees and surviving, established, and free-to-grow shrubs shall be recorded for each 30 foot radius plot.
- (4) Provide plot data and a list of all the plant species identified in the plots and otherwise observed during monitoring. Data for each species must include common name, scientific name, wetland indicator category from the Michigan Floristic Quality Assessment (Michigan Department of Natural Resources, 2001), which is available in Appendix D of this manual.
- (5) The location of sample transects and plots should be identified in the monitoring report on a plan view showing the location of wetland types and the Environmental Features Setback areas. Sample transects shall be staked at a frequency sufficient to locate the transects in the field.

- (6) Delineate any extensive (greater than 0.01 acre in size) open water areas, bare soil areas, areas dominated by invasive species, and areas without a predominance of wetland vegetation and provide their location on a plan view.
- (7) Delineate any areas of the Environmental Features Setback that are being mowed or are dominated by invasive species.
- (8) Document any sightings or evidence of wading birds, songbirds, waterfowl, amphibians, reptiles, and other animal use (lodges, nests, tracks, scat, etc.) within the wetland noted during monitoring. Note the number, type, date, and hour of the sightings and evidence.
- (9) Inspect the site during all monitoring visits and inspections for oil, grease, man-made debris, and all other contaminants and report findings. Rate (e.g., poor, fair, good, excellent) and describe the water clarity in the mitigation wetland.
- (10) Provide annual photographic documentation of the development of the mitigation wetland and Environmental Features Setback areas during vegetation sampling from permanent photo stations located within the mitigation wetland. At a minimum, photo stations shall be located on both ends of each transect. Photos must be labeled with the location, date photographed, and direction.
- (11) Provide one-time photographic documentation of at least 6 inches of high quality soil, from the A horizon of an organic or loamy surface texture soil, across the site during construction.
- (12) Provide one-time photographic documentation of the preservation signage and/or demarcation of the Environmental Features Setback areas.
- (13) Provide the number and type of habitat structures placed and representative photographs of each structure type.
- (14) Provide a written summary of data from previous monitoring periods and a discussion of changes or trends based on all monitoring including a calculation of the acres of each wetland type established.
- (15) Provide a written summary of all the problems that have been identified and potential corrective measures to address them.
- (16) Two (2) copies of a monitoring report which compiles and summarizes all data collected during the monitoring period shall be submitted annually by the owner. Monitoring reports shall cover the period of January 1 through December 31 and be submitted to the Township prior to January 31 of the following year.

V. SEAWALL AND BEACH SANDING CONDITIONS

- A pre-construction meeting between the owner and the Environmental Director and any contractors/subcontractors is required prior to any seawall construction or activities involving beach sanding. At this time, the exact location of the ordinary high water mark shall be measured and documented using bench marks in the field by the Environmental Director, Environmental Inspector prior to construction.
- Seawalls (of any material) must be installed at or above the ordinary high water mark (OHWM) of a watercourse. A filter fabric shall be installed behind any proposed seawall.
- Vertical seawalls (of any material) are not permitted where vertical walls do not currently exist.
- Boulder seawalls will be installed on a 1:1 slope (45 degree angle), approved geotextile fabric shall be installed behind the proposed seawall, and approved stone backfill shall be used to provide adequate drainage.
- Four to eight inch diameter natural cobblestone must be placed at a minimum width of 12 inches at the toe of the entire length of the seawall.
- For beach sanding, the material must be obtained from a source approved by the Environmental Director, and must be clean, non-polluting, and free of debris, organic materials, and/or waste metal products.

Appendix A

Native Plant/Seed Suppliers



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

NATIVE SEED/PLANT NURSERIES

SEED	PLANTS
Spence Restoration Nursery 2220 East Fuson Road Muncie, IN 47302 Phone: (765) 286-7154 Fax: (765) 286-0264 www.spencenursery.com	Alpha Nurseries, Inc 3737 65th Street Holland, MI 49423 Phone: (269) 857-7804 Fax: (269) 857-8162 www.alphanurseries.com
NativeScape, LLC 10380 Clinton Road Manchester, MI 48158 Phone: (517) 456-9696 www.nativescape.net	The Native Plant Nursery, LLC P.O. Box 7841 Ann Arbor, Michigan 48107 Phone: (734) 677-3260 www.nativeplant.com
Wild Type, Ltd. 900 N. Every Road Mason, MI 48854 Phone: (517) 244-1140 Fax: (517) 244-1142 www.wildtypeplants.com	Wild Type, Ltd. 900 N. Every Road Mason, MI 48854 Phone: (517) 244-1140 Fax: (517) 244-1142 www.wildtypeplants.com
Ernst Conservation Seeds 9006 Mercer Pike Road Meadville, PA 16335 Phone: (814) 336-2404 Fax: (814) 336-5191 ernstsales@ernstseed.com	Wetlands Nursery PO Box 14553 Saginaw, MI 48601 Phone: (989) 752.3492 Fax: (989) 752.3096 Web: www.wetlands-nursery.com
JF New 128 Sunset Drive Walkerton, IN 46574 Phone: (574) 586-2412 Fax: (574) 586-2718 www.jfnew.com	JF New 128 Sunset Drive Walkerton, IN 46574 Phone: (574) 586-2412 Fax: (574) 586-2718 www.jfnew.com

Appendix B

Native Tree and Shrub List

and

Approved Wetland Plant List



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

NATIVE TREE/SHRUB LIST

TREES		SHRUBS	
SPECIES	HABITAT	SPECIES	HABITAT
American Beech <i>Fagus grandifolia</i>	Dry	Alder (speckled) <i>Alnus rugosa</i>	Wet
Birch (yellow) <i>Betula allegheniensis</i>	Mesic	Arrowwood <i>Viburnum dentatum</i>	Mesic
Birch (paper) <i>Betula papyrifera</i>	Dry	Bayberry <i>Myrica pensylvanica</i>	Dry
Black Cherry <i>Prunus serotina</i>	Dry	Buttonbush <i>Cephalanthus occidentalis</i>	Wet
Black Gum <i>Nyssa sylvatica</i>	Mesic	Chokeberry <i>Aronia melanocarpa</i>	Dry
Black Walnut <i>Juglans nigra</i>	Dry	Cranberry <i>Viburnum trilobum</i>	Mesic
Eastern White Cedar <i>Thuja occidentalis</i>	Mesic	Dogwood (gray) <i>Cornus foemina</i>	Mesic
Eastern Hophornbeam <i>Ostrya virginiana</i>	Dry	Dogwood (silky) <i>Cornus amomum</i>	Wet
Hickory (bitternut) <i>Carya cordiformis</i>	Dry	Dogwood (red-osier) <i>Cornus stolonifera</i>	Wet
Hickory (pignut) <i>Carya glabra</i>	Dry	Elderberry <i>Sambucus canadensis</i>	Wet
Hickory (shagbark) <i>Carya ovata</i>	Dry	Musclewood <i>Carpinus caroliniana</i>	Mesic
Hickory (shellbark) <i>Carya laciniosa</i>	Mesic	Nannyberry <i>Viburnum lentago</i>	Mesic
Larch/Tamarack <i>Larix laricina</i>	Wet	Ninebark <i>Physocarpus opulifolius</i>	Wet
Maple (red) <i>Acer rubrum</i>	Mesic	Spicebush <i>Lindera benzoin</i>	Wet
Maple (silver) <i>Acer saccharinum</i>	Wet	Swamp Rose <i>Rosa palustris</i>	Wet
Maple (sugar) <i>Acer saccharum</i>	Dry	Winterberry <i>Ilex verticillata</i>	Wet
Musclewood <i>Carpinus caroliniana</i>	Mesic	Witch Hazel <i>Hamamelis virginiana</i>	Dry
Oak (bur) <i>Quercus macrocarpa</i>	Dry		
Oak (black) <i>Quercus velutina</i>	Dry		
Oak (pin) <i>Quercus palustris</i>	Wet		
Oak (red) <i>Quercus rubra</i>	Dry		
Oak (white) <i>Quercus alba</i>	Dry		
Oak (swamp white) <i>Quercus bicolor</i>	Wet		
Pine (white) <i>Pinus strobus</i>	Dry		
Pine (red) <i>Pinus resinosa</i>	Dry		
Redbud <i>Cercis canadensis</i>	Dry		
Serviceberry <i>Amelanchier canadensis</i>	Dry		
Spruce (black) <i>Picea mariana</i>	Wet		
Spruce (white) <i>Picea glauca</i>	Dry		
Sweet Gum <i>Liquidambar styraciflua</i>	Dry		
Sycamore <i>Platanus occidentalis</i>	Wet		
Witch Hazel <i>Hamamelis virginiana</i>	Dry		



List of Suitable Plants for Wetland and Wetland Buffer Landscapes

	Botanical Name	Common Name	Indicator Status
Trees	<i>Acer rubrum</i>	red maple	FAC
	<i>Acer saccharinum</i>	silver maple	FACW
	<i>Betula alleghaniensis</i>	yellow birch	FAC
	<i>Carpinus caroliniana</i>	musclewood/blue-beech	FAC
	<i>Carya laciniosa</i>	shellbark hickory	FACW
	<i>Nyssa sylvatica</i>	black gum	FACW+
	<i>Picea mariana</i>	black spruce	FACW
	<i>Platanus occidentalis</i>	sycamore	FACW
	<i>Quercus palustris</i>	pin oak	FACW
	<i>Quercus bicolor</i>	swamp white oak	FACW+
	<i>Salix nigra</i>	black willow	OBL
Shrubs	<i>Alnus rugosa</i>	tag/speckled alder	OBL
	<i>Aronia melonocarpa (A. prunifolia)</i>	black chokeberry	FACW
	<i>Carpinus caroliniana</i>	musclewood/blue-beech	FAC
	<i>Cephalanthus occidentalis</i>	buttonbush	OBL
	<i>Cornus amomum</i>	silky dogwood	FACW+
	<i>Cornus foemina (C. racemosa)</i>	gray dogwood	FACW-
	<i>Cornus stolonifera</i>	red-osier dogwood	FACW
	<i>Ilex verticillata</i>	winterberry/Michigan holly	FACW+
	<i>Lindera benzoin</i>	spicebush	FACW-
	<i>Potentilla fruticosa</i>	shrubby cinquefoil	FACW
	<i>Physocarpus opulifolius</i>	ninebark	FACW-
	<i>Rosa palustris</i>	swamp rose	OBL
	<i>Sambucus canadensis</i>	elderberry	FACW-
	<i>Salix discolor</i>	pussy willow	FACW
	<i>Spiraea alba</i>	meadowsweet	FACW+
	<i>Spiraea tomentosa</i>	steeplebush	FACW
	<i>Viburnum dentatum</i>	arrow-wood viburnum	FACW-
	<i>Viburnum lentago</i>	nannyberry	FAC+
<i>Viburnum opulus var. americanum</i>	highbush cranberry	FACW	
<i>Viburnum trilobum</i>	cranberrybush viburnum	FACW	
Herbaceous	<i>Asclepias incarnata</i>	swamp milkweed	OBL
Perennials	<i>Aster dumosus</i>	bushy aster	FAC+
	<i>Aster lanceolatus</i>	Eastern lined aster	FACW
	<i>Aster novae-angliae</i>	New England aster	FACW
	<i>Aster puniceus</i>	swamp aster	OBL
	<i>Aster umbellatus</i>	flat-top white aster	FACW
	<i>Bidens cernua</i>	nodding bur marigold	OBL
	<i>Bidens coronatus</i>	tall bur tickseed	OBL
	<i>Bidens frondosa</i>	devil's beggar-ticks	FACW
	<i>Epilobium coloratum</i>	purple willow herb	OBL
	<i>Eupatorium maculatum</i>	joe-pye weed	OBL
	<i>Eupatorium perfoliatum</i>	boneset	FACW+
	<i>Euthamia graminifolia</i>	slender-fragrant goldenrod	FACW-
	<i>Helenium autumnale</i>	sneezeweed	FACW+
	<i>Helianthus giganteus</i>	tall sunflower	FACW
	<i>Helianthus grosseserratus</i>	sawtooth sunflower	FACW-



Herbaceous	<i>Hypericum canadense</i>	Canadian St. John's wort	FACW
Perennials	<i>Iris versicolor</i>	blue flag iris	OBL
	<i>Liatris spicata</i>	marsh blazing star	FAC
	<i>Lobelia cardinalis</i>	cardinal flower	OBL
	<i>Lobelia siphilitica</i>	great blue lobelia	FACW+
	<i>Mentha arvensis</i>	wild mint	FACW
	<i>Mimulus ringens</i>	monkeyflower	OBL
	<i>Myositis laxa</i>	small forget-me-not	OBL
	<i>Myositis verna</i>	white forget-me-not	FAC-
	<i>Physostegia virginiana</i>	obedient plant	FACW
	<i>Rudbeckia hirta</i>	black-eyed susan	FACU
	<i>Rudbeckia laciniata</i>	cut-leaved coneflower	FACW+
	<i>Rudbeckia triloba</i>	three-lobed coneflower	FAC-
	<i>Senna hebecarpa</i>	wild senna	FACW
	<i>Solidago gigantea</i>	giant/late goldenrod	FACW
	<i>Solidago ohioensis</i>	ohio goldenrod	OBL
	<i>Solidago riddellii</i>	Riddell's goldenrod	OBL
	<i>Tradescantia ohimensis</i>	common spiderwort	FACU+
	<i>Verbena hastata</i>	blue vervain	FACW+
	<i>Verbesina alternifolia</i>	wingstem	FACW
	<i>Zizia aurea</i>	golden Alexanders	FAC+
Emergents	<i>Acorus calamus</i>	sweetflag	OBL
	<i>Alisma subcordatum</i>	water plantain	OBL
	<i>Eleocharis obtusa</i>	spikerush	OBL
	<i>Eleocharis ovata</i>	spikerush	OBL
	<i>Eleocharis palustris</i>	great spikerush	OBL
	<i>Leersia oryzoides</i>	rice cutgrass	OBL
	<i>Peltandra virginica</i>	arrow-arum	OBL
	<i>Pontederia cordata</i>	pickerelweed	OBL
	<i>Sagittaria latifolia</i>	broad-leaved arrowhead	OBL
	<i>Sparganium eurycarpum</i>	burreed	OBL
Floating	<i>Brasenia schreberi</i>	water shield	OBL
Attached	<i>Nuphar lutea</i>	yellow water-lily	OBL
	<i>Nymphaea odorata</i>	white water-lily	OBL
Grasses	<i>Agrostis gigantea</i>	redtop	FACW
	<i>Andropogon gerardii</i>	big bluestem	FAC-
	<i>Andropogon virginicus</i>	broom-sedge	FAC-
	<i>Calamagrostis canadensis</i>	blue-joint reed grass	OBL
	<i>Glyceria borealis</i>	northern manna grass	OBL
	<i>Glyceria grandis</i>	giant manna grass	OBL
	<i>Glyceria canadensis</i>	rattlesnake manna grass	OBL
	<i>Glyceria striata</i>	fowl manna grass	OBL
	<i>Leersia oryzoides</i>	rice cutgrass	OBL
	<i>Panicum virgatum</i>	red switch grass	FAC+
	<i>Spartina pectinata</i>	prairie cord-grass	FACW+



Sedges	<i>Carex atherodes</i>	slough sedge	OBL
	<i>Carex bebbii</i>	Bebb's oval sedge	OBL
	<i>Carex comosa</i>	bottlebrush sedge	OBL
	<i>Carex cristatella</i>	crested oval sedge	OBL
	<i>Carex frankii</i>	bristly cattail sedge	OBL
	<i>Carex hystericina</i>	porcupine sedge	OBL
	<i>Carex lacustris.</i>	lakebank sedge	OBL
	<i>Carex lanuginosa</i>	woolly sedge	OBL
	<i>Carex lurida</i>	bottlebrush sedge	OBL
	<i>Carex stricta</i>	hummock sedge	OBL
	<i>Carex vulpinoidea</i>	fox sedge	OBL
Rushes	<i>Juncus canadensis</i>	canadian rush	OBL
	<i>Juncus effusus</i>	soft rush	OBL
	<i>Juncus tenuis</i>	path rush	FAC
	<i>Juncus torreyi</i>	Torrey's rush	OBL
	<i>Scirpus acutus</i>	hardstem bulrush	OBL
	<i>Scirpus atrovirens</i>	green bulrush	OBL
	<i>Scirpus cyperinus</i>	woolgrass	OBL
	<i>Scirpus fluviatilis</i>	river bulrush	OBL
	<i>Scirpus pungens</i>	three-square bulrush	OBL
		<i>Scirpus validus</i>	softstem bulrush
Ferns	<i>Matteuccia struthiopteris</i>	ostrich fern	FACW
	<i>Onoclea sensibilis</i>	sensitive fern	FACW
	<i>Osmunda cinnamomea</i>	cinnamon fern	FACW
	<i>Osmunda regalis</i>	royal fern	OBL
	<i>Thelypteris thelypteroides</i>	marsh fern	FACW+

Seed Mix Emergent Wetland Seed Mix (Wetland)
Wetland Edge Seed Mix (25' EFS)
Forested Wetland Seed Mix
Rain Garden Seed Mix

Indicator Status:

- OBL** Obligate Wetland - Occurs with est. 99% probability in wetlands
- FACW** Facultative Wetland - Est. 67%-99% probability of occurrence in wetlands
- FAC** Facultative- Equally likely to occur in wetlands & non-wetlands w/ 34%-66% probability
- UPL** Obligate Upland - >99% non-wetlands in this region

Appendix C

Sample Seed Mixes



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Wetland Edge Seed Mix

Sedges and Grasses

<i>Carex comosa</i>	bristly sedge
<i>Carex cristatella</i>	crested oval sedge
<i>Carex lurida</i>	bottlebrush sedge
<i>Carex vulpinoidea</i>	fox sedge
<i>Eleocharis palustris</i>	spikerush
<i>Elymus virginicus</i>	Virginia wild rye
<i>Glyceria striata</i>	fowl manna grass
<i>Leersia oryzoides</i>	rice cutgrass
<i>Scirpus atrovirens</i>	green bulrush
<i>Scirpus cypernius</i>	woolgrass
<i>Scirpus americanus</i>	common three-square
<i>Scirpus validus</i>	great bulrush
<i>Sparganium eurycarpum</i>	burreed

Temporary Grasses

<i>Avena sativa</i>	common oats
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Acorus calamus</i>	sweet flag
<i>Verbesina alternifolia</i>	wingstem
<i>Alisma</i> spp.	water plantain
<i>Asclepias incarnata</i>	swamp milkweed
<i>Aster puniceus</i>	bristly aster
<i>Bidens</i> spp.	beggar's tick
<i>Decodon verticillatus</i>	swamp loosestrife
<i>Eupatorium perfoliatum</i>	boneset
<i>Helenium autumnale</i>	sneezeweed
<i>Iris virginica</i>	blue flag iris
<i>Lobelia siphilitica</i>	great blue lobelia
<i>Mimulus ringens</i>	monkey flower
<i>Peltandra virginica</i>	arrow arum
<i>Rudbeckia laciniata</i>	wild golden glow
<i>Sagittaria latifolia</i>	arrowhead
<i>Cassia hebecarpa</i>	wild senna
<i>Thalictrum dasycarpum</i>	late meadow rue
<i>Verbena hastata</i>	vervain
<i>Vernonia</i> spp.	ironweed



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Emergent Wetland Seed Mix

Sedges and Grasses

<i>Carex comosa</i>	bristly sedge
<i>Carex lacustris</i>	common lake sedge
<i>Carex lurida</i>	bottlebrush sedge
<i>Carex vulpinoidea</i>	brown fox sedge
<i>Eleocharis ovata</i>	blunt spike rush
<i>Juncus effusus</i>	common rush
<i>Leersia orzyoides</i>	rice cutgrass
<i>Scirpus acutus</i>	hard-stemmed bulrush
<i>Scirpus americanus</i>	common three-square
<i>Scirpus validus</i>	soft-stem bulrush

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Acorus calamus</i>	sweet flag
<i>Asclepias incarnata</i>	swamp milkweed
<i>Alisma</i> spp.	water plantain
<i>Cephalanthus occidentalis</i>	buttonbush
<i>Decodon verticillatus</i>	swamp loosestrife
<i>Eupatorium maculatum</i>	spotted joe-pye weed
<i>Iris virginica</i>	blue flag iris
<i>Lobelia cardinalis</i>	cardinal flower
<i>Lobelia siphilitica</i>	great blue lobelia
<i>Mimulus ringens</i>	monkey flower
<i>Peltandra virginica</i>	arrow arum
<i>Pontederia cordata</i>	pickerel weed
<i>Sagittaria latifolia</i>	arrowhead
<i>Sparganium</i> spp.	burreed
<i>Verbena hastata</i>	vervain



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Forested Wetland Seed Mix

Sedges and Grasses

<i>Calamagrostis canadensis</i>	bluejoint grass
<i>Carex crinita</i>	fringed sedge
<i>Carex lupulina</i>	common hop sedge
<i>Carex lurida</i>	bottlebrush sedge
<i>Carex squarosa</i>	narrow-leaf sedge
<i>Carex sparganioides</i>	clustered sedge
<i>Carex vulpinoidea</i>	fox sedge
<i>Elymus virginicus</i>	Virginia wild rye
<i>Glyceria striata</i>	fowl manna grass
<i>Leersia oryzoides</i>	rice cutgrass
<i>Scirpus atrovirens</i>	green rush
<i>Spartina pectinata</i>	prairie cordgrass

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Alisma</i> spp.	water plantain
<i>Angelica altropurpurea</i>	great angelica
<i>Aster puniceus</i>	bristly aster
<i>Aster umbellatus</i>	flat-top aster
<i>Bidens cernua</i>	nodding bur marigold
<i>Campanula americanus</i>	tall bellflower
<i>Cephalanthus occidentalis</i>	buttonbush
<i>Helenium autumnale</i>	sneezeweed
<i>Heracleum maximum</i>	cow parsnip
<i>Lobelia siphilitica</i>	great blue lobelia
<i>Mimulus ringens</i>	monkey flower
<i>Rudbeckia laciniata</i>	wild golden glow
<i>Verbesina alternifolia</i>	wingstem



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Open/Dry Woodland Seed Mix

Sedges and Grasses

<i>Bromus pubescens</i>	woodland brome
<i>Andropogon gerardii</i>	big bluestem
<i>Carex cephalophora</i>	bracked oak sedge
<i>Carex sparganioides</i>	burreed sedge
<i>Elymus canadensis</i>	Canada wild rye
<i>Elymus villosus</i>	silky wild rye
<i>Hystrix patula</i>	bottlebrush grass
<i>Schizachyrium scoparium</i>	little bluestem
<i>Sorghastrum nutans</i>	Indian grass

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Actaea rubra</i>	red baneberry
<i>Allium cernuum</i>	nodding wild onion
<i>Anemone cylindrica</i>	thimbleweed
<i>Aquilegia canadensis</i>	columbine
<i>Asclepias tuberosa</i>	butterfly weed
<i>Aster novae-angliae</i>	New England aster
<i>Baptista tinctori</i>	wild indigo
<i>Cacalai atriplicifolia</i>	pale Indian plantain
<i>Helianthus strumosus</i>	woodland sunflower
<i>Lespedeza capitata</i>	round bushclover
<i>Lupinus perennis</i>	wild lupine



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Mesic Woodland Seed Mix

Sedges and Grasses

<i>Agrostis perennans</i>	upland bent grass
<i>Andropogon gerardii</i>	big bluestem
<i>Carex cephalophora</i>	bracted oak sedge
<i>Carex sparganioides</i>	burreed sedge
<i>Cinna arundinacea</i>	wood reed
<i>Elymus canadensis</i>	Canada wild rye
<i>Elymus virginicus</i>	Virginia wild rye
<i>Glyceria striata</i>	fowl manna grass
<i>Hystrix patula</i>	bottlebrush grass
<i>Panicum virgatum</i>	switchgrass
<i>Sorghastrum nutans</i>	Indian grass
<i>Spartina pectinata</i>	prairie cordgrass

Temporary Grasses

<i>Avena sativa</i>	common oats
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Allium tricoccum</i>	wild leek
<i>Aquilegia canadensis</i>	columbine
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit
<i>Aster cordifolius</i>	heart-leaved aster
<i>Aster macrophyllus</i>	big leaved aster
<i>Aster novae-angliae</i>	New England aster
<i>Aster shortii</i>	Short's aster
<i>Eupatorium purpureum</i>	purple Joe-pye weed
<i>Eupatorium rugosm</i>	white snakeroot
<i>Geum vernum</i>	spring avens
<i>Heliopsis helianthoides</i>	ox-eye sunflower
<i>Helianthus strumosus</i>	woodland sunflower
<i>Lobelia siphilitica</i>	great blue lobelia
<i>Penstemon digitalis</i>	foxglove beardtongue
<i>Rudbeckia hirta</i>	black-eyed Susan
<i>Solidago altissima</i>	tall goldenrod
<i>Solidago caesia</i>	blue-stem goldenrod
<i>Solidago flexicaulis</i>	zig zag goldenrod
<i>Solidago ulmifolia</i>	elm-leaved goldenrod
<i>Thalictrum dasycarpum</i>	purple meadow rue
<i>Verbesina alternifolia</i>	wingstem
<i>Veronicastrum virginicum</i>	culver's root
<i>Vernonia gigantea</i>	ironweed
<i>Zizia aurea</i>	golden alexanders



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Rain Garden Seed Mix

Sedges and Grasses

<i>Andropogon gerardii</i>	big bluestem
<i>Carex comosa</i>	bristly sedge
<i>Carex lurida</i>	bottlebrush sedge
<i>Carex vulpinoidea</i>	fox sedge
<i>Elymus canadensis</i>	Canada wild rye
<i>Elymus virginicus</i>	Virginia wild rye
<i>Glyceria striata</i>	fowl manna grass
<i>Juncus effuses</i>	soft rush
<i>Scirpus atrovirens</i>	green bulrush
<i>Sorghastrun nutans</i>	Indian grass
<i>Spartina pectinata</i>	prairie cordgrass
<i>Panicum clandestinum</i>	deertongue

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Aster novae-angliae</i>	New England aster
<i>Aster dumosus</i>	bushy aster
<i>Heliopsis helianthoides</i>	false sunflower
<i>Liatris spicata</i>	marsh blazing star
<i>Lobelia cardinalis</i>	cardinal flower
<i>Lobelia siphilitica</i>	great blue lobelia
<i>Lobelia spicata</i>	pale spiked lobelia
<i>Monarda fistulosa</i>	wild bergamot (beebalm)
<i>Penstemon digitalis</i>	smooth penstemon
<i>Pycnanthemum virginianum</i>	mountain mint
<i>Pycnanthemum tenuifolium</i>	slender mountain mint
<i>Ratibita pinnata</i>	yellow coneflower
<i>Rudbeckia hirta</i>	black-eyed Susan
<i>Rudbeckia laciniata</i>	wild golden glow
<i>Silphium terebinthinaceum</i>	prairie dock
<i>Solidago graminifolia</i>	grass-leaf goldenrod
<i>Zizia aurea</i>	golden alexanders



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Mesic Shade Tolerant Woodland Seed Mix

Sedges and Grasses

<i>Bromus pubescens</i>	woodland brome
<i>Carex brevior</i>	sedge
<i>Carex cephalophora</i>	bracked oak sedge
<i>Carex gracillima</i>	graceful sedge
<i>Carex jamesii</i>	James' sedge
<i>Carex laxiflora</i>	sedge
<i>Carex pensylvanica</i>	common oak sedge
<i>Carex sparganioides</i>	burreed sedge
<i>Elymus canadensis</i>	Canada wild rye
<i>Elymus virginicus</i>	Virginia wild rye
<i>Elymus hystrix</i>	bottlebrush grass

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Shrubs

<i>Cephalanthus occidentalis</i>	buttonbush
<i>Cornus amomum</i>	silky dogwood
<i>Ilex verticillata</i>	winterberry
<i>Physocarpus opulifolius</i>	ninebark
<i>Viburnum trilobum</i>	highbush cranberry
<i>Viburnum dentatum</i>	arrowwood
<i>Viburnum lentago</i>	nannyberry

Forbs/Wildflowers

<i>Actaea racemosa</i>	black cohosh (black snakeroot)
<i>Actaea rubra</i>	red baneberry
<i>Allium cernuum</i>	nodding wild onion
<i>Anemone cylindrica</i>	thimbleweed
<i>Anemone canadensis</i>	Canadian anemone
<i>Anemone quinquefolia</i>	wood anemone
<i>Aquilegia canadensis</i>	Eastern columbine
<i>Cacalai atriplicifolia</i>	pale Indian plantain
<i>Clintonia borealis</i>	blue-bead lily
<i>Geum canadense</i>	white avens
<i>Geum vernum</i>	spring avens
<i>Helianthus strumosus</i>	woodland sunflower
<i>Lespedeza capitata</i>	round bushclover
<i>Penstemon digitalis</i>	foxglove beardtongue
<i>Smilacina racemosa</i>	false solomon's seal
<i>Thalyctrum diocium</i>	early meadowrue
<i>Verbesina alternifolia</i>	wingstem



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Salt Tolerant Roadside Seed Mix - Dry

Sedges and Grasses

<i>Panicum virgatum</i>	switchgrass
<i>Schizachyrium scoparium</i>	little bluestem

Temporary Grasses

<i>Avena sativa</i>	common oat
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Aster laevis</i>	smooth aster
<i>Asclepias tuberosa</i>	butterfly weed
<i>Coreopsis lanceolata</i>	sand coreopsis
<i>Liatris aspera</i>	rough blazing star
<i>Rudbeckia hirta</i>	black-eyed Susan
<i>Solidago rigida</i>	stiff goldenrod
<i>Verbena stricta</i>	hoary vervain



WETLAND/ENVIRONMENTAL MITIGATION MANUAL

CHARTER TOWNSHIP OF WEST BLOOMFIELD

SAMPLE SEED MIXES

Salt Tolerant Roadside Seed Mix – Mesic/Wet

Sedges and Grasses

<i>Eleocharis palustris</i>	spikerush
<i>Juncus canadensis</i>	Canadian rush
<i>Juncus torreyi</i>	Torrey's rush
<i>Panicum virgatum</i>	switchgrass
<i>Scirpus acutus</i>	hard-stemmed bulrush
<i>Scirpus americanus</i>	common three square
<i>Scirpus validus</i>	great bulrush
<i>Spartina pectinata</i>	prairie cordgrass

Temporary Grasses

<i>Avena sativa</i>	common oats
<i>Lolium multiflorum</i>	annual rye

Forbs/Wildflowers

<i>Aster puniceus</i>	bristly aster
<i>Bidens cernuus</i>	nodding bur marigold
<i>Boltonia asteroides</i>	false aster
<i>Eupatorium perfoliatum</i>	boneset
<i>Lathyrus palustris</i>	marsh pea
<i>Physostegia virginiana</i>	false dragonhead
<i>Sagittaria rigida</i>	stiff arrowhead
<i>Sium suave</i>	water parsnip
<i>Zizania aurea</i>	golden alexanders

Appendix D

Floristic Quality Assessment (FQA)
(Listed as Appendix C in State FQA Manual)

APPENDIX C

MICHIGAN PLANTS DATABASE - 2001

Compiled by:

M. R. Penskar, A. A. Reznicek, W. W. Brodovich, G. S. Wilhelm, L. A. Masters, K. D. Herman,
and K. P. Gardiner.

This state flora database was developed for use with the Floristic Quality Assessment system for the State of Michigan for which the application is discussed in the main body of this publication. Although the list is quite comprehensive, it represents a **utility database only** and should not be considered a state flora treatment. The list was compiled by consulting several floristic and taxonomic sources, and also represents our collective field knowledge and taxonomic judgment for numerous taxa. Because the list was prepared in this way, it cannot be fully reconciled with treatments prepared by such floristicians as Voss (1996, 1985, 1972), Gleason & Cronquist (1991), or others. It is anticipated that the list will be periodically updated to incorporate information on new taxa identified for Michigan and to adopt contemporary nomenclature where we feel it is appropriate. Questions or comments about this database and its compilation can be directed primarily to M. R. Penskar and A. A. Reznicek.

This database is sorted alphabetically by scientific name.

- KEY** **ACRONYM** = Six digit reference code for each taxa
 C = Coefficient of conservatism
 * = Adventive taxa [defaults to 0 (zero) in the 2000 FQA Computer Program]
 ST = Status as recognized by the State of MI
 X = Extirpated
 E = Endangered
 T = Threatened
 SC = Special concern
- W** = Wetness coefficient
 WET = Michigan wetland categories
 [] = Assigned for Michigan
- PHYS** = Physiognomy
 AD = Adventive taxa
 NT = Native taxa
 A = Annual
 B = Biennial
 P = Perennial

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ABEESC	*	ABELMOSCHUS ESCULENTUS		5	[UPL]	Ad A-Forb	OKRA; GUMBO
ABIBAL	3	Abies balsamea		-3	FACW	Nt Tree	BALSAM FIR
ABUTHE	*	ABUTILON THEOPHRASTI		4	FACU-	Ad A-Forb	VELVETLEAF
ACAGRA	*	ACALYPHA GRACILENS		5	[UPL]	Ad A-Forb	SLENDER MERCURY
ACARHO	0	Acalypha rhomboidea		3	FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACAVTR	*	ACALYPHA VIRGINICA		3	FACU	Ad A-Forb	THREE-SEEDED MERCURY
ACEGIN	*	ACER GINNALA		5	[UPL]	Ad Tree	AMUR MAPLE
ACENEG	0	Acer negundo		-2	FACW-	Nt Tree	BOX ELDER
ACENIG	4	Acer nigrum		3	[FACU]	Nt Tree	BLACK MAPLE
ACEPEN	5	Acer pensylvanicum		3	FACU	Nt Tree	STRIPED MAPLE
ACEPLA	*	ACER PLATANOIDES		5	[UPL]	Ad Tree	NORWAY MAPLE
ACEPSE	*	ACER PSEUDOPLATANUS		5	[UPL]	Ad Tree	SYCAMORE MAPLE
ACERUB	1	Acer rubrum		0	FAC	Nt Tree	RED MAPLE
ACESAI	2	Acer saccharinum		-3	FACW	Nt Tree	SILVER MAPLE
ACESAU	5	Acer saccharum		3	FACU	Nt Tree	SUGAR MAPLE
ACESPI	5	Acer spicatum		3	FACU	Nt Tree	MOUNTAIN MAPLE
ACHFIL	*	ACHILLEA FILIPENDULINA		5	[UPL]	Ad P-Forb	YELLOW YARROW

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ACHMIL	1	Achillea millefolium		3	FACU	Nt P-Forb	YARROW
ACHPTA	*	ACHILLEA PTARMICA		0	[FAC]	Ad P-Forb	SNEEZEWEED
ACIARV	*	ACINOS ARVENSIS (SATUREJA ACINOS)		5	[UPL]	Ad A-Forb	CALAMINT
ACOCAL	6	Acorus calamus		-5	OBL	Nt P-Forb	SWEET-FLAG
ACTPAC	7	Actaea pachypoda		5	[UPL]	Nt P-Forb	DOLL'S-EYES
ACTRUB	7	Actaea rubra		5	[UPL]	Nt P-Forb	RED BANEBERRY
ADEBIC	8	Adenocaulon bicolor		3	[FACU]	Nt P-Forb	TRAIL-PLANT
ADIPED	6	Adiantum pedatum		1	FAC-	Nt Fern	MAIDENHAIR FERN
ADLFUN	4	Adlumia fungosa	SC	5	[UPL]	Nt B-Forb	CLIMBING FUMITORY
AEGCYL	*	AEGILOPS CYLINDRICA		5	[UPL]	Ad A-Grass	JOINTED GOAT-GRASS
AEGPOD	*	AEGOPODIUM PODAGRARIA		0	FAC	Ad P-Forb	GOUTWEED
AESGLA	6	Aesculus glabra		-1	FAC+	Nt Tree	OHIO BUCKEYE
AESHIP	*	AESCULUS HIPPOCASTANUM		5	[UPL]	Ad Tree	HORSE-CHESTNUT
AETCYN	*	AETHUSA CYNAPIUM		5	[UPL]	Ad A-Forb	FOOL'S PARSLEY
AGAGAT	10	Agalinis gattereri (Gerardia g.)	E	-3	[FACW]	Nt A-Forb	GATTINGER'S GERARDIA
AGAPUR	7	Agalinis purpurea (Gerardia p.)		-3	FACW	Nt A-Forb	PURPLE GERARDIA
AGASKI	10	Agalinis skinneriana	E	-3	[FACW]	Nt A-Forb	SKINNER'S GERARDIA
AGATEN	5	Agalinis tenuifolia		-3	FACW	Nt A-Forb	COMMON GERARDIA
AGAFOE	*	AGASTACHE FOENICULUM		5	[UPL]	Ad P-Forb	BLUE GIANT HYSSOP
AGANEP	5	Agastache nepetoides		3	FACU	Nt P-Forb	YELLOW GIANT HYSSOP
AGASCR	5	Agastache scrophulariaefolia		5	[UPL]	Nt P-Forb	PURPLE GIANT HYSSOP
AGOGLA	9	Agoseris glauca	T	3	FACU	Nt P-Forb	PRAIRIE or PALE AGOSERIS
AGRGRY	2	Agrimonia gryposepala		2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRPAR	4	Agrimonia parviflora		-1	FAC+	Nt P-Forb	SWAMP AGRIMONY
AGRPUB	5	Agrimonia pubescens		5	[UPL]	Nt P-Forb	SOFT AGRIMONY
AGRROS	8	Agrimonia rostellata	SC	3	FACU	Nt P-Forb	BEAKED AGRIMONY
AGRSTR	3	Agrimonia striata		1	FAC-	Nt P-Forb	AGRIMONY
AGRDAS	10	Agropyron dasystachyum		4	FACU-	Nt P-Grass	WHEAT GRASS
AGRREP	*	AGROPYRON REPENS		3	FACU	Ad P-Grass	QUACK GRASS
AGRSMI	*	AGROPYRON SMITHII		2	FACU+	Ad P-Grass	SMITH'S WHEAT GRASS
AGRSPI	10	Agropyron spicatum	X	5	[UPL]	Nt P-Grass	BLUEBUNCH WHEAT GRASS
AGRTRA	8	Agropyron trachycaulum		0	FAC	Nt P-Grass	SLENDER WHEAT GRASS
AGRGIT	*	AGROSTEMMA GITHAGO		3	[FACU]	Ad P-Forb	CORN-CKOCKLE
AGRCAN	*	AGROSTIS CANINA		5	[UPL]	Ad P-Grass	VELVET BENT
AGRGIG	*	AGROSTIS GIGANTEA		0	[FAC]	Ad P-Grass	REDTOP
AGRHYE	4	Agrostis hyemalis		1	FAC-	Nt P-Grass	TICKLEGRASS
AGRPER	5	Agrostis perennans		1	FAC-	Nt P-Grass	AUTUMN BENT GRASS
AGRSTO	*	AGROSTIS STOLONIFERA		-3	FACW	Ad P-Grass	CREEPING BENT
AGRTEN	*	AGROSTIS TENUIS		4	[FACU-]	Ad P-Grass	COLONIAL BENT
AILALT	*	AILANTHUS ALTISSIMA		5	UPL	Ad Tree	TREE-OF-HEAVEN
AJUGEN	*	AJUGA GENEVENSIS		5	[UPL]	Ad P-Forb	BUGLE
AJUREP	*	AJUGA REPTANS		5	[UPL]	Ad P-Forb	CARPET BUGLE
AKEQUI	*	AKEBIA QUINATA		5	[UPL]	Ad W-Vine	CHOCOLATE-VINE
ALEFAR	10	Aletris farinosa		0	FAC	Nt P-Forb	COLIC ROOT
ALIPLA	1	Alisma plantago-aquatica		-5	OBL	Nt P-Forb	WATER-PLANTAIN
ALLPET	*	ALLIARIA PETIOLATA		0	FAC	Ad B-Forb	GARLIC MUSTARD
ALLBUR	7	Allium burdickii		3	[FACU]	Nt P-Forb	WILD LEEK
ALLCAN	4	Allium canadense		3	FACU	Nt P-Forb	WILD GARLIC
ALLCEP	*	ALLIUM CEPA		5	[UPL]	Ad P-Forb	ONION
ALLCER	5	Allium cernuum		5	[UPL]	Nt P-Forb	NODDING WILD ONION

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ALLROT	*	ALLIUM ROTUNDUM		5	[UPL]	Ad P-Forb	ONION
ALLSAT	*	ALLIUM SATIVUM		5	[UPL]	Ad P-Forb	GARLIC
ALSCSC	*	ALLIUM SCHOENOPRASUM		-1	FAC+	Ad P-Forb	CHIVES
ALSCSI	10	Allium schoenoprasum var. sibiricum	T	3	[FACU]	Nt P-Forb	WILD CHIVES
ALLSTE	10	Allium stellatum		5	[UPL]	Nt P-Forb	WILD ONION
ALLTRI	5	Allium tricoccum		2	FACU+	Nt P-Forb	WILD LEEK
ALLTUB	*	ALLIUM TUBEROSUM		5	[UPL]	Ad P-Forb	CHINESE CHIVES
ALLVIN	*	ALLIUM VINEALE		3	FACU	Ad P-Forb	FIELD GARLIC
ALNCRI	10	Alnus crispa		0	FAC	Nt Shrub	MOUNTAIN ALDER
ALNGLU	*	ALNUS GLUTINOSA		-2	FACW-	Ad Tree	BLACK ALDER
ALNRUG	5	Alnus rugosa		-5	OBL	Nt Shrub	TAG ALDER
ALOAEQ	4	Alopecurus aequalis		-5	OBL	Nt P-Grass	SHORT-AWNED FOXTAIL
ALOCAR	*	ALOPECURUS CAROLINIANUS		-3	FACW	Ad A-Grass	CAROLINA FOXTAIL
ALOGEN	*	ALOPECURUS GENICULATUS		-5	OBL	Ad P-Grass	MARSH FOXTAIL
ALOMYO	*	ALOPECURUS MYOSUROIDES		-3	FACW	Ad A-Grass	MOUSE FOXTAIL
ALOPRA	*	ALOPECURUS PRATENSIS		-3	FACW	Ad P-Grass	MEADOW FOXTAIL
ALTOFF	*	ALTHAEA OFFICINALIS		0	[FAC]	Ad P-Forb	MARSH MALLOW
ALTROS	*	ALTHAEA ROSEA		5	[UPL]	Ad P-Forb	HOLLYHOCK
ALYALY	*	ALYSSUM ALYSSOIDES		5	[UPL]	Ad A-Forb	PALE ALYSSUM
ALYMUR	*	ALYSSUM MURALE		5	[UPL]	Ad P-Forb	YELLOWTUFT
ALYSAX	*	ALYSSUM SAXATILE		5	[UPL]	Ad P-Forb	GOLDENTUFT
AMAALB	0	Amaranthus albus		3	FACU	Nt A-Forb	TUMBLEWEED
AMAARE	*	AMARANTHUS ARENICOLA		3	FACU	Ad A-Forb	AMARANTH
AMABLI	*	AMARANTHUS BLITOIDES		5	[UPL]	Ad A-Forb	AMARANTH
AMACAU	*	AMARANTHUS CAUDATUS		5	[UPL]	Ad A-Forb	LOVE-LIES-BLEEDING
AMACRU	*	AMARANTHUS CRUENTUS		5	[UPL]	Ad A-Forb	PURPLE AMARANTH
AMAGRA	*	AMARANTHUS GRACILIS		5	[UPL]	Ad A-Forb	AMARANTH
AMAHYB	*	AMARANTHUS HYBRIDUS		5	[UPL]	Ad P-Forb	GREEN AMARANTH
AMAHYP	*	AMARANTHUS HYPOCHONDRIACUS		5	[UPL]	Ad A-Forb	AMARANTH
AMAPOW	*	AMARANTHUS POWELLII		5	[UPL]	Ad A-Forb	TALL AMARANTH
AMARET	*	AMARANTHUS RETROFLEXUS		2	FACU+	Ad A-Forb	ROUGH AMARANTH
AMATRI	*	AMARANTHUS TRICOLOR		5	[UPL]	Ad A-Forb	AMARANTH
AMATUB	6	Amaranthus tuberculatus		-5	OBL	Nt A-Forb	WATER-HEMP
AMBART	0	Ambrosia artemisiifolia		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBPSI	*	AMBROSIA PSILOSTACHYA		1	FAC-	Ad P-Forb	WESTERN RAGWEED
AMBTRI	0	Ambrosia trifida		-1	FAC+	Nt A-Forb	GIANT RAGWEED
AMEARB	4	Amelanchier arborea		3	FACU	Nt Tree	JUNEBERRY
AMEBAR	8	Amelanchier bartramiana		0	FAC	Nt Shrub	NORTHERN JUNEBERRY
AMEINT	4	Amelanchier interior		5	[UPL]	Nt Tree	SERVICEBERRY
AMELAE	4	Amelanchier laevis		5	[UPL]	Nt Tree	SMOOTH SHADBUSH
AMESAN	5	Amelanchier sanguinea		5	[UPL]	Nt Shrub	ROUND-LEAVED SERVICEBERRY
AMESPI	4	Amelanchier spicata		3	FACU	Nt Shrub	SHADBUSH SERVICEBERRY
AMEROT	10	Amerorchis rotundifolia (Orchis r.)	E	-5	OBL	Nt P-Forb	ROUND-LEAVED ORCHIS
AMMROB	6	Ammannia robusta		-5	[OBL]	Nt A-Forb	SESSILE TOOTH-CUP
AMMBRE	10	Ammophila breviligulata		5	[UPL]	Nt P-Grass	MARRAM GRASS
AMOCAN	8	Amorpha canescens	SC	5	[UPL]	Nt Shrub	LEAD PLANT
AMOFRU	*	AMORPHA FRUTICOSA		-4	FACW+	Ad Shrub	FALSE INDIGO
	*	AMPELOPSIS ACONITIFOLIA		5	[UPL]	Ad W-Vine	MONKSHOD VINE
AMPBRE	*	AMPELOPSIS BREVIPEDUNCULATA		5	[UPL]	Ad W-Vine	TURQUOISE BERRY
AMPBRA	5	Amphicarpaea bracteata		0	FAC	Nt A-Forb	HOG-PEANUT

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ANAARV	*	ANAGALLIS ARVENSIS		4	[FACU-]	Ad A-Forb	SCARLET PIMPERNEL
ANAMAR	3	Anaphalis margaritacea		5	[UPL]	Nt P-Forb	PEARLY EVERLASTING
ANCAZU	*	ANCHUSA AZUREA		5	[UPL]	Ad P-Forb	SHOWY BUGLOSS
ANCOFF	*	ANCHUSA OFFICINALIS		5	[UPL]	Ad P-Forb	COMMON BUGLOSS
ANDGLA	10	Andromeda glaucophylla		-5	OBL	Nt Shrub	BOG ROSEMARY
ANDGER	5	Andropogon gerardii		1	FAC-	Nt P-Grass	BIG BLUESTEM
ANDSCO	5	Andropogon scoparius (Schizachyrium s.)		3	[FACU]	Nt P-Grass	LITTLE BLUESTEM GRASS
ANDVIR	4	Andropogon virginicus		1	FAC-	Nt P-Grass	BROOM-SEDGE
ANDOCC	6	Androsace occidentalis	E	4	FACU-	Nt A-Forb	ROCK-JASMINE
ANECAN	4	Anemone canadensis		-3	FACW	Nt P-Forb	CANADA ANEMONE
ANECYL	6	Anemone cylindrica		5	[UPL]	Nt P-Forb	THIMBLEWEED
ANEMUL	10	Anemone multifida		5	[UPL]	Nt P-Forb	RED ANEMONE
ANEQUI	5	Anemone quinquefolia		0	FAC	Nt P-Forb	WOOD ANEMONE
ANEVIR	3	Anemone virginiana		5	UPL	Nt P-Forb	THIMBLEWEED
ANETHA	8	Anemonella thalictroides		5	[UPL]	Nt P-Forb	RUE ANEMONE
ANEGRA	*	ANETHUM GRAVEOLENS		5	[UPL]	Ad A-Forb	DILL
ANGATR	6	Angelica atropurpurea		-5	OBL	Nt P-Forb	ANGELICA
ANGVEN	8	Angelica venenosa	SC	3	[FACU]	Nt P-Forb	HAIRY ANGELICA
ANTHOW	2	Antennaria howellii		5	[UPL]	Nt P-Forb	SMALL PUSSYTOES
ANTNEG	3	Antennaria neglecta		5	[UPL]	Nt P-Forb	CAT'S FOOT
ANTPAL	2	Antennaria parlinii (A. plantaginifolia)		5	[UPL]	Nt P-Forb	SMOOTH PUSSYTOES
ANTPAV	4	Antennaria parvifolia	SC	5	[UPL]	Nt P-Forb	SMALL-LEAVED PUSSYTOES
ANTROS	10	Antennaria rosea	T	5	[UPL]	Nt P-Forb	ROSY PUSSYTOES
ANTARV	*	ANTHEMIS ARVENSIS		5	[UPL]	Ad A-Forb	FIELD CHAMOMILE
ANTCOT	*	ANTHEMIS COTULA		3	FACU	Ad A-Forb	DOG FENNEL
ANTTIN	*	ANTHEMIS TINCTORIA		5	[UPL]	Ad P-Forb	YELLOW CHAMOMILE
ANTODO	*	ANTHOXANTHUM ODORATUM		3	FACU	Ad P-Grass	SWEET VERNAL GRASS
ANTSYL	*	ANTHRISCUS SYLVESTRIS		5	[UPL]	Ad B-Forb	FALSE CHERVIL
ANTVUL	*	ANTHYLLIS VULNERARIA		5	[UPL]	Ad A-Forb	WOUNDWORT
ANTMAJ	*	ANTIRRHINUM MAJUS		5	[UPL]	Ad P-Forb	SNAPDRAGON
APEINT	*	APERA INTERRUPTA		5	[UPL]	Ad A-Grass	APERA
APESPI	*	APERA SPICA-VENTI		5	[UPL]	Ad A-Grass	APERA
APIAME	3	Apios americana		-3	FACW	Nt P-Forb	GROUNDNUT
APLHYE	10	Aplectrum hyemale		1	FAC-	Nt P-Forb	PUTTY ROOT
APOAND	3	Apocynum androsaemifolium		5	[UPL]	Nt P-Forb	SPREADING DOGBANE
APOCAN	3	Apocynum cannabinum		0	FAC	Nt P-Forb	INDIAN HEMP
APOSIB	3	Apocynum sibiricum		-1	FAC+	Nt P-Forb	CLASPING DOGBANE
AQUCAN	5	Aquilegia canadensis		1	FAC-	Nt P-Forb	WILD COLUMBINE
AQUVUL	*	AQUILEGIA VULGARIS		3	[FACU]	Ad P-Forb	GARDEN COLUMBINE
ARATHA	*	ARABIDOPSIS THALIANA		5	[UPL]	Ad A-Forb	MOUSE-EAR CRESS
ARACAN	7	Arabis canadensis		5	[UPL]	Nt B-Forb	SICKLE-POD
ARACAU	*	ARABIS CAUCASICA		5	[UPL]	Ad P-Forb	WALL ROCK CRESS
ARADIV	6	Arabis divaricarpa		3	FACU	Nt B-Forb	ROCK CRESS
ARADRU	6	Arabis drummondii		3	FACU	Nt B-Forb	DRUMMOND ROCK CRESS
ARAGLA	3	Arabis glabra		5	[UPL]	Nt B-Forb	TOWER MUSTARD
ARAHIR	6	Arabis hirsuta		3	FACU	Nt B-Forb	HAIRY ROCK CRESS
ARAHOL	10	Arabis holboellii		5	[UPL]	Nt B-Forb	ROCK CRESS
ARALAE	5	Arabis laevigata		5	[UPL]	Nt B-Forb	SMOOTH BANK CRESS
ARALYR	7	Arabis lyrata		4	FACU-	Nt B-Forb	SAND CRESS
ARAMIS	10	Arabis missouriensis var. deamii	SC	5	[UPL]	Nt B-Forb	MISSOURI ROCK CRESS

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ARAPER	9	<i>Arabis perstellata</i>	T	5	[UPL]	Nt P-Forb	ROCK CRESS
ARAPRO	*	<i>ARABIS PROCURRENS</i>		5	[UPL]	Ad P-Forb	HUNGARIAN ROCK CRESS
ARAEAL	*	<i>ARALIA ELATA</i>		5	[UPL]	Ad Shrub	HERCULES-CLUB
ARAHIS	3	<i>Aralia hispida</i>		5	[UPL]	Nt Shrub	BRISTLY SARSAPARILLA
ARANUD	5	<i>Aralia nudicaulis</i>		3	FACU	Nt P-Forb	WILD SARSAPARILLA
ARARAC	8	<i>Aralia racemosa</i>		5	[UPL]	Nt P-Forb	SPIKENARD
ARCPUS	10	<i>Arceuthobium pusillum</i>		0	[FAC]	Nt Shrub	DWARF MISTLETOE
ARCLAP	*	<i>ARCTIUM LAPPA</i>		2	[FACU+]	Ad B-Forb	GREAT BURDOCK
ARCMIN	*	<i>ARCTIUM MINUS</i>		5	[UPL]	Ad B-Forb	COMMON BURDOCK
ARCUVA	8	<i>Arctostaphylos uva-ursi</i>		5	[UPL]	Nt Shrub	BEARBERRY
ARELAT	5	<i>Arenaria lateriflora</i>		3	[FACU]	Nt P-Forb	WOOD SANDWORT
AREMAC	10	<i>Arenaria macrophylla</i>	T	-2	[FACW-]	Nt P-Forb	BIG-LEAF SANDWORT
ARESER	*	<i>ARENARIA SERPYLLIFOLIA</i>		0	FAC	Ad A-Forb	THYME-LEAVED SANDWORT
ARESTR	10	<i>Arenaria stricta</i>		5	[UPL]	Nt P-Forb	ROCK SANDWORT
AREBUL	10	<i>Arethusa bulbosa</i>		-5	OBL	Nt P-Forb	DRAGON'S MOUTH
ARGALB	*	<i>ARGEMONE ALBIFLORA</i>		5	[UPL]	Ad A-Forb	WHITE PRICKLY POPPY
ARGMEX	*	<i>ARGEMONE MEXICANA</i>		5	[UPL]	Ad A-Forb	MEXICAN PRICKLY POPPY
ARIDRA	8	<i>Arisaema dracontium</i>		-3	FACW	Nt P-Forb	GREEN DRAGON
ARITRI	5	<i>Arisaema triphyllum</i>		-2	FACW-	Nt P-Forb	JACK-IN-THE-PULPIT
ARIBAS	3	<i>Aristida basiramea</i>		5	[UPL]	Nt A-Grass	FORK-TIPPED THREE-AWNED GRASS
ARIDIC	5	<i>Aristida dichotoma</i>	X	3	FACU	Nt A-Grass	POVERTY GRASS
ARILON	6	<i>Aristida longispica</i>	T	4	FACU-	Nt A-Grass	THREE-AWNED GRASS
ARINEC	4	<i>Aristida necopina</i>		5	[UPL]	Nt A-Grass	THREE-AWNED GRASS
ARIOLI	*	<i>ARISTIDA OLIGANTHA</i>		5	[UPL]	Ad A-Grass	PLAINS THREE-AWNED GRASS
ARIPUR	8	<i>Aristida purpurascens</i>		5	[UPL]	Nt P-Grass	THREE-AWNED GRASS
ARITUB	9	<i>Aristida tuberosa</i>	T	5	[UPL]	Nt A-Grass	BEACH THREE-AWNED GRASS
ARICLE	*	<i>ARISTOLOCHIA CLEMATITIS</i>		5	[UPL]	Ad P-Forb	BIRTHWORT
ARIMAC	*	<i>ARISTOLOCHIA MACROPHYLLA</i>		5	[UPL]	Ad W-Vine	DUTCHMAN'S PIPE
ARISER	10	<i>Aristolochia serpentaria</i>	T	5	[UPL]	Nt P-Forb	VIRGINIA-SNAKEROOT
ARMLAC	8	<i>Armoracia lacustris (A. aquatica)</i>	T	-5	OBL	Nt P-Forb	LAKE CRESS
ARMRUS	*	<i>ARMORACIA RUSTICANA</i>		0	FAC	Ad P-Forb	HORSERADISH
ARNCOR	9	<i>Arnica cordifolia</i>	E	5	[UPL]	Nt P-Forb	HEART-LEAVED ARNICA
ARNMIN	*	<i>ARNOSERIS MINIMA</i>		5	[UPL]	Ad A-Forb	DWARF NIPPLEWORT
AROPRU	5	<i>Aronia prunifolia (A. melanocarpa)</i>		-3	FACW	Nt Shrub	BLACK CHOKEBERRY
ARRELA	*	<i>ARRHENATHERUM ELATIUS</i>		3	FACU	Ad P-Grass	TALL OATGRASS
ARTABR	*	<i>ARTEMISIA ABROTANUM</i>		5	[UPL]	Ad Shrub	SOUTHERNWOOD
ARTABS	*	<i>ARTEMISIA ABSINTHIUM</i>		5	[UPL]	Ad P-Forb	ABSINTHE WORMWOOD
ARTANN	*	<i>ARTEMISIA ANNUA</i>		3	FACU	Ad A-Forb	SWEET WORMWOOD
ARTBIE	*	<i>ARTEMISIA BIENNIS</i>		-2	FACW-	Ad B-Forb	BIENNIAL WORMWOOD
ARTCAM	5	<i>Artemisia campestris</i>		0	[FAC]	Nt B-Forb	WORMWOOD
ARTCAR	*	<i>ARTEMISIA CARRUTHII</i>		5	[UPL]	Ad P-Forb	KANSAS MUGWORT
ARTFRI	*	<i>ARTEMISIA FRIGIDA</i>		5	[UPL]	Ad P-Forb	PRAIRIE SAGEWORT
ARTLON	*	<i>ARTEMISIA LONGIFOLIA</i>		5	[UPL]	Ad P-Forb	LONG-LEAVED WORMWOOD
ARTLUD	8	<i>Artemisia ludoviciana</i>	T	5	[UPL]	Nt P-Forb	WHITE SAGE
ARTPON	*	<i>ARTEMISIA PONTICA</i>		5	[UPL]	Ad Shrub	WORMWOOD
ARTSTE	*	<i>ARTEMISIA STELLERIANA</i>		4	FACU-	Ad P-Forb	DUSTY MILLER
ARTVUL	*	<i>ARTEMISIA VULGARIS</i>		5	[UPL]	Ad P-Forb	MUGWORT
ARUDIO	*	<i>ARUNCUS DIOICUS</i>		3	FACU	Ad P-Forb	GOATSBEARD
ASACAN	5	<i>Asarum canadense</i>		5	[UPL]	Nt P-Forb	WILD-GINGER
ASCAMP	10	<i>Asclepias amplexicaulis</i>		5	[UPL]	Nt P-Forb	CLASPING MILKWEED

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ASCEXA	6	<i>Asclepias exaltata</i>		5	[UPL]	Nt P-Forb	POKE MILKWEED
ASCHIR	10	<i>Asclepias hirtella</i>	T	5	[UPL]	Nt P-Forb	TALL GREEN MILKWEED
ASCINC	6	<i>Asclepias incarnata</i>		-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASCOVA	10	<i>Asclepias ovalifolia</i>	E	5	[UPL]	Nt P-Forb	DWARF MILKWEED
ASCPUR	10	<i>Asclepias purpurascens</i>	SC	3	FACU	Nt P-Forb	PURPLE MILKWEED
ASCSPE	*	ASCLEPIAS SPECIOSA		0	[FAC]	Ad P-Forb	SHOWY MILKWEED
ASCSUL	9	<i>Asclepias sullivantii</i>	T	5	[UPL]	Nt P-Forb	SULLIVANT'S MILKWEED
ASCSYR	1	<i>Asclepias syriaca</i>		5	[UPL]	Nt P-Forb	COMMON MILKWEED
ASCTUB	5	<i>Asclepias tuberosa</i>		5	[UPL]	Nt P-Forb	BUTTERFLY-WEED
ASCVER	1	<i>Asclepias verticillata</i>		5	[UPL]	Nt P-Forb	WHORLED MILKWEED
ASCVIR	8	<i>Asclepias viridiflora</i>		5	[UPL]	Nt P-Forb	GREEN MILKWEED
ASITRI	9	<i>Asimina triloba</i>		0	FAC	Nt Tree	PAWPAW
ASPOFF	*	ASPARAGUS OFFICINALIS		3	FACU	Ad P-Forb	ASPARAGUS
ASPMON	10	<i>Asplenium montanum</i>	X	5	[UPL]	Nt Fern	MOUNTAIN SPLEENWORT
ASPPLA	2	<i>Asplenium platyneuron</i>		3	FACU	Nt Fern	EBONY SPLEENWORT
ASPRHI	10	<i>Asplenium rhizophyllum</i>	T	5	[UPL]	Nt Fern	WALKING FERN
ASPRUT	10	<i>Asplenium ruta-muraria</i>	E	5	[UPL]	Nt Fern	WALL-RUE
ASPSCO	10	<i>Asplenium scolopendrium</i> (Phyllitis s.)	E	5	[UPL]	Nt Fern	HART'S-TONGUE FERN
ASPTRI	10	<i>Asplenium trichomanes</i>		5	[UPL]	Nt Fern	MAIDENHAIR SPLEENWORT
ASPTRR	10	<i>Asplenium trichomanes-ramosum</i> (A. viride)	T	5	[UPL]	Nt Fern	GREEN SPLEENWORT
ASTBOR	9	<i>Aster borealis</i>		-5	[OBL]	Nt P-Forb	NORTHERN BOG-ASTER
ASTBRA	*	ASTER BRACHYACTIS		0	FAC	Ad P-Forb	RAYLESS ASTER
ASTCIL	4	<i>Aster ciliolatus</i>		4	[FACU-]	Nt P-Forb	NORTHERN HEART-LEAVED ASTER
ASTCOR	4	<i>Aster cordifolius</i>		5	[UPL]	Nt P-Forb	HEART-LEAVED ASTER
ASTDUM	7	<i>Aster dumosus</i>		-1	FAC+	Nt P-Forb	BUSHY ASTER
ASTERI	3	<i>Aster ericoides</i> (Virgulus e.)		4	FACU-	Nt P-Forb	HEATH ASTER
ASTFIR	4	<i>Aster firmus</i> (A. lucidulus)		-5	OBL	Nt P-Forb	SMOOTH SWAMP ASTER
ASTFUR	10	<i>Aster furcatus</i>	T	2	[FACU+]	Nt P-Forb	FORKED ASTER
ASTLAE	5	<i>Aster laevis</i>		5	[UPL]	Nt P-Forb	SMOOTH ASTER
ASTLAN	2	<i>Aster lanceolatus</i>		-3	[FACW]	Nt P-Forb	EASTERN LINED ASTER
ASTLAT	2	<i>Aster lateriflorus</i>		-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTLON	9	<i>Aster longifolius</i>		-2	[FACW-]	Nt P-Forb	LONG-LEAVED ASTER
ASTMAC	4	<i>Aster macrophyllus</i>		5	[UPL]	Nt P-Forb	BIG-LEAVED ASTER
ASTMOD	8	<i>Aster modestus</i>	T	-1	FAC+	Nt P-Forb	GREAT NORTHERN ASTER
ASTNEM	10	<i>Aster nemoralis</i>		-5	OBL	Nt P-Forb	BOG ASTER
ASTNOV	3	<i>Aster novae-angliae</i> (Virgulus n.)		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTONT	6	<i>Aster ontarionis</i>		0	[FAC]	Nt P-Forb	ONTARIO ASTER
ASTOOL	4	<i>Aster oolentangiensis</i> (A. azureus)		5	[UPL]	Nt P-Forb	PRAIRIE HEART-LEAVED ASTER
ASTPAT	*	ASTER PATERNUS		5	[UPL]	Ad P-Forb	WHITE TOPPED ASTER
ASTPIL	1	<i>Aster pilosus</i>		2	FACU+	Nt P-Forb	HAIRY ASTER
ASTPRA	6	<i>Aster praealtus</i>	SC	-3	FACW	Nt P-Forb	WILLOW ASTER
ASTPUN	5	<i>Aster puniceus</i> (A. lucidulus)		-5	OBL	Nt P-Forb	SWAMP ASTER
ASTSAG	2	<i>Aster sagittifolius</i>		5	[UPL]	Nt P-Forb	ARROW-LEAVED ASTER
ASTSER	10	<i>Aster sericeus</i> (Virgulus s.)	T	5	[UPL]	Nt P-Forb	WESTERN SILVER-LEAVED ASTER
ASTSHO	5	<i>Aster shortii</i>		5	[UPL]	Nt P-Forb	SHORT'S ASTER
ASTSOL	*	ASTER SOLIDAGINEUS		5	[UPL]	Ad P-Forb	NARROWLEAF WHITETOP ASTER
ASTSUB	*	ASTER SUBULATUS		-5	[OBL]	Ad A-Forb	SMALL SALT-MARSH ASTER
ASTTAT	*	ASTER TATARICUS		5	[UPL]	Ad P-Forb	TATARIAN ASTER
ASTUMB	5	<i>Aster umbellatus</i>		-3	FACW	Nt P-Forb	TALL FLAT-TOP WHITE ASTER

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ASTCAN	9	Astragalus canadensis	T	-1	FAC+	Nt P-Forb	CANADIAN MILK-VETCH
ASTCIC	*	ASTRAGALUS CICER		5	[UPL]	Ad P-Forb	CHICK-PEA MILK-VETCH
ASTNEG	9	Astragalus neglectus	SC	4	FACU-	Nt P-Forb	COOPER'S MILK-VETCH
ATHFIL	4	Athyrium filix-femina		0	FAC	Nt Fern	LADY FERN
ATHPYC	10	Athyrium pycnocarpon		1	FAC-	Nt Fern	NARROW-LEAVED SPLEENWORT
ATHTHE	6	Athyrium thelypteroides		0	FAC	Nt Fern	SILVERY SPLEENWORT
ATRHOR	*	ATRIPLEX HORTENSIS		0	FAC	Ad A-Forb	GARDEN ORACH
ATRPAT	*	ATRIPLEX PATULA		-2	FACW-	Ad A-Forb	SPEARSCALE
ATRROS	*	ATRIPLEX ROSEA		2	FACU+	Ad A-Forb	SALTBUSH
ATRBEL	*	ATROPA BELLADONNA		5	[UPL]	Ad P-Forb	DEADLY NIGHTSHADE
AURFLA	10	Aureolaria flava		5	[UPL]	Nt P-Forb	SMOOTH FALSE FOXGLOVE
AURPED	10	Aureolaria pedicularia		5	[UPL]	Nt A-Forb	ANNUAL FALSE FOXGLOVE
AURVIR	10	Aureolaria virginica		5	[UPL]	Nt P-Forb	DOWNY FALSE FOXGLOVE
AVEFAT	*	AVENA FATUA		5	[UPL]	Ad A-Grass	WILD OATS
AVESAT	*	AVENA SATIVA		5	[UPL]	Ad A-Grass	OATS
AZOCAR	10	Azolla caroliniana		-5	[OBL]	Nt Fern	WATER FERN
BAPLAC	10	Baptisia lactea (B. leucantha)	SC	3	FACU	Nt P-Forb	WHITE FALSE INDIGO
BAPLEU	10	Baptisia leucophaea	E	5	[UPL]	Nt P-Forb	CREAM WILD INDIGO
BAPTIN	10	Baptisia tinctoria		5	[UPL]	Nt P-Forb	WILD INDIGO
BARORT	10	Barbarea orthoceras		-5	OBL	Nt B-Forb	NORTHERN WINTER CRESS
BARVER	*	BARBAREA VERNA		5	[UPL]	Ad B-Forb	EARLY WINTER CRESS
BARVUL	*	BARBAREA VULGARIS		0	FAC	Ad B-Forb	YELLOW ROCKET
BARPAN	10	Bartonia paniculata	T	-5	[OBL]	Nt A-Forb	PANICLED SCREW-STEM
BARVIR	7	Bartonia virginica		-4	FACW+	Nt A-Forb	SCREW-STEM
BECSYZ	4	Beckmannia syzigachne	T	-5	OBL	Nt A-Forb	SLOUGH GRASS
BELCHI	*	BELAMCANDA CHINENSIS		5	[UPL]	Ad P-Forb	BLACKBERRY-LILY
BELPER	*	BELLIS PERENNIS		5	[UPL]	Ad P-Forb	ENGLISH DAISY
BERTHU	*	BERBERIS THUNBERGII		4	FACU-	Ad Shrub	JAPANESE BARBERRY
BERVUL	*	BERBERIS VULGARIS		3	FACU	Ad Shrub	COMMON BARBERRY
BERINC	*	BERTEROA INCANA		5	[UPL]	Ad A-Forb	HOARY ALYSSUM
BERERE	10	Berula erecta (B. pusilla)	T	-5	OBL	Nt P-Forb	WATER-PARSNIP
BESBUL	10	Besseya bullii	T	5	[UPL]	Nt P-Forb	KITTENTAILS
BETVUL	*	BETA VULGARIS		5	[UPL]	Ad B-Forb	BEEF
BETALL	7	Betula alleghaniensis		0	FAC	Nt Tree	YELLOW BIRCH
BETMUR	10	Betula murrayana	SC	-4	[FACW+]	Nt Tree	MURRAY BIRCH
BETPAP	2	Betula papyrifera		2	FACU+	Nt Tree	PAPER BIRCH
BETPEN	*	BETULA PENDULA		-4	[FACW+]	Ad Tree	EUROPEAN WHITE BIRCH
BETPOP	4	Betula populifolia		0	FAC	Nt Tree	GRAY BIRCH
BETPUM	8	Betula pumila		-5	OBL	Nt Shrub	BOG BIRCH
BIDARI	1	Bidens aristosus		-3	FACW	Nt A-Forb	SWAMP-MARIGOLD
BIDCER	3	Bidens cernuus		-5	OBL	Nt A-Forb	NODDING BUR-MARIGOLD
BIDCOM	5	Bidens comosus		-3	FACW	Nt A-Forb	SWAMP TICKSEED
BIDCON	5	Bidens connatus		-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDCOR	7	Bidens coronatus		-5	OBL	Nt A-Forb	TALL SWAMP-MARIGOLD
BIDDIS	7	Bidens discoideus		-3	FACW	Nt A-Forb	SWAMP BEGGAR-TICKS
BIDFRO	1	Bidens frondosus		-3	FACW	Nt A-Forb	COMMON BEGGAR-TICKS
BIDPOL	*	BIDENS POLYLEPIS		4	[FACU-]	Ad A-Forb	OZARK TICKSEED SUNFLOWER
BIDVUL	0	Bidens vulgatus		-3	[FACW]	Nt A-Forb	TALL BEGGAR-TICKS
BLECIL	7	Blephilia ciliata		5	[UPL]	Nt P-Forb	OHIO HORSE MINT
BLEHIR	8	Blephilia hirsuta		4	FACU-	Nt P-Forb	WOOD MINT

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
BOE CYL	5	Boehmeria cylindrica		-5	OBL	Nt P-Forb	FALSE NETTLE
BOL FLU	6	Bolboschoenus fluviatilis (Scirpus f.)		-5	OBL	Nt P-Sedge	BULRUSH
BOL MAR	*	BOLBOSCHOENUS MARITIMUS (SCIRPUS PALUDOSUS)		-5	[OBL]	Ad P-Sedge	BULRUSH
BOL AST	5	Boltonia asteroides		-3	FACW	Nt P-Forb	FALSE ASTER
BOR OFF	*	BORAGO OFFICINALIS		5	[UPL]	Ad A-Forb	BORAGE
BOT ACU	10	Botrychium acuminatum	E	5	[UPL]	Nt Fern	MOONWORT
BOT CAM	10	Botrychium campestre	T	5	[UPL]	Nt Fern	PRAIRIE MOONWORT
BOT DIS	5	Botrychium dissectum		0	FAC	Nt Fern	CUT-LEAVED GRAPE-FERN
BOT HES	10	Botrychium hesperium	T	5	[UPL]	Nt Fern	WESTERN MOONWORT
BOT LAN	7	Botrychium lanceolatum		-3	FACW	Nt Fern	LANCE-LEAVED MOONWORT
BOT LUN	7	Botrychium lunaria		-3	FACW	Nt Fern	MOONWORT
BOT MAT	5	Botrychium matricariaefolium		3	FACU	Nt Fern	DAISY-LEAVED MOONWORT
BOT MIN	7	Botrychium minganense		5	[UPL]	Nt Fern	MINGAN MOONWORT
BOT MOR	10	Botrychium mormo	T	5	[UPL]	Nt Fern	GOBLIN MOONWORT
BOT MUL	5	Botrychium multifidum		3	FACU	Nt Fern	LEATHER GRAPE-FERN
BOT ONE	7	Botrychium oneidense		5	[UPL]	Nt Fern	BLUNT-LEAVED GRAPE-FERN
BOT PAL	10	Botrychium pallidum	SC	5	[UPL]	Nt Fern	PALE MOONWORT
BOT RUG	6	Botrychium rugulosum		5	[UPL]	Nt Fern	TERNATE GRAPE-FERN
BOT SIM	5	Botrychium simplex		0	FAC	Nt Fern	LEAST MOONWORT
BOT VIR	5	Botrychium virginianum		3	FACU	Nt Fern	RATTLESNAKE FERN
BOU CUR	10	Bouteloua curtipendula	T	5	[UPL]	Nt P-Grass	SIDE-OATS GRAMA
BOU GRA	*	BOUTELOUA GRACILIS		5	[UPL]	Ad P-Grass	SLENDER GRAMA GRASS
BRA ERE	7	Brachelytrum erectum		5	[UPL]	Nt P-Grass	LONG-AWNED WOOD GRASS
BRAS CH	6	Brasenia schreberi		-5	OBL	Nt P-Grass	WATER SHIELD
BRA ALB	*	BRASSICA ALBA		5	[UPL]	Ad A-Forb	WHITE MUSTARD
BRA JUN	*	BRASSICA JUNCEA		5	[UPL]	Ad A-Forb	INDIAN MUSTARD
BRA KAB	*	BRASSICA KABER		5	[UPL]	Ad A-Forb	WILD MUSTARD
BRAN AP	*	BRASSICA NAPUS		5	[UPL]	Ad A-Forb	RUTABAGA
BRAN IG	*	BRASSICA NIGRA		5	[UPL]	Ad A-Forb	BLACK MUSTARD
BRAR AP	*	BRASSICA RAPA		5	[UPL]	Ad A-Forb	FIELD MUSTARD
BRA HUM	10	Braya humilis	T	3	FACU	Nt P-Forb	LOW NORTHERN ROCK CRESS
BRIM ED	*	BRIZA MEDIA		0	FAC	Ad P-Grass	QUAKING GRASS
BRO BRI	*	BROMUS BRIZIFORMIS		5	[UPL]	Ad A-Grass	RATTLESNAKE-CHESS
BRO CIL	6	Bromus ciliatus		-3	FACW	Nt P-Grass	FRINGED BROME
BRO COM	*	BROMUS COMMUTATUS		5	[UPL]	Ad A-Grass	HAIRY CHESS
BRO ERE	*	BROMUS ERECTUS		5	[UPL]	Ad P-Grass	ERECT BROME
BRO INE	*	BROMUS INERMIS		5	[UPL]	Ad P-Grass	SMOOTH BROME
BRO JAP	*	BROMUS JAPONICUS		3	FACU	Ad A-Grass	JAPANESE BROME
BRO KAL	8	Bromus kalmii		0	FAC	Nt P-Grass	PRAIRIE BROME
BRO LAT	6	Bromus latiglumis		-2	FACW-	Nt P-Grass	EAR-LEAVED BROME
BRO MOF	*	BROMUS MOLLIFORMIS		5	[UPL]	Ad A-Grass	BROME
BRO MOS	*	BROMUS MOLLIS		5	[UPL]	Ad A-Grass	SOFT CHESS
BRO PUB	5	Bromus pubescens		3	[FACU]	Nt P-Grass	CANADA BROME
BRO PUM	10	Bromus pumpellianus	T	5	[UPL]	Nt P-Grass	PUMPELL'S BROME
BRO RAC	*	BROMUS RACEMOSUS		5	[UPL]	Ad A-Grass	SMOOTH CHESS
BRO SEC	*	BROMUS SECALINUS		5	[UPL]	Ad A-Grass	CHESS
BRO SQU	*	BROMUS SQUARROSUS		5	[UPL]	Ad A-Grass	BROME
BRO STE	*	BROMUS STERILIS		5	[UPL]	Ad A-Grass	POVERTY BROME
BRO TEC	*	BROMUS TECTORUM		5	[UPL]	Ad A-Grass	CHEAT GRASS

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
BUCAME	10	Buchnera americana	X	1	FAC-	Nt P-Forb	BLUE-HEARTS
BUDDAV	*	BUDDLEJA DAVIDII		5	[UPL]	Ad Shrub	BUTTERFLY-BUSH
BULCAP	4	Bulbostylis capillaris		2	FACU+	Nt A-Sedge	SEDGE
BUNORI	*	BUNIAS ORIENTALIS		5	[UPL]	Ad B-Forb	TURKISH ROCKET
BUPROT	*	BUPLEURUM ROTUNDIFOLIUM		5	[UPL]	Ad A-Forb	THOROUGHWAX
BUTUMB	*	BUTOMUS UMBELLATUS		-5	OBL	Ad P-Forb	FLOWERING-RUSH
CABCAR	*	CABOMBA CAROLINIANA		-5	OBL	Ad P-Forb	FANWORT
CACATR	10	Cacalia atriplicifolia		5	[UPL]	Nt P-Forb	PALE INDIAN PLANTAIN
CACPLA	10	Cacalia plantaginea (C. tuberosa)	SC	0	[FAC]	Nt P-Forb	TUBEROUS INDIAN PLANTAIN
CAKEDE	5	Cakile edentula		3	FACU	Nt A-Forb	SEA ROCKET
CALCAN	3	Calamagrostis canadensis		-5	OBL	Nt P-Grass	BLUE-JOINT GRASS
CALEPI	*	CALAMAGROSTIS EPIGEIOS		0	FAC	Ad P-Grass	REEDGRASS
CALINE	8	Calamagrostis inexpansa		-4	FACW+	Nt P-Grass	BOG REEDGRASS
CALLAC	10	Calamagrostis lacustris	T	-3	[FACW]	Nt P-Grass	NORTHERN REEDGRASS
CALSTR	10	Calamagrostis stricta	T	-4	[FACW+]	Nt P-Grass	NARROW-LEAVED REEDGRASS
CALARK	10	Calamintha arkansana		-3	[FACW]	Nt P-Forb	LOW CALAMINT
CALLON	10	Calamovilfa longifolia		5	[UPL]	Nt P-Grass	SAND REED GRASS
CALOFF	*	CALENDULA OFFICINALIS		5	[UPL]	Ad A-Forb	POT MARIGOLD
CALLPA	10	Calla palustris		-5	OBL	Nt P-Forb	WILD CALLA
CALINV	*	CALLIRHOE INVOLUCRATA		5	[UPL]	Ad P-Forb	POPPY MALLOW
CALCHI	*	CALLISTEPHUS CHINENSIS		5	[UPL]	Ad A-Forb	CHINA ASTER
CALHER	9	Callitriche hermaphroditica	SC	-5	OBL	Nt A-Forb	AUTUMNAL WATER-STARWORT
CALHET	9	Callitriche heterophylla	T	-5	OBL	Nt A-Forb	LARGE WATER-STARWORT
CALTER	*	CALLITRICHE TERRESTRIS		-3	[FACW]	Ad A-Forb	TERRESTRIAL WATER-STARWORT
CALVER	6	Callitriche verna (C. palustris)		-5	OBL	Nt P-Forb	WATER-STARWORT
CALVUL	*	CALLUNA VULGARIS		5	[UPL]	Ad Shrub	HEATHER or LING
CALTUB	9	Calopogon tuberosus		-5	OBL	Nt P-Forb	GRASS-PINK
CALTPA	6	Caltha palustris		-5	OBL	Nt P-Forb	MARSH-MARIGOLD
CALSER	*	CALYLOPHUS SERRULATUS (OENOTHERA S.)		5	[UPL]	Ad P-Forb	TOOTHED EVENING-PRIMROSE
CALBUL	10	Calypso bulbosa	T	-3	FACW	Nt P-Forb	CALYPSO
CALHED	*	CALYSTEGIA HEDERACEA		5	[UPL]	Ad P-Forb	JAPANESE BINDWEED
CALSEP	2	Calystegia sepium		0	FAC	Nt P-Forb	HEDGE BINDWEED
CALSPI	8	Calystegia spithamea		5	[UPL]	Nt P-Forb	LOW BINDWEED
CAMSCI	9	Camassia scilloides	T	-1	FAC+	Nt P-Forb	WILD HYACINTH
CAMMIC	*	CAMELINA MICROCARPA		5	[UPL]	Ad A-Forb	SMALL-FRUITED FALSE FLAX
CAMSAT	*	CAMELINA SATIVA		1	FAC-	Ad A-Forb	FALSE FLAX
CAMAME	8	Campanula americana		0	FAC	Nt A-Forb	TALL BELLFLOWER
CAMAPR	7	Campanula aparinoides		-5	OBL	Nt P-Forb	MARSH BELLFLOWER
CAMAPU	7	Campanula aparinoides ssp. uliginosa		-5	[OBL]	Nt P-Forb	MARSH BELLFLOWER
CAMCAR	*	CAMPANULA CARPATICA		5	[UPL]	Ad P-Forb	TUSSOCK BELLFLOWER
CAMGLO	*	CAMPANULA GLOMERATA		5	[UPL]	Ad P-Forb	CLUSTERED BELLFLOWER
CAMMED	*	CAMPANULA MEDIUM		5	[UPL]	Ad P-Forb	CANTERBURY BELLS
CAMPER	*	CAMPANULA PERSICIFOLIA		5	[UPL]	Ad P-Forb	WILLOW HAREBELL
CAMRAP	*	CAMPANULA RAPUNCULOIDES		5	[UPL]	Ad P-Forb	ROVING BELLFLOWER
CAMROT	6	Campanula rotundifolia		1	FAC-	Nt P-Forb	HAREBELL
CAMTRA	*	CAMPANULA TRACHELIUM		5	[UPL]	Ad P-Forb	THROATWORT
CAMRAD	*	CAMPSIS RADICANS		0	[FAC]	Ad W-Vine	TRUMPET VINE
CANSAT	*	CANNABIS SATIVA		0	FAC	Ad A-Forb	HEMP
CAPBUR	*	CAPSELLA BURSA-PASTORIS		1	FAC-	Ad A-Forb	SHEPHERD'S PURSE

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CARARB	*	CARAGANA ARBORESCENS		5	[UPL]	Ad Shrub	PEA-TREE
CARBUL	4	Cardamine bulbosa		-5	OBL	Nt P-Forb	SPRING CRESS
CARDOU	6	Cardamine douglassii		-3	FACW	Nt P-Forb	PINK SPRING CRESS
CARFLE	*	CARDAMINE FLEXUOSA		5	[UPL]	Ad A-Forb	BITTER CRESS
CARHIR	*	CARDAMINE HIRSUTA		3	FACU	Ad A-Forb	HOARY BITTER CRESS
CARIMP	*	CARDAMINE IMPATIENS		5	[UPL]	Ad A-Forb	BITTER CRESS
CARPAR	10	Cardamine parviflora		0	FAC	Nt A-Forb	DRYLAND BITTER CRESS
CARPEN	1	Cardamine pensylvanica		-4	FACW+	Nt B-Forb	PENNSYLVANIA BITTER CRESS
CARPRA	10	Cardamine pratensis		-5	OBL	Nt P-Forb	CUCKOO-FLOWER
CARDRA	*	CARDARIA DRABA		5	[UPL]	Ad P-Forb	HOARY CRESS
CARPUB	*	CARDARIA PUBESCENS		5	[UPL]	Ad P-Forb	WHITE-TOP
CARHAL	*	CARDIOSPERMUM HALICACABUM		0	FAC	Ad A-Forb	BALLOON-VINE
CARACA	*	CARDUUS ACANTHOIDES		5	[UPL]	Ad B-Forb	PLUMELESS THISTLE
CARCRI	*	CARDUUS CRISPUS		5	[UPL]	Ad B-Forb	WELTED PLUMELESS THISTLE
CARNUT	*	CARDUUS NUTANS		5	UPL	Ad B-Forb	MUSK THISTLE
CXACUT	*	CAREX ACUTIFORMIS		-5	[OBL]	Ad P-Sedge	SEDGE
CXADUS	4	Carex adusta		5	[UPL]	Nt P-Sedge	SEDGE
CXAGGR	1	Carex aggregata		5	[UPL]	Nt P-Sedge	SEDGE
CXALAT	10	Carex alata		-5	[OBL]	Nt P-Sedge	WINGED SEDGE
CXALBI	3	Carex albicans (C. artitecta, C. emmonsii)		5	[UPL]	Nt P-Sedge	SEDGE
CXALBO	8	Carex albolutescens	T	-3	FACW	Nt P-Sedge	GREENISH-WHITE SEDGE
CXALBU	5	Carex albursina		5	[UPL]	Nt P-Sedge	SEDGE
CXALOP	3	Carex alopecoidea		-4	FACW+	Nt P-Sedge	SEDGE
CXAMPH	8	Carex amphibola		-2	FACW-	Nt P-Sedge	SEDGE
CXANNE	1	Carex annectens		-3	FACW	Nt P-Sedge	SEDGE
CXAQUA	7	Carex aquatilis		-5	OBL	Nt P-Sedge	SEDGE
CXARTA	8	Carex arcta		-5	[OBL]	Nt P-Sedge	SEDGE
CXARTT	3	Carex arctata		5	UPL	Nt P-Sedge	SEDGE
CXARGY	6	Carex argyrantha		4	[FACU-]	Nt P-Sedge	SEDGE
CXASSI	9	Carex assiniboinensis	T	5	[UPL]	Nt P-Sedge	ASSINIBOIA SEDGE
CXATHE	5	Carex atherodes		-5	OBL	Nt P-Sedge	SEDGE
CXATLA	7	Carex atlantica (C. howei)		-3	FACW	Nt P-Sedge	SEDGE
CXATRA	10	Carex atratiformis	T	-2	FACW-	Nt P-Sedge	SEDGE
CXAURE	3	Carex aurea		-4	FACW+	Nt P-Sedge	SEDGE
CXBACK	8	Carex backii		5	[UPL]	Nt P-Sedge	SEDGE
CXBEBB	4	Carex bebbii		-5	OBL	Nt P-Sedge	SEDGE
CXBICK	10	Carex bicknellii		1	FAC-	Nt P-Sedge	SEDGE
CXBLAN	1	Carex blanda		0	FAC	Nt P-Sedge	SEDGE
CXBREV	3	Carex brevior		0	FAC	Nt P-Sedge	SEDGE
CXBROM	6	Carex bromoides		-4	FACW+	Nt P-Sedge	SEDGE
CXBRUN	5	Carex brunnescens		-3	FACW	Nt P-Sedge	SEDGE
CXBUSH	*	CAREX BUSHII		-3	[FACW]	Ad P-Sedge	BUSH'S SEDGE
CXBUXB	10	Carex buxbaumii		-5	OBL	Nt P-Sedge	SEDGE
CXCANE	8	Carex canescens		-5	OBL	Nt P-Sedge	SEDGE
CXCAPI	9	Carex capillaris		-3	FACW	Nt P-Sedge	SEDGE
CXCARE	10	Carex careyana		5	[UPL]	Nt P-Sedge	SEDGE
CXCAST	6	Carex castanea		-4	FACW+	Nt P-Sedge	SEDGE
CXCEPD	5	Carex cephaloidea		2	FACU+	Nt P-Sedge	SEDGE
CXCEPP	3	Carex cephalophora		3	FACU	Nt P-Sedge	SEDGE
CXCHOR	10	Carex chordorrhiza		-5	OBL	Nt P-Sedge	SEDGE

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CXCOMM	2	Carex communis		5	[UPL]	Nt P-Sedge	SEDGE
CXCOMO	5	Carex comosa		-5	OBL	Nt P-Sedge	SEDGE
CXCONC	10	Carex concinna	SC	2	FACU+	Nt P-Sedge	BEAUTY SEDGE
CXCONJ	10	Carex conjuncta	T	-4	[FACW+]	Nt P-Sedge	SEDGE
CXCONO	9	Carex conoidea		2	FACU+	Nt P-Sedge	BEAUTY SEDGE
CXCRAE	10	Carex crawei		-3	FACW	Nt P-Sedge	SEDGE
CXCRAF	4	Carex crawfordii		-1	FAC+	Nt P-Sedge	SEDGE
CXCRIN	4	Carex crinita		-4	FACW+	Nt P-Sedge	SEDGE
CXCRIS	3	Carex cristatella		-4	FACW+	Nt P-Sedge	SEDGE
CXCRUS	10	Carex crus-corvi	T	-5	OBL	Nt P-Sedge	SEDGE
CXCRYP	10	Carex cryptolepis		-5	OBL	Nt P-Sedge	SEDGE
CXCUMU	8	Carex cumulata		4	FACU-	Nt P-Sedge	SEDGE
CXDAVI	8	Carex davisii	SC	-1	FAC+	Nt P-Sedge	DAVIS' SEDGE
CXDEBD	6	Carex debilis		-3	FACW	Nt P-Sedge	SWAMP SEDGE
CXDEBR	10	Carex debilis var. rudgei		-3	[FACW]	Nt P-Sedge	SEDGE
CXDECO	10	Carex decomposita	X	-5	OBL	Nt P-Sedge	LOG SEDGE
CXDEFL	5	Carex deflexa		3	[FACU]	Nt P-Sedge	SEDGE
CXDEWE	3	Carex deweyana		4	FACU-	Nt P-Sedge	SEDGE
CXDIAN	8	Carex diandra		-5	OBL	Nt P-Sedge	SEDGE
CXDIGI	5	Carex digitalis		5	[UPL]	Nt P-Sedge	SEDGE
CXDISP	10	Carex disperma		-5	OBL	Nt P-Sedge	SEDGE
CXDURI	*	CAREX DURIUSCULA (C. STENOPHYLLA)		5	[UPL]	Ad P-Sedge	SEDGE
CXEBCUR	7	Carex eburnea		4	FACU-	Nt P-Sedge	SEDGE
CXECHI	6	Carex echinata (cephalantha/angustior)		-5	OBL	Nt P-Sedge	SEDGE
CXEMOR	7	Carex emoryi		-5	OBL	Nt P-Sedge	SEDGE
CXEXIL	10	Carex exilis		-5	OBL	Nt P-Sedge	SEDGE
CXFEST	8	Carex festucacea	SC	0	FAC	Nt P-Sedge	FESCUE SEDGE
CXFLAC	*	CAREX FLACCA		0	[FAC]	Ad P-Sedge	SEDGE
CXFLAV	4	Carex flava		-5	OBL	Nt P-Sedge	SEDGE
CXFOEN	3	Carex foenea (C. aenea)		5	[UPL]	Nt P-Sedge	SEDGE
CXFOLL	10	Carex folliculata		-5	[OBL]	Nt P-Sedge	SEDGE
CXFORM	10	Carex formosa		-2	FACW-	Nt P-Sedge	SEDGE
CXFRAN	4	Carex frankii	SC	-5	OBL	Nt P-Sedge	FRANK'S SEDGE
CXGARB	8	Carex garberi		-3	FACW	Nt P-Sedge	SEDGE
CXGRAS	5	Carex gracilescens		5	[UPL]	Nt P-Sedge	SEDGE
CXGRAA	4	Carex gracillima		3	FACU	Nt P-Sedge	SEDGE
CXGRAN	2	Carex granularis		-4	FACW+	Nt P-Sedge	SEDGE
CXGRAV	10	Carex gravida	X	5	[UPL]	Nt P-Sedge	SEDGE
CXGRAY	6	Carex grayi		-4	FACW+	Nt P-Sedge	SEDGE
CXGRIS	3	Carex grisea		-3	[FACW]	Nt P-Sedge	SEDGE
CXGYNA	3	Carex gynandra		-4	[FACW+]	Nt P-Sedge	SEDGE
CXGYNO	10	Carex gynocrates		-5	OBL	Nt P-Sedge	SEDGE
CXHAYD	8	Carex haydenii	X	-5	[OBL]	Nt P-Sedge	HAYDEN'S SEDGE
CXHELE	10	Carex heleonastes	E	-5	[OBL]	Nt P-Sedge	SEDGE
CXHIRS	3	Carex hirsutella		5	[UPL]	Nt P-Sedge	SEDGE
CXHIRA	*	CAREX HIRTA		4	[FACU-]	Ad P-Sedge	SEDGE
CXHIRI	5	Carex hirtifolia		5	[UPL]	Nt P-Sedge	SEDGE
CXHITC	5	Carex hitchcockiana		5	[UPL]	Nt P-Sedge	SEDGE
CXHOUG	5	Carex houghtoniana		5	[UPL]	Nt P-Sedge	SEDGE
CXHYAL	4	Carex hyalinolepis		-5	OBL	Nt P-Sedge	SEDGE

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CXHYST	2	Carex hystericina		-5	OBL	Nt P-Sedge	SEDGE
CXINTE	3	Carex interior		-5	OBL	Nt P-Sedge	SEDGE
CXINTU	3	Carex intumescens		-4	FACW+	Nt P-Sedge	SEDGE
CXJAME	8	Carex jamesii		5	[UPL]	Nt P-Sedge	JAMES' SEDGE
CXLACU	6	Carex lacustris		-5	OBL	Nt P-Sedge	SEDGE
CXLAEV	8	Carex laevivaginata		-5	OBL	Nt P-Sedge	SEDGE
CXLASI	8	Carex lasiocarpa		-5	OBL	Nt P-Sedge	SEDGE
CXLAXC	8	Carex laxiculmis		5	[UPL]	Nt P-Sedge	SEDGE
CXLAXF	8	Carex laxiflora		0	[FAC]	Nt P-Sedge	SEDGE
CXLEAV	*	CAREX LEAVENWORTHII		5	[UPL]	Ad P-Sedge	SEDGE
CXLENT	10	Carex lenticularis		-5	OBL	Nt P-Sedge	SEDGE
CXLEPA	5	Carex leptalea		-5	OBL	Nt P-Sedge	SEDGE
CXLEPO	3	Carex leptoneuria		0	FAC	Nt P-Sedge	SEDGE
CXLIMO	10	Carex limosa		-5	OBL	Nt P-Sedge	BOG SEDGE
CXLIVI	10	Carex livida		-5	OBL	Nt P-Sedge	SEDGE
CXLONG	6	Carex longii		-5	OBL	Nt P-Sedge	SEDGE
CXLUCO	4	Carex lucorum		5	[UPL]	Nt P-Sedge	SEDGE
CXLUPS	10	Carex lupuliformis	T	-4	FACW+	Nt P-Sedge	SEDGE
CXLUPA	4	Carex lupulina		-5	OBL	Nt P-Sedge	SEDGE
CXLURI	3	Carex lurida		-5	OBL	Nt P-Sedge	SEDGE
CXMEAD	8	Carex meadii		0	FAC	Nt P-Sedge	SEDGE
CXMEDI	10	Carex media	T	0	FAC	Nt P-Sedge	SEDGE
CXMERR	4	Carex merritt-fernaldii		5	[UPL]	Nt P-Sedge	SEDGE
CXMESO	*	CAREX MESOCHOREA		5	[UPL]	Ad P-Sedge	SEDGE
CXMICH	10	Carex michauxiana		-5	OBL	Nt P-Sedge	SEDGE
CXMOLE	2	Carex molesta		2	[FACU+]	Nt P-Sedge	SEDGE
CXMUHL	7	Carex muhlenbergii		5	[UPL]	Nt P-Sedge	SEDGE
CXMURI	*	CAREX MURICATA		5	[UPL]	Ad P-Sedge	SEDGE
CXMUSK	6	Carex muskingumensis		-5	OBL	Nt P-Sedge	SEDGE
CXNIGR	7	Carex nigra	E	-5	[OBL]	Nt P-Sedge	BLACK SEDGE
CXNORM	5	Carex normalis		-3	FACW	Nt P-Sedge	SEDGE
CXNOVA	9	Carex novae-angliae	T	5	[UPL]	Nt P-Sedge	NEW ENGLAND SEDGE
CXOLIC	8	Carex oligocarpa	T	5	[UPL]	Nt P-Sedge	SEDGE
CXOLIS	10	Carex oligosperma		-5	OBL	Nt P-Sedge	SEDGE
CXORMO	5	Carex ormostachya		5	[UPL]	Nt P-Sedge	SEDGE
CXPALL	5	Carex pallescens		3	[FACU]	Nt P-Sedge	PALE SEDGE
CXPAUC	10	Carex pauciflora		-5	OBL	Nt P-Sedge	SEDGE
CXPAUP	8	Carex paupercula		-5	OBL	Nt P-Sedge	SEDGE
CXPECK	3	Carex peckii		5	[UPL]	Nt P-Sedge	SEDGE
CXPEDU	5	Carex pedunculata		5	[UPL]	Nt P-Sedge	SEDGE
CXPELL	2	Carex pellita (C. lanuginosa)		-5	OBL	Nt P-Sedge	SEDGE
CXPENS	4	Carex pensylvanica		5	[UPL]	Nt P-Sedge	SEDGE
CXPLAN	8	Carex plantaginea		5	[UPL]	Nt P-Sedge	SEDGE
CXPLAT	10	Carex platyphylla	T	5	[UPL]	Nt P-Sedge	BROAD-LEAVED SEDGE
CXPRAE	*	CAREX PRAEGRACILIS		-3	FACW	Ad P-Sedge	SEDGE
CXPRAI	10	Carex prairea		-4	FACW+	Nt P-Sedge	SEDGE
CXPRAS	10	Carex prasina		-5	OBL	Nt P-Sedge	SEDGE
CXPRAT	10	Carex praticola		0	FAC	Nt P-Sedge	SEDGE
CXPROJ	3	Carex projecta		-4	FACW+	Nt P-Sedge	SEDGE
CXPSEU	5	Carex pseudo-cyperus		-5	OBL	Nt P-Sedge	SEDGE

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CXRADI	2	Carex radiata		1	[FAC-]	Nt P-Sedge	STRAIGHT-STYLED WOOD SEDGE
CXRETF	1	Carex retroflexa		5	[UPL]	Nt P-Sedge	SEDGE
CXRETS	3	Carex retrorsa		-5	OBL	Nt P-Sedge	SEDGE
CXRICH	9	Carex richardsonii	SC	5	UPL	Nt P-Sedge	RICHARDSON'S SEDGE
CXROSE	2	Carex rosea (C. convoluta)		5	[UPL]	Nt P-Sedge	CURLY-STYLED WOOD SEDGE
CXROSS	10	Carex rossii	T	5	[UPL]	Nt P-Sedge	ROSS' SEDGE
CXROST	10	Carex rostrata		-5	OBL	Nt P-Sedge	SEDGE
CXRUGO	4	Carex rugosperma		5	[UPL]	Nt P-Sedge	SEDGE
CXSART	5	Carex sartwellii		-4	FACW+	Nt P-Sedge	SEDGE
CXSCAB	4	Carex scabrata		-5	OBL	Nt P-Sedge	SEDGE
CXSCHW	10	Carex schweinitzii		-5	OBL	Nt P-Sedge	SEDGE
CXSCIR	10	Carex scirpoidea	T	3	FACU	Nt P-Sedge	BULRUSH SEDGE
CXSCOP	4	Carex scoparia		-3	FACW	Nt P-Sedge	SEDGE
CXSEOR	10	Carex seorsa	T	-4	FACW+	Nt P-Sedge	SEDGE
CXSICC	5	Carex siccata (C. foenea)		5	[UPL]	Nt P-Sedge	SEDGE
CXSPAR	5	Carex sparganioides		0	FAC	Nt P-Sedge	SEDGE
CXSPIC	*	CAREX SPICATA		5	[UPL]	Ad P-Sedge	SEDGE
CXSPRE	5	Carex sprengei		0	FAC	Nt P-Sedge	SEDGE
CXSQUA	9	Carex squarrosa	SC	-5	OBL	Nt P-Sedge	SEDGE
CXSTER	10	Carex sterilis		-5	OBL	Nt P-Sedge	SEDGE
CXSTIP	1	Carex stipata		-5	[OBL]	Nt P-Sedge	SEDGE
CXSTRA	10	Carex straminea	E	-5	OBL	Nt P-Sedge	STRAW SEDGE
CXSTRI	4	Carex stricta		-5	OBL	Nt P-Sedge	SEDGE
CXSUBE	8	Carex subrecta		-5	OBL	Nt P-Sedge	SEDGE
CXSWAN	4	Carex swanii		3	FACU	Nt P-Sedge	SEDGE
CXSYCH	6	Carex sychnocephala		-4	FACW+	Nt P-Sedge	LONG-BEAKED SEDGE
CXTENE	4	Carex tenera		-1	FAC+	Nt P-Sedge	SEDGE
CXTENU	10	Carex tenuiflora		-5	OBL	Nt P-Sedge	SEDGE
CXTETA	9	Carex tetanica		-3	FACW	Nt P-Sedge	SEDGE
CXTINC	4	Carex tinctoria	SC	4	[FACU-]	Nt P-Sedge	SEDGE
CXTONT	5	Carex tonsa		5	[UPL]	Nt P-Sedge	SEDGE
CXTONR	4	Carex tonsa var. rugosperma		5	[UPL]	Nt P-Sedge	SEDGE
CXTRIB	3	Carex tribuloides		-4	FACW+	Nt P-Sedge	SEDGE
CXTRIC	8	Carex trichocarpa	SC	-5	OBL	Nt P-Sedge	HAIRY-FRUITED SEDGE
CXTRIS	9	Carex trisperma		-5	OBL	Nt P-Sedge	SEDGE
CXTUCK	8	Carex tuckermanii		-5	OBL	Nt P-Sedge	SEDGE
CXTYPH	9	Carex typhina	T	-5	OBL	Nt P-Sedge	CAT-TAIL SEDGE
CXUMBE	5	Carex umbellata		5	[UPL]	Nt P-Sedge	SEDGE
CXUTRI	5	Carex utriculata		-5	[OBL]	Nt P-Sedge	SEDGE
CXVAGI	10	Carex vaginata		-5	OBL	Nt P-Sedge	SEDGE
CXVESI	7	Carex vesicaria		-5	OBL	Nt P-Sedge	SEDGE
CXVIRE	8	Carex virescens		3	[FACU]	Nt P-Sedge	SEDGE
CXVIRI	4	Carex viridula		-5	OBL	Nt P-Sedge	SEDGE
CXVULP	1	Carex vulpinoidea		-5	OBL	Nt P-Sedge	SEDGE
CXWIEG	9	Carex wiegandii	T	-5	[OBL]	Nt P-Sedge	WIEGAND'S SEDGE
CXWOOD	8	Carex woodii		0	FAC	Nt P-Sedge	SEDGE
CARCAO	6	Carpinus caroliniana		0	FAC	Nt Tree	BLUE-BEECH
CARCAV	*	CARUM CARVI		5	[UPL]	Ad B-Forb	CARAWAY
CARCOR	5	Carya cordiformis		0	FAC	Nt Tree	BITTERNUT HICKORY
CARGLA	5	Carya glabra (C. ovalis)		3	FACU	Nt Tree	PIGNUT HICKORY

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CARLAC	9	<i>Carya laciniosa</i>		-3	FACW	Nt Tree	SHELLBARK HICKORY
CAROVA	5	<i>Carya ovata</i>		3	FACU	Nt Tree	SHAGBARK HICKORY
CASCHA	2	<i>Cassia chamaecrista (C. fasciculata)</i>		4	FACU-	Nt A-Forb	PARTRIDGE-PEA
CASHEB	5	<i>Cassia hebecarpa</i>		-3	FACW	Nt P-Forb	WILD SENNA
CASNIC	3	<i>Cassia nictitans</i>		4	FACU-	Nt A-Forb	WILD SENSITIVE PLANT
CASTOR	*	CASSIA TORA		5	[UPL]	Ad A-Forb	SICKLE-POD
CASDEN	9	<i>Castanea dentata</i>	E	5	[UPL]	Nt Tree	AMERICAN CHESTNUT
CASCOC	8	<i>Castilleja coccinea</i>		0	FAC	Nt A-Forb	INDIAN PAINTBRUSH
CASSEP	10	<i>Castilleja septentrionalis</i>	T	-4	[FACW+]	Nt P-Forb	PALE INDIAN PAINTBRUSH
CATSPE	*	CATALPA SPECIOSA		3	FACU	Ad Tree	NORTHERN CATALPA
CAUGIG	5	<i>Caulophyllum giganteum</i>		5	[UPL]	Nt P-Forb	BLUE COHOSH
CAUTHA	5	<i>Caulophyllum thalictroides</i>		5	[UPL]	Nt P-Forb	BLUE COHOSH
CEAAME	8	<i>Ceanothus americanus</i>		5	[UPL]	Nt Shrub	NEW JERSEY-TEA
CEAHER	9	<i>Ceanothus herbaceus</i>		5	[UPL]	Nt Shrub	NEW JERSEY-TEA
CEASAN	10	<i>Ceanothus sanguineus</i>	T	5	[UPL]	Nt Shrub	REDSTEM CEANOTHUS
CELORB	*	CELASTRUS ORBICULATA		5	UPL	Ad W-Vine	ORIENTAL BITTERSWEET
CELSCA	3	<i>Celastrus scandens</i>		3	FACU	Nt W-Vine	AMERICAN BITTERSWEET
CELOCC	5	<i>Celtis occidentalis</i>		1	FAC-	Nt Tree	HACKBERRY
CELTEN	5	<i>Celtis tenuifolia</i>	SC	5	[UPL]	Nt Shrub	DWARF HACKBERRY
CENLON	0	<i>Cenchrus longispinus</i>		5	[UPL]	Nt A-Grass	SANDBUR
CENCYA	*	CENTAUREA CYANUS		5	[UPL]	Ad A-Forb	BACHELOR'S BUTTON
CENDIF	*	CENTAUREA DIFFUSA		5	[UPL]	Ad A-Forb	SPREADING STAR THISTLE
CENJAC	*	CENTAUREA JACEA		5	[UPL]	Ad P-Forb	BROWN KNAPWEED
CENMAR	*	CENTAUREA MACROCEPHALA		5	[UPL]	Ad P-Forb	LARGE-HEADED KNAPWEED
CENMAU	*	CENTAUREA MACULOSA		5	[UPL]	Ad B-Forb	SPOTTED BLUET
CENMON	*	CENTAUREA MONTANA		5	[UPL]	Ad P-Forb	MOUNTAIN KNAPWEED
CENNIA	*	CENTAUREA NIGRA		5	[UPL]	Ad P-Forb	BLACK KNAPWEED
CENNIS	*	CENTAUREA NIGRESCENS		5	[UPL]	Ad P-Forb	SHORT-FRINGED KNAPWEED
CENREP	*	CENTAUREA REPENS		5	[UPL]	Ad P-Forb	RUSSIAN KNAPWEED
CENSOL	*	CENTAUREA SOLSTITIALIS		5	[UPL]	Ad P-Forb	YELLOW STARThistle
CENVIR	*	CENTAUREA VIRGATA		5	[UPL]	Ad P-Forb	TURKISH KNAPWEED
CENPRA	*	CENTAUREA XPRATENSIS		5	[UPL]	Ad P-Forb	RADIATE BLACK KNAPWEED
CENERY	*	CENTAURIUM ERYTHRAEA		-4	[FACW+]	Ad B-Forb	FORKING CENTAURY
CENPUL	*	CENTAURIUM PULCHELLUM		4	[FACU-]	Ad A-Forb	BRANCHING CENTAURY
CEPOCC	7	<i>Cephalanthus occidentalis</i>		-5	OBL	Nt Shrub	BUTTONBUSH
CERARV	6	<i>Cerastium arvense</i>		4	FACU-	Nt P-Forb	FIELD CHICKWEED
CERFON	*	CERASTIUM FONTANUM		3	[FACU]	Ad P-Forb	MOUSE-EAR CHICKWEED
CERGLO	*	CERASTIUM GLOMERATUM		5	[UPL]	Ad P-Forb	CHICKWEED
CERNUT	4	<i>Cerastium nutans</i>		2	FACU+	Nt A-Forb	NODDING CHICKWEED
CERPUM	*	CERASTIUM PUMILUM		5	[UPL]	Ad A-Forb	MOUSE-EAR CHICKWEED
CERSEM	*	CERASTIUM SEMIDECANDRUM		5	UPL	Ad A-Forb	SMALL MOUSE-EAR CHICKWEED
CERTOM	*	CERASTIUM TOMENTOSUM		5	[UPL]	Ad P-Forb	SNOW-IN-SUMMER
CERDEM	1	<i>Ceratophyllum demersum</i>		-5	OBL	Nt P-Forb	COONTAIL
CERECH	10	<i>Ceratophyllum echinatum</i>		-5	[OBL]	Nt P-Forb	SPINY HORNWORT
CERCAN	8	<i>Cercis canadensis</i>		3	FACU	Nt Tree	REDBUD
CHAMIN	*	CHAENORRHINUM MINUS		5	[UPL]	Ad A-Forb	DWARF SNAPDRAGON
CHAPRO	8	<i>Chaerophyllum procumbens</i>		-1	FAC+	Nt A-Forb	WILD CHERVIL
CHAMAR	*	CHAITURUS MARRUBIASTRUM		5	[UPL]	Ad B-Forb	MINT
CHACAL	8	<i>Chamaedaphne calyculata</i>		-5	OBL	Nt Shrub	LEATHERLEAF
CHALUT	*	CHAMAELIRIUM LUTEUM		4	FACU-	Ad P-Forb	BLAZING-STAR

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CHANUK	9	Chamaerhodos nuttallii var. keweenawensis	E	5	[UPL]	Nt Shrub	KEWEENAW ROCK-ROSE
CHALAT	10	Chasmanthium latifolium (Uniola latifolia)	T	-3	FACW	Nt P-Grass	WILD-OATS
CHEMAJ	*	CHELIDONIUM MAJUS		5	[UPL]	Ad B-Forb	CELANDINE
CHEGLB	7	Chelone glabra		-5	OBL	Nt P-Forb	TURTLEHEAD
CHEOBL	9	Chelone obliqua	E	-5	OBL	Nt P-Forb	RED TURTLEHEAD
CHEALB	*	CHENOPODIUM ALBUM		1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CHEAMB	*	CHENOPODIUM AMBROSIOIDES		1	FAC-	Ad A-Forb	WORMSEED
CHEARI	*	CHENOPODIUM ARISTATUM		1	[FAC-]	Ad A-Forb	GOOSEFOOT
CHEBON	*	CHENOPODIUM BONUS-HENRICUS		5	[UPL]	Ad P-Forb	GOOD-KING-HENRY
CHEBOT	*	CHENOPODIUM BOTRYS		4	FACU-	Ad A-Forb	JERUSALEM-OAK
CHECAP	5	Chenopodium capitatum		5	[UPL]	Nt A-Forb	STRAWBERRY BLITE
CHEGLC	*	CHENOPODIUM GLAUCUM		-3	FACW	Ad A-Forb	OAK-LEAVED GOOSEFOOT
CHEHYB	1	Chenopodium hybridum		5	[UPL]	Nt A-Forb	MAPLE-LEAVED GOOSEFOOT
CHEMUR	*	CHENOPODIUM MURALE		5	[UPL]	Ad A-Forb	NETTLE-LEAVED GOOSEFOOT
CHERUB	*	CHENOPODIUM RUBRUM		-5	OBL	Ad A-Forb	COAST BLIGHT
CHESTA	5	Chenopodium standleyanum		5	[UPL]	Nt A-Forb	WOODLAND GOOSEFOOT
CHESUB	*	CHENOPODIUM SUBGLABRUM		5	[UPL]	Ad A-Forb	GOOSEFOOT
CHEURB	*	CHENOPODIUM URBICUM		5	[UPL]	Ad A-Forb	CITY GOOSEFOOT
CHEVUL	*	CHENOPODIUM VULVARIA		5	[UPL]	Ad A-Forb	STINKING GOOSEFOOT
CHIMAC	8	Chimaphila maculata		5	[UPL]	Nt Shrub	SPOTTED WINTERGREEN
CHIUMB	8	Chimaphila umbellata		5	[UPL]	Nt Shrub	PIPSISSEWA
CHLVER	*	CHLORIS VERTICILLATA		5	[UPL]	Ad P-Grass	WINDMILL GRASS
CHOJUN	*	CHONDRILLA JUNCEA		5	[UPL]	Ad P-Forb	SKELETON-WEED
CHOTEN	*	CHORISPORA TENELLA		5	[UPL]	Ad A-Forb	PURPLE ROCKET
CHRBAL	*	CHRYSANTHEMUM BALSAMITA		5	[UPL]	Ad P-Forb	COSTMARY
CHRLEU	*	CHRYSANTHEMUM LEUCANTHEMUM		5	[UPL]	Ad P-Forb	OX-EYE DAISY
CHRPAR	*	CHRYSANTHEMUM PARTHENIUM		5	[UPL]	Ad P-Forb	FEVERFEW
CHRSUP	*	CHRYSANTHEMUM XSUPERBUM		5	[UPL]	Ad P-Forb	SHASTA DAISY
CHRCAM	*	CHRYSOPTERIS CAMPORUM		5	[UPL]	Ad P-Forb	PRAIRIE GOLDEN ASTER
CHRVIL	*	CHRYSOPTERIS VILLOSA		5	[UPL]	Ad P-Forb	GOLDEN ASTER
CHROME	6	Chrysosplenium americanum		-5	OBL	Nt P-Forb	GOLDEN SAXIFRAGE
CICINT	*	CICORIUM INTYBUS		5	[UPL]	Ad P-Forb	CHICORY
CICBUL	5	Cicuta bulbifera		-5	OBL	Nt P-Forb	WATER HEMLOCK
CICMAC	4	Cicuta maculata		-5	OBL	Nt B-Forb	WATER HEMLOCK
CIMRAC	*	CIMICIFUGA RACEMOSA		3	[FACU]	Ad P-Forb	BLACK SNAKEROOT
CINARU	7	Cinna arundinacea		-3	FACW	Nt P-Grass	WOOD REEDGRASS
CINLAT	5	Cinna latifolia		-4	FACW+	Nt P-Grass	WOOD REEDGRASS
CIRALP	4	Circaea alpina		-3	FACW	Nt P-Forb	SMALL ENCHANTER'S-NIGHTSHADE
CIRLUT	2	Circaea lutetiana		3	FACU	Nt P-Forb	ENCHANTER'S-NIGHTSHADE
CIRALT	5	Cirsium altissimum		5	[UPL]	Nt P-Forb	TALL THISTLE
CIRARV	*	CIRSIUM ARVENSE		3	FACU	Ad P-Forb	CANADIAN-THISTLE
CIRDIS	4	Cirsium discolor		5	[UPL]	Nt B-Forb	PASTURE-THISTLE
CIRFLO	*	CIRSIUM FLODMANII		5	[UPL]	Ad P-Forb	PRAIRIE-THISTLE
CIRHIL	8	Cirsium hillii	SC	5	[UPL]	Nt P-Forb	HILL'S THISTLE
CIRMUT	6	Cirsium muticum		-5	OBL	Nt B-Forb	SWAMP-THISTLE
CIRPAL	*	CIRSIUM PALUSTRE		-4	[FACW+]	Ad B-Forb	MARSH-THISTLE
CIRPIT	10	Cirsium pitcheri	T	5	[UPL]	Nt B-Forb	PITCHER'S THISTLE
CIRUND	*	CIRSIUM UNDULATUM		1	FAC-	Ad P-Forb	WAVY-LEAVED THISTLE
CIRVUL	*	CIRSIUM VULGARE		4	FACU-	Ad B-Forb	BULL-THISTLE
CITLAN	*	CITRULLUS LANATUS		5	[UPL]	Ad A-Forb	WATERMELON

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CLAMAR	10	Cladium mariscoides		-5	OBL	Nt P-Sedge	TWIG-RUSH
CLACAR	6	Claytonia caroliniana		3	FACU	Nt P-Forb	CAROLINA SPRING-BEAUTY
	*	CLAYTONIA SIBIRICA		1	[FAC-]	Ad P-Forb	SIBERIAN SPRING-BEAUTY
CLAVIR	4	Claytonia virginica		3	FACU	Nt P-Forb	SPRING-BEAUTY
CLEOCC	9	Clematis occidentalis (C. verticillaris)	SC	5	[UPL]	Nt H-Vine	PURPLE CLEMATIS
CLEVIR	4	Clematis virginiana		0	FAC	Nt W-Vine	VIRGIN'S BOWER
CLEHAS	*	CLEOME HASSLERIANA		5	[UPL]	Ad A-Forb	SPIDER PLANT
CLESER	*	CLEOME SERRULATA		4	FACU-	Ad A-Forb	ROCKY MOUNTAIN BEE PLANT
CLIVUL	3	Clinopodium vulgare (Satureja vulgaris)		5	[UPL]	Nt P-Forb	WILD BASIL
CLIBOR	5	Clintonia borealis		-1	FAC+	Nt P-Forb	BLUEBEAD-LILY; CORN-LILY
COEVIR	8	Coeloglossum viride		0	FAC	Nt P-Forb	LONG-BRACTED GREEN ORCHID
COIMON	*	COINCYA MONENSIS		5	[UPL]	Ad B-Forb	WALLFLOWER CABBAGE
COLPAR	8	Collinsia parviflora	T	4	[FACU-]	Nt A-Forb	SMALL BLUE-EYED MARY
COLVER	10	Collinsia verna		3	FACU	Nt A-Forb	BLUE-EYED MARY
COLCAN	8	Collinsonia canadensis		0	FAC	Nt P-Forb	RICHWEED
COLLIN	*	COLLOMIA LINEARIS		3	[FACU]	Ad A-Forb	SLENDER GLIA
COMUMB	5	Comandra umbellata		3	FACU	Nt P-Forb	BASTARD-TOADFLAX
COMCOM	*	COMMELINA COMMUNIS		0	FAC	Ad A-Forb	COMMON DAY FLOWER
COMERE	9	Commelina erecta	X	5	[UPL]	Nt P-Forb	SLENDER DAYFLOWER
COMPER	6	Comptonia peregrina		5	[UPL]	Nt Shrub	SWEET-FERN
CONCHI	10	Conioselinum chinense		-5	[OBL]	Nt P-Forb	HEMLOCK PARSLEY
CONMAC	*	CONIUM MACULATUM		-3	FACW	Ad B-Forb	POISON HEMLOCK
CONAME	10	Conopholis americana		5	[UPL]	Nt P-Forb	SQUAWROOT
CONORI	*	CONRINGIA ORIENTALIS		5	[UPL]	Ad A-Forb	HARE'S EAR MUSTARD
CONAMB	*	CONSOLIDA AMBIGUA		5	[UPL]	Ad A-Forb	LARKSPUR
CONMAJ	*	CONVALLARIA MAJALIS		5	[UPL]	Ad P-Forb	LILY-OF-THE-VALLEY
CONARV	*	CONVOLVULUS ARVENSIS		5	[UPL]	Ad P-Forb	FIELD BINDWEED
CONCAN	0	Conyza canadensis (Erigeron c.)		1	FAC-	Nt A-Forb	HORSEWEED
COPTRI	5	Coptis trifolia (C. groenlandica)		-3	FACW	Nt P-Forb	GOLDTHREAD
CORMAC	5	Corallorhiza maculata		4	FACU-	Nt P-Forb	SPOTTED CORAL-ROOT
CORODO	8	Corallorhiza odontorhiza		5	[UPL]	Nt P-Forb	FALL CORAL-ROOT
CORSTR	6	Corallorhiza striata		4	FACU-	Nt P-Forb	STRIPED CORAL-ROOT
CORTRF	6	Corallorhiza trifida		-2	FACW-	Nt P-Forb	NORTHERN CORAL-ROOT
CORGRA	*	COREOPSIS GRANDIFLORA		5	[UPL]	Ad P-Forb	LARGE-FLOWERED COREOPSIS
CORLAN	8	Coreopsis lanceolata		3	FACU	Nt P-Forb	SAND COREOPSIS
CORPAL	10	Coreopsis palmata	T	5	[UPL]	Nt P-Forb	PRAIRIE COREOPSIS
CORTIN	*	COREOPSIS TINCTORIA		1	[FAC-]	Ad P-Forb	GOLDEN COREOPSIS
CORTRP	7	Coreopsis tripteris		0	FAC	Nt P-Forb	TALL COREOPSIS
CORSAT	*	CORIANDRUM SATIVUM		5	[UPL]	Ad A-Forb	CORIANDER
CORHYS	3	Corispermum hyssopifolium		3	FACU	Nt A-Forb	COMMON BUGSEED
CORORI	*	CORISPERMUM ORIENTALE		5	[UPL]	Ad A-Forb	BUGSEED
CORALT	5	Cornus alternifolia		5	[UPL]	Nt Tree	ALTERNATE-LEAVED DOGWOOD
CORAMO	2	Cornus amomum		-4	FACW+	Nt Shrub	SILKY DOGWOOD
CORCAA	6	Cornus canadensis		0	FAC	Nt Shrub	BUNCHBERRY
CORDRU	6	Cornus drummondii		0	FAC	Nt Shrub	ROUGH-LEAVED DOGWOOD
CORFLO	8	Cornus florida		4	FACU-	Nt Tree	FLOWERING DOGWOOD
CORFOE	1	Cornus foemina (C. racemosa)		-2	FACW-	Nt Shrub	GRAY DOGWOOD
CORRUG	6	Cornus rugosa		5	[UPL]	Nt Shrub	ROUND-LEAVED DOGWOOD
CORSTO	2	Cornus stolonifera		-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CORVAR	*	CORONILLA VARIA		5	[UPL]	Ad P-Forb	CROWN-VETCH

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CORAUR	5	Corydalis aurea		5	[UPL]	Nt A-Forb	GOLDEN CORYDALIS
CORFLA	8	Corydalis flavula	T	-4	FACW+	Nt B-Forb	YELLOW HARLEQUIN
CORSEM	5	Corydalis sempervirens		5	[UPL]	Nt B-Forb	PINK or PALE CORYDALIS
CORSOL	*	CORYDALIS SOLIDA		5	[UPL]	Ad P-Forb	BULBUS CORYDALIS
CORAME	5	Corylus americana		4	FACU-	Nt Shrub	HAZELNUT
CORCOR	5	Corylus cornuta		5	[UPL]	Nt Shrub	BEAKED HAZELNUT
CORCAE	*	CORYNEPHORUS CANESCENS		5	[UPL]	Ad P-Grass	SILVER GRASS
COSBIP	*	COSMOS BIPINNATUS		-5	[OBL]	Ad A-Forb	COMMON COSMOS
COSSUL	*	COSMOS SULPHUREUS		-5	[OBL]	Ad A-Forb	ORANGE COSMOS
COTCOG	*	COTINUS COGGYGRIA		5	[UPL]	Ad Shrub	SMOKE TREE
CRAAPI	4	Crataegus apiomorpha		5	[UPL]	Nt Tree	HAWTHORN
CRABAS	4	Crataegus basilica		5	[UPL]	Nt Tree	HAWTHORN
CRABEA	4	Crataegus beata		5	[UPL]	Nt Tree	HAWTHORN
CRABRA	4	Crataegus brainerdii		5	[UPL]	Nt Tree	HAWTHORN
CRABRU	4	Crataegus brumalis		5	[UPL]	Nt Tree	HAWTHORN
CRACAL	5	Crataegus calpodendron		5	[UPL]	Nt Tree	HAWTHORN
CRACHR	4	Crataegus chrysoarpa		5	[UPL]	Nt Tree	HAWTHORN
CRACOL	4	Crataegus coleae		5	[UPL]	Nt Tree	HAWTHORN
CRACOM	4	Crataegus compta		5	[UPL]	Nt Tree	HAWTHORN
CRACRU	5	Crataegus crus-galli		0	FAC	Nt Tree	COCKSPUR THORN
CRADIL	4	Crataegus dilatata		5	[UPL]	Nt Tree	HAWTHORN
CRADIS	4	Crataegus disperma		5	[UPL]	Nt Tree	HAWTHORN
CRADOD	4	Crataegus dodgei		5	[UPL]	Nt Tree	HAWTHORN
CRADOU	7	Crataegus douglasii	SC	0	FAC	Nt Tree	BLACK HAWTHORN
CRAFIL	4	Crataegus filipes		5	[UPL]	Nt Tree	HAWTHORN; THORNAPPLE
CRAFOE	4	Crataegus foetida		5	[UPL]	Nt Tree	HAWTHORN
CRAFON	4	Crataegus fontanesiana		5	[UPL]	Nt Tree	HAWTHORN
CRAGRA	4	Crataegus gravis		5	[UPL]	Nt Tree	HAWTHORN
CRAHIL	4	Crataegus hillii		5	[UPL]	Nt Tree	HAWTHORN
CRAHOL	4	Crataegus holmesiana		5	[UPL]	Nt Tree	HAWTHORN
CRAIMM	4	Crataegus immanis		5	[UPL]	Nt Tree	HAWTHORN
CRAINT	4	Crataegus intricata		5	[UPL]	Nt Tree	HAWTHORN
CRAIRA	4	Crataegus iracunda		5	[UPL]	Nt Tree	HAWTHORN
CRAIRR	6	Crataegus irrasa		5	[UPL]	Nt Tree	HAWTHORN
CRAJES	4	Crataegus jesupii		5	[UPL]	Nt Tree	HAWTHORN
CRALAE	*	CRATAEGUS LAEVIGATA		5	[UPL]	Ad Tree	ENGLISH HAWTHORN
CRALEI	4	Crataegus leiophylla		5	[UPL]	Nt Tree	HAWTHORN
CRALEV	4	Crataegus levis		5	[UPL]	Nt Tree	HAWTHORN
CRALUC	4	Crataegus lucorum		5	[UPL]	Nt Tree	HAWTHORN
CRAMAC	5	Crataegus macrosperma		5	[UPL]	Nt Tree	HAWTHORN
CRAMAR	5	Crataegus margaretta		5	[UPL]	Nt Tree	HAWTHORN
CRAMER	4	Crataegus merita		5	[UPL]	Nt Tree	HAWTHORN
CRAMOL	2	Crataegus mollis		-2	FACW-	Nt Tree	HAWTHORN
CRAMON	*	CRATAEGUS MONOGYNA		5	[UPL]	Ad Tree	ENGLISH HAWTHORN
CRANIT	4	Crataegus nitidula		5	[UPL]	Nt Tree	HAWTHORN
CRAPED	4	Crataegus pedicellata		5	[UPL]	Nt Tree	HAWTHORN
CRAPHA	*	CRATAEGUS PHAENOPYRUM		0	FAC	Ad Tree	WASHINGTON THORN
CRAPIN	4	Crataegus pinguis		5	[UPL]	Nt Tree	HAWTHORN
CRAPOP	4	Crataegus populnea		5	[UPL]	Nt Tree	HAWTHORN
CRAPRI	4	Crataegus pringlei		5	[UPL]	Nt Tree	HAWTHORN

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CRAPRU	6	<i>Crataegus pruinosa</i>		5	[UPL]	Nt Tree	HAWTHORN
CRAPUN	1	<i>Crataegus punctata</i>		5	[UPL]	Nt Tree	DOTTED HAWTHORN
CRARUG	4	<i>Crataegus rugosa</i>		5	[UPL]	Nt Tree	HAWTHORN
CRASUB	4	<i>Crataegus submollis</i>		5	[UPL]	Nt Tree	HAWTHORN
CRASUC	5	<i>Crataegus succulenta</i>		5	[UPL]	Nt Tree	HAWTHORN
CRECAP	*	<i>CREPIS CAPILLARIS</i>		5	[UPL]	Ad A-Forb	HAWK'S BEARD
CRETEC	*	<i>CREPIS TECTORUM</i>		5	[UPL]	Ad A-Forb	HAWK'S BEARD
CROSAG	*	<i>CROTALARIA SAGITTALIS</i>		5	[UPL]	Ad A-Forb	RATTLEBOX
CROGLA	*	<i>CROTON GLANDULOSUS</i>		5	[UPL]	Ad A-Forb	TOOTH-LEAVED CROTON
CROMON	*	<i>CROTON MONANTHOGYNUS</i>		5	[UPL]	Ad A-Forb	PRAIRIE-TEA
CRYSCH	*	<i>CRYPISIS SCHOENOIDES</i>		3	FACU	Ad A-Grass	FALSE-TIMOTHY
CRYACR	10	<i>Cryptogramma acrostichoides</i>	E	5	[UPL]	Nt Fern	AMERICAN ROCK-BRAKE
CRYTE	10	<i>Cryptogramma stelleri</i>	SC	3	FACU	Nt Fern	SLENDER ROCK-BRAKE
CRYCAN	2	<i>Cryptotaenia canadensis</i>		0	FAC	Nt P-Forb	HONEWORT
CUCMEL	*	<i>CUCUMIS MELO</i>		5	[UPL]	Ad A-Forb	MELON
CUCSAT	*	<i>CUCUMIS SATIVUS</i>		5	[UPL]	Ad A-Forb	CUCUMBER
CUCFOE	*	<i>CUCURBITA FOETIDISSIMA</i>		3	[FACU]	Ad P-Forb	MISSOURI GOURD
CUCMAX	*	<i>CUCURBITA MAXIMA</i>		4	[FACU-]	Ad A-Forb	SQUASH
CUCPEP	*	<i>CUCURBITA PEPO</i>		4	[FACU-]	Ad A-Forb	PUMPKIN
CUSCAM	10	<i>Cuscuta campestris</i>	SC	5	[UPL]	Nt A-Forb	FIELD DODDER
CUSCEP	6	<i>Cuscuta cephalanthi</i>		5	[UPL]	Nt A-Forb	BUTTONBUSH DODDER
CUSCOR	8	<i>Cuscuta coryli</i>		5	[UPL]	Nt A-Forb	HAZEL DODDER
CUSEPL	*	<i>CUSCUTA EPILINUM</i>		5	[UPL]	Ad A-Forb	FLAX DODDER
CUSEPT	*	<i>CUSCUTA EPITHYMUM</i>		5	[UPL]	Ad A-Forb	CLOVER DODDER
CUSGLO	10	<i>Cuscuta glomerata</i>	SC	0	[FAC]	Nt A-Forb	ROPE DODDER
CUSGRO	3	<i>Cuscuta gronovii</i>		-3	[FACW]	Nt A-Forb	COMMON DODDER
CUSIND	10	<i>Cuscuta indecora</i>	SC	0	[FAC]	Nt A-Forb	DODDER
CUSPEN	10	<i>Cuscuta pentagona</i>	SC	5	[UPL]	Nt A-Forb	FIVE-CORNERED DODDER
CUSPOL	9	<i>Cuscuta polygonorum</i>	SC	5	[UPL]	Nt A-Forb	KNOTWEED DODDER
CYCATR	*	<i>CYCLOLOMA ATRIPLICIFOLIUM</i>		3	FACU	Ad A-Forb	WINGED PIGWEED
CYMMUR	*	<i>CYMBALARIA MURALIS</i>		5	[UPL]	Ad P-Forb	KENILWORTH IVY
CYNDAC	*	<i>CYNODON DACTYLON</i>		3	FACU	Ad P-Grass	BERMUDA GRASS
CYNBOR	7	<i>Cynoglossum boreale</i>		5	[UPL]	Nt P-Forb	WILD COMFREY
CYNOFF	*	<i>CYNOGLOSSUM OFFICINALE</i>		5	[UPL]	Ad B-Forb	HOUND'S TONGUE
CYNCRI	*	<i>CYNOSURUS CRISTATUS</i>		0	FAC	Ad P-Grass	DOGTAIL
CYNECH	*	<i>CYNOSURUS ECHINATUS</i>		5	[UPL]	Ad A-Grass	DOGTAIL
CYPACU	6	<i>Cyperus acuminatus</i>	X	-5	OBL	Nt A-Sedge	UMBRELLA SEDGE
CYPDIA	5	<i>Cyperus diandrus</i>		-4	FACW+	Nt A-Sedge	UMBRELLA SEDGE
CYPENG	4	<i>Cyperus engelmannii</i>		-5	OBL	Nt A-Sedge	UMBRELLA SEDGE
CYPERY	6	<i>Cyperus erythrorhizos</i>		-5	OBL	Nt A-Sedge	UMBRELLA SEDGE
CYPESC	1	<i>Cyperus esculentus</i>		-3	FACW	Nt P-Sedge	FIELD NUT SEDGE
CYPFIL	2	<i>Cyperus filiculmis</i>		4	FACU-	Nt P-Sedge	SLENDER SAND SEDGE
CYPFLA	5	<i>Cyperus flavescens</i>	SC	-5	OBL	Nt A-Sedge	YELLOW FLAT SEDGE
CYPHOU	5	<i>Cyperus houghtonii</i>		5	[UPL]	Nt P-Sedge	SMOOTH SAND SEDGE
CYPODO	3	<i>Cyperus odoratus</i>		-3	FACW	Nt A-Sedge	UMBRELLA SEDGE
CYPRIV	3	<i>Cyperus rivularis</i>		-4	FACW+	Nt A-Sedge	BROOK NUT SEDGE
CYPSCH	5	<i>Cyperus schweinitzii</i>		2	FACU+	Nt P-Sedge	ROUGH SAND SEDGE
CYPSQU	5	<i>Cyperus squarrosus (C. aristatus)</i>		-5	[OBL]	Nt A-Sedge	UMBRELLA SEDGE
CYPSTR	3	<i>Cyperus strigosus</i>		-3	FACW	Nt P-Sedge	LONG SCALED NUT SEDGE
CYPACA	5	<i>Cypridium acaule</i>		-3	FACW	Nt P-Forb	PINK LADY'S-SLIPPER; MOCCASIN FLOWER

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
CYPARI	10	Cypripedium arietinum	SC	-4	FACW+	Nt P-Forb	RAMS HEAD LADY'S-SLIPPER
CYCAPA	7	Cypripedium calceolus var. parviflorum		-1	FAC+	Nt P-Forb	SMALL YELLOW LADY'S-SLIPPER
CYCAPU	5	Cypripedium calceolus var. pubescens		-1	FAC+	Nt P-Forb	LARGE YELLOW LADY'S-SLIPPER
CYPCAN	10	Cypripedium candidum	T	-5	OBL	Nt P-Forb	WHITE LADY'S-SLIPPER
CYPREG	9	Cypripedium reginae		-4	FACW+	Nt P-Forb	SHOWY or QUEEN'S LADY-SLIPPER
CYSBUL	5	Cystopteris bulbifera		-2	FACW-	Nt Fern	BULBLET FERN
CYSFRA	4	Cystopteris fragilis		3	FACU	Nt Fern	FRAGILE FERN
CYSLAU	9	Cystopteris laurentiana	SC	5	[UPL]	Nt Fern	LAURENTIAN FRAGILE FERN
CYSPRO	5	Cystopteris protrusa		5	[UPL]	Nt Fern	FRAGILE FERN
CYSTEN	5	Cystopteris tenuis		5	[UPL]	Nt Fern	FRAGILE FERN
CYTSCO	*	CYTISUS SCOPARIUS		5	[UPL]	Ad P-Forb	SCOTCH BROOM
DACGLO	*	DACTYLIS GLOMERATA		3	FACU	Ad P-Grass	ORCHARD GRASS
DALLEP	*	DALEA LEPORINA (D. ALOPECUROIDES)		5	UPL	Ad A-Forb	PRAIRIE-CLOVER
DALPUR	10	Dalea purpurea (Petalostemum p.)	X	5	[UPL]	Nt P-Forb	PURPLE PRAIRIE-CLOVER
DALREP	10	Dalibarda repens	T	4	FACU-	Nt P-Forb	FALSE VIOLET; DEWDROP
DANCOM	7	Danthonia compressa	SC	5	[UPL]	Nt P-Grass	FLAT OATGRASS
DANINT	8	Danthonia intermedia	SC	0	FAC	Nt P-Grass	OATGRASS
DANSPI	4	Danthonia spicata		5	[UPL]	Nt P-Grass	POVERTY GRASS; OATGRASS
		* DAPHNE MEZEREUM		1	[FAC-]	Ad Shrub	PARADISE PLANT
DASMAC	10	Dasistoma macrophylla (Dasystema m., Seymeria m.)	T	5	[UPL]	Nt A-Forb	MULLEIN FOXGLOVE
DATINO	*	DATURA INOXIA		5	[UPL]	Ad P-Forb	INDIAN APPLE
DATSTR	*	DATURA STRAMONIUM		5	[UPL]	Ad A-Forb	JIMSON-WEED
DAUCAR	*	DAUCUS CAROTA		5	[UPL]	Ad B-Forb	QUEEN-ANNES-LACE
DECVER	7	Decodon verticillatus		-5	OBL	Nt Shrub	WHORLED or SWAMP LOOSESTRIFE
DELELA	*	DELPHINIUM ELATUM		5	[UPL]	Ad P-Forb	LARKSPUR
DENPUN	3	Dennstaedtia punctilobula	X	5	[UPL]	Nt Fern	HAY-SCENTED FERN
DENDIP	5	Dentaria diphylla (Cardamine d.)		5	[UPL]	Nt P-Forb	TWO-LEAVED TOOTHWORT
DENLAC	5	Dentaria laciniata		3	[FACU]	Nt P-Forb	CUT-LEAVED TOOTHWORT
DENMAX	10	Dentaria maxima	T	5	[UPL]	Nt P-Forb	LARGE TOOTHWORT
DESCES	9	Deschampsia cespitosa		-4	FACW+	Nt P-Grass	HAIR GRASS
DEFLE	6	Deschampsia flexuosa		5	[UPL]	Nt P-Grass	HAIR GRASS
DESPIN	*	DESCURAINIA PINNATA		5	[UPL]	Ad A-Forb	TANSY MUSTARD
DESSOP	*	DESCURAINIA SOPHIA		5	[UPL]	Ad A-Forb	FLIXWEED
DESCAD	3	Desmodium canadense		1	FAC-	Nt P-Forb	SHOWY TICK-TREFOIL
DESCAS	5	Desmodium canescens		5	[UPL]	Nt P-Forb	HOARY TICK-TREFOIL
DESCIL	10	Desmodium ciliare		5	[UPL]	Nt P-Forb	HAIRY TICK-TREFOIL
DESCUS	5	Desmodium cuspidatum		5	[UPL]	Nt P-Forb	SMOOTH-BRACTED TICK-TREFOIL
DESGLU	5	Desmodium glutinosum		5	[UPL]	Nt P-Forb	CLUSTERED-LEAVED TICK-TREFOIL
DESILL	6	Desmodium illinoense		5	[UPL]	Nt P-Forb	PRAIRIE TICK-TREFOIL
DESMAR	7	Desmodium marilandicum		5	[UPL]	Nt P-Forb	SMALL-LEAVED TICK TREFOIL
DESNUD	7	Desmodium nudiflorum		5	[UPL]	Nt P-Forb	NAKED TICK-TREFOIL
DESOBT	9	Desmodium obtusum (D. rigidum)		5	[UPL]	Nt P-Forb	STIFF TICK-TREFOIL
DESPAN	4	Desmodium paniculatum		3	FACU	Nt P-Forb	PANICLED TICK-TREFOIL
DESBOT	8	Desmodium rotundifolium		5	[UPL]	Nt P-Forb	ROUND-LEAVED TICK-TREFOIL
DESSSES	8	Desmodium sessilifolium		5	[UPL]	Nt P-Forb	SESSILE-LEAVED TICK-TREFOIL
DIAARM	*	DIANTHUS ARMERIA		5	[UPL]	Ad A-Forb	DEPTFORD PINK
DIABAR	*	DIANTHUS BARBATUS		5	[UPL]	Ad P-Forb	SWEET WILLIAM
DIACAR	*	DIANTHUS CARTHUSIANORUM		5	[UPL]	Ad P-Forb	CLUSTER-HEAD PINK
DIADEL	*	DIANTHUS DELTOIDES		5	[UPL]	Ad P-Forb	MAIDEN PINK

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
DIAPLU	*	DIANTHUS PLUMARIUS		5	[UPL]	Ad P-Forb	GARDEN or GRASS PINK
DIASYL	*	DIANTHUS SYLVESTRIS		5	[UPL]	Ad P-Forb	PINK
DIAOBO	9	Diarrhena obovata (D. americana)	T	-3	[FACW]	Nt P-Grass	BEAK GRASS
DICCAN	7	Dicentra canadensis		5	[UPL]	Nt P-Forb	SQUIRREL CORN
DICCUC	7	Dicentra cucullaria		5	[UPL]	Nt P-Forb	DUTCHMAN'S BREECHES
DICEXI	*	DICENTRA EXIMIA		5	[UPL]	Ad P-Forb	WILD BLEEDING-HEART
DICALB	*	DICTAMNUS ALBUS		5	[UPL]	Ad P-Forb	GAS-PLANT
DIELON	4	Diervilla lonicera		5	[UPL]	Nt Shrub	BUSH HONEYSUCKLE
DIGGRA	*	DIGITALIS GRANDIFLORA		5	[UPL]	Ad P-Forb	YELLOW FOXGLOVE
DIGLAN	*	DIGITALIS LANATA		5	[UPL]	Ad P-Forb	GRECIAN FOXGLOVE
DIGLUT	*	DIGITALIS LUTEA		5	[UPL]	Ad P-Forb	YELLOW FOXGLOVE
DIGPUR	*	DIGITALIS PURPUREA		4	[FACU-]	Ad B-Forb	COMMON FOXGLOVE
DIGFIL	10	Digitaria filiformis	X	5	[UPL]	Nt A-Grass	SLENDER CRAB GRASS
DIGISC	*	DIGITARIA ISCHAEMUM		3	FACU	Ad A-Grass	SMOOTH CRAB GRASS
DIGSAN	*	DIGITARIA SANGUINALIS		3	FACU	Ad A-Grass	HAIRY CRAB GRASS
DIOTER	*	DIODIA TERES		3	[FACU]	Ad A-Forb	BUTTONWEED
DIOVIL	4	Dioscorea villosa		1	[FAC-]	Nt P-Forb	WILD YAM
DIPCOM	5	Diphasiastrum complanatum (Lycopodium c.)		2	[FACU+]	Nt Fern Ally	GROUND-CEDAR
DIPDIG	3	Diphasiastrum digitatum (Lycopodium d.)		5	[UPL]	Nt Fern Ally	GROUND-CEDAR
DIPTRI	7	Diphasiastrum tristachyum (Lycopodium t.)		5	[UPL]	Nt Fern Ally	GROUND-CEDAR
DIPSAB	10	Diphasiastrum Xsabinifolium (Lycopodium sabinifolium)		5	[UPL]	Nt Fern Ally	SAVIN-LEAVED CLUBMOSS
DIPMUR	*	DIPLLOTAXIS MURALIS		5	[UPL]	Ad A-Forb	WALL ROCKET
DIPTEN	*	DIPLLOTAXIS TENUIFOLIA		5	[UPL]	Ad P-Forb	SAND ROCKET
DIPFUL	*	DIPSACUS FULLONUM		5	[UPL]	Ad P-Forb	COMMON TEASEL
DIPLAC	*	DIPSACUS LACINIATUS		5	[UPL]	Ad B-Forb	CUT-LEAVED TEASEL
DIRPAL	8	Dirca palustris		0	FAC	Nt Shrub	LEATHERWOOD
DODMEA	10	Dodecatheon meadia	E	3	FACU	Nt P-Forb	SHOOTING STAR
DRAARA	10	Draba arabisans	SC	5	[UPL]	Nt P-Forb	ROCK WHITLOW-GRASS
DRACAN	10	Draba cana	T	5	[UPL]	Nt P-Forb	ASHY WHITLOW-GRASS
DRAGLA	10	Draba glabella	E	5	[UPL]	Nt P-Forb	SMOOTH WHITLOW-GRASS
DRAINC	10	Draba incana	T	5	[UPL]	Nt B-Forb	TWISTED WHITLOW-GRASS
DRANEM	10	Draba nemorosa	X	5	[UPL]	Nt A-Forb	WHITLOW-GRASS
DRAREP	8	Draba reptans	T	5	[UPL]	Nt A-Forb	COMMON WHITLOW-GRASS
DRAPAR	*	DRACOCEPHALUM PARVIFLORUM		3	FACU	Ad B-Forb	AMERICAN DRAGONHEAD
DRATHY	*	DRACOCEPHALUM THYMIFLORUM		5	[UPL]	Ad P-Forb	THYME-LEAVED DRAGONHEAD
DROINT	8	Drosera intermedia		-5	OBL	Nt P-Forb	SUNDEW
DROLIN	10	Drosera linearis		-5	OBL	Nt P-Forb	LINEAR-LEAVED SUNDEW
DROROT	6	Drosera rotundifolia		-5	OBL	Nt P-Forb	ROUND-LEAVED SUNDEW
DROANG	10	Drosera Xanglica	SC	-5	[OBL]	Nt P-Forb	ENGLISH SUNDEW
DRYCAR	5	Dryopteris carthusiana (D. spinulosa)		-2	[FACW-]	Nt Fern	SPINULOSE WOODFERN
DRYCEL	10	Dryopteris celsa	T	-5	OBL	Nt Fern	LOG FERN
DRYCLI	8	Dryopteris clintoniana		-4	FACW+	Nt Fern	CLINTON'S WOODFERN
DRYCRI	6	Dryopteris cristata		-5	OBL	Nt Fern	CRESTED SHIELD FERN
DRYEXP	9	Dryopteris expansa (D. assimilis)		5	[UPL]	Nt Fern	EXPANDED WOODFERN
DRYFIL	10	Dryopteris filix-mas	SC	5	[UPL]	Nt Fern	MALE FERN
DRYFRA	10	Dryopteris fragrans	SC	5	[UPL]	Nt Fern	FRAGRANT WOODFERN
DRYGOL	10	Dryopteris goldiana		0	FAC	Nt Fern	GOLDIE'S WOODFERN
DRYINT	5	Dryopteris intermedia		0	FAC	Nt Fern	EVERGREEN WOODFERN

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
DRYMAR	5	Dryopteris marginalis		3	FACU	Nt Fern	MARGINAL WOODFERN
DUCIND	*	DUCHESNEA INDICA		4	FACU-	Ad P-Forb	INDIAN STRAWBERRY
DULARU	8	Dulichium arundinaceum		-5	OBL	Nt P-Sedge	THREE-WAY SEDGE
DYSPAP	*	DYSSODIA PAPPOSA		5	[UPL]	Ad A-Forb	STINKING MARIGOLD
ECHPAL	*	ECHINACEA PALLIDA		5	[UPL]	Ad P-Forb	PALE CONEFLOWER
ECHPUA	*	ECHINACEA PURPUREA		5	[UPL]	Ad P-Forb	PURPLE CONEFLOWER
ECHPUN	10	Echinacea purpurea	X	5	[UPL]	Nt P-Forb	PURPLE CONEFLOWER
ECHCRU	*	ECHINOCHLOA CRUSGALLI		-3	FACW	Ad A-Grass	BARNYARD GRASS
ECHMUR	1	Echinochloa muricata		-5	OBL	Nt A-Grass	BARNYARD GRASS
ECHWAL	7	Echinochloa walteri		-5	OBL	Nt A-Grass	SALT-MARSH COCKSPUR GRASS
ECHLOB	2	Echinocystis lobata		-2	FACW-	Nt A-Forb	WILD CUCUMBER
ECHTEN	10	Echinodorus tenellus (E. parvulus)	E	-5	OBL	Nt P-Forb	DWARF BURHEAD
ECHSPH	*	ECHINOPS SPHAEROCEPHALUS		5	[UPL]	Ad P-Forb	GLOBE THISTLE
ECHVUL	*	ECHIUM VULGARE		5	[UPL]	Ad B-Forb	VIPER'S BUGLOSS
ECLPRO	4	Eclipta prostrata		-5	[OBL]	Nt A-Forb	YERBA-DE-TAJO
ELAANG	*	ELAEAGNUS ANGUSTIFOLIA		4	FACU-	Ad Tree	RUSSIAN-OLIVE
ELAUMB	*	ELAEAGNUS UMBELLATA		3	[FACU]	Ad Shrub	AUTUMN-OLIVE
ELAMIN	10	Elatine minima		-5	OBL	Nt A-Forb	WATERWORT
ELEACI	7	Eleocharis acicularis		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELEATR	9	Eleocharis atropurpurea	E	-5	[OBL]	Nt A-Sedge	PURPLE SPIKE-RUSH
ELECAR	9	Eleocharis caribaea	T	-3	FACW	Nt A-Sedge	SPIKE-RUSH
ELECOM	9	Eleocharis compressa	T	-3	FACW	Nt P-Sedge	FLATTENED SPIKE RUSH
ELEELL	6	Eleocharis elliptica		-3	[FACW]	Nt P-Sedge	GOLDEN-SEEDED SPIKE RUSH
ELEENG	8	Eleocharis engelmannii	SC	-3	FACW	Nt A-Sedge	ENGELMANN'S SPIKE-RUSH
ELEEQU	9	Eleocharis equisetoides	SC	-5	OBL	Nt P-Sedge	HORSETAIL SPIKE RUSH
ELEERY	4	Eleocharis erythropoda		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELEINT	7	Eleocharis intermedia		-3	FACW	Nt A-Sedge	SPIKE-RUSH
ELEMEL	9	Eleocharis melanocarpa	SC	-4	FACW+	Nt P-Sedge	BLACK-FRUITED SPIKE-RUSH
ELEMIC	10	Eleocharis microcarpa	E	-5	OBL	Nt A-Sedge	SMALL-FRUITED SPIKE-RUSH
ELENIT	10	Eleocharis nitida	E	-5	[OBL]	Nt P-Sedge	SLENDER SPIKE-RUSH
ELEOBT	3	Eleocharis obtusa		-5	OBL	Nt A-Sedge	SPIKE-RUSH
ELEOLI	7	Eleocharis olivacea		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELEOVA	8	Eleocharis ovata		-5	OBL	Nt A-Sedge	SPIKE-RUSH
ELEPAR	10	Eleocharis parvula	T	-5	OBL	Nt P-Sedge	DWARF SPIKE-RUSH
ELEQUA	8	Eleocharis quadrangulata		-5	OBL	Nt P-Sedge	FOUR-SIDED SPIKE-RUSH
ELEQUI	10	Eleocharis quinqueflora (E. pauciflora)		-5	[OBL]	Nt P-Sedge	SPIKE-RUSH
ELERAD	10	Eleocharis radicans	X	-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELEROB	8	Eleocharis robbinsii		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELEROS	10	Eleocharis rostellata		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELESMA	5	Eleocharis smallii		-5	OBL	Nt P-Sedge	SPIKE-RUSH
ELETRI	10	Eleocharis tricostata	T	-5	OBL	Nt P-Sedge	THREE-RIBBED SPIKE-RUSH
ELEIND	*	ELEUSINE INDICA		3	FACU	Ad A-Grass	GOOSE GRASS
ELLYNYC	*	ELLISIA NYCTELEA		-1	[FAC+]	Ad A-Forb	AUNT LUCY
ELOCAN	1	Elodea canadensis		-5	OBL	Nt P-Forb	COMMON WATERWEED
ELONUT	5	Elodea nuttallii		-5	OBL	Nt P-Forb	SLENDER WATERWEED
ELYARE	*	ELYMUS ARENARIUS		3	FACU	Ad P-Grass	LYME GRASS
ELYCAN	7	Elymus canadensis		1	FAC-	Nt P-Grass	CANADA WILD-RYE
ELYGLA	8	Elymus glaucus	SC	3	FACU	Nt P-Grass	BLUE WILD-RYE
ELYMOL	10	Elymus mollis (Leymus m.)	SC	5	[UPL]	Nt P-Grass	AMERICAN DUNE WILD-RYE
ELYRAC	*	ELYMUS RACEMOSUS		5	[UPL]	Ad P-Grass	RYE GRASS

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ELYRIP	8	<i>Elymus riparius</i>		-3	FACW	Nt P-Grass	RIVERBANK WILD-RYE
ELYVIL	5	<i>Elymus villosus</i>		3	FACU	Nt P-Grass	SILKY WILD-RYE
ELYVIR	4	<i>Elymus virginicus</i>		-2	FACW-	Nt P-Grass	VIRGINIA WILD-RYE
ELYWIE	8	<i>Elymus wiegandii</i>		0	FAC	Nt P-Grass	WILD-RYE
EMPNIG	10	<i>Empetrum nigrum</i>	T	-2	FACW-	Nt Shrub	BLACK CROWBERRY
EPIVIR	10	<i>Epifagus virginiana</i>		5	[UPL]	Nt P-Forb	BEECH DROPS
EPIREP	7	<i>Epigaea repens</i>		5	[UPL]	Nt Shrub	TRAILING ARBUTUS
EPIANG	3	<i>Epilobium angustifolium</i>		0	FAC	Nt P-Forb	FIREWEED
EPICIL	3	<i>Epilobium ciliatum</i>		3	FACU	Nt P-Forb	WILLOW-HERB
EPICOL	3	<i>Epilobium coloratum</i>		-5	OBL	Nt P-Forb	CINNAMON WILLOW-HERB
EPIHIR	*	EPILOBIUM HIRSUTUM		-4	[FACW+]	Ad P-Forb	GREAT HAIRY WILLOW-HERB
EPILEP	6	<i>Epilobium leptophyllum</i>		-5	OBL	Nt P-Forb	FEN WILLOW-HERB
EPIPAL	10	<i>Epilobium palustre</i>		-5	OBL	Nt P-Forb	MARSH WILLOW-HERB
EPIPAR	*	EPILOBIUM PARVIFLORUM		3	[FACU]	Ad P-Forb	WILLOW-HERB
EPISTR	8	<i>Epilobium strictum</i>		-5	OBL	Nt P-Forb	DOWNY WILLOW-HERB
EPIHEL	*	EPIPACTIS HELLEBORINE		5	[UPL]	Ad P-Forb	HELLEBORINE
EQUARV	0	<i>Equisetum arvense</i>		0	FAC	Nt Fern Ally	COMMON HORSETAIL
EQUFLU	7	<i>Equisetum fluviatile</i>		-5	OBL	Nt Fern Ally	WATER HORSETAIL
EQUHYE	2	<i>Equisetum hyemale</i>		-2	FACW-	Nt Fern Ally	SCOURING RUSH
EQLAE	2	<i>Equisetum laevigatum</i>		-3	FACW	Nt Fern Ally	SMOOTH SCOURING RUSH
EQPAL	10	<i>Equisetum palustre</i>		-3	FACW	Nt Fern Ally	MARSH-HORSETAIL
EQPRA	10	<i>Equisetum pratense</i>		-3	FACW	Nt Fern Ally	MEADOW-HORSETAIL
EQUSCI	7	<i>Equisetum scirpoides</i>		-1	FAC+	Nt Fern Ally	DWARF SCOURING RUSH
EQUSYL	5	<i>Equisetum sylvaticum</i>		-3	FACW	Nt Fern Ally	WOODLAND HORSETAIL
EQUTEL	10	<i>Equisetum telmateia</i>	X	-5	OBL	Nt Fern Ally	GIANT HORSETAIL
EQUVAR	8	<i>Equisetum variegatum</i>		-3	FACW	Nt Fern Ally	VARIEGATED SCOURING RUSH
ERACAP	4	<i>Eragrostis capillaris</i>	SC	5	[UPL]	Nt A-Grass	LACE GRASS
ERACIL	*	ERAGROSTIS CILIANENSIS		3	FACU	Ad A-Grass	STINK GRASS
ERAFRA	4	<i>Eragrostis frankii</i>		-3	FACW	Nt A-Grass	SANDBAR LOVE GRASS
ERAHYP	8	<i>Eragrostis hypnoides</i>		-5	OBL	Nt A-Grass	CREEPING LOVE GRASS
ERAMIN	*	ERAGROSTIS MINOR		5	[UPL]	Ad A-Grass	LOW LOVE GRASS
ERAPEC	0	<i>Eragrostis pectinacea</i>		0	FAC	Nt A-Grass	LOVE GRASS
ERAPIL	4	<i>Eragrostis pilosa</i>	SC	3	FACU	Nt A-Grass	SMALL LOVE GRASS
ERASPE	3	<i>Eragrostis spectabilis</i>		5	[UPL]	Nt P-Grass	PURPLE LOVE GRASS
ERATEP	*	ERAGROSTIS TEPHROSANTHOS		-5	[OBL]	Ad A-Grass	LOVE GRASS
ERATRI	*	ERAGROSTIS TRICHODES		5	[UPL]	Ad P-Grass	LARGE PURPLE LOVE GRASS
EREHIE	2	<i>Erechtites hieraciifolia</i>		3	FACU	Nt A-Forb	FIREWEED
ERIRAV	*	ERIANTHUS RAVENNAE		5	[UPL]	Ad P-Grass	PLUME GRASS
ERIBUL	10	<i>Eriogenia bulbosa</i>		5	[UPL]	Nt P-Forb	HARBINGER-OF-SPRING
ERIACR	9	<i>Erigeron acris</i>	SC	0	FAC	Nt P-Forb	FLEABANE
ERIANN	0	<i>Erigeron annuus</i>		1	FAC-	Nt B-Forb	ANNUAL FLEABANE
ERIFLA	*	ERIGERON FLAGELLARIS		5	[UPL]	Ad B-Forb	DAISY FLEABANE
ERIHYS	10	<i>Erigeron hyssopifolius</i>	T	-3	FACW	Nt P-Forb	HYSSOP-LEAVED FLEABANE
ERIPHI	2	<i>Erigeron philadelphicus</i>		-3	FACW	Nt P-Forb	MARSH FLEABANE
ERIPUL	5	<i>Erigeron pulchellus</i>		3	FACU	Nt P-Forb	ROBIN'S PLANTAIN
ERISTR	4	<i>Erigeron strigosus</i>		1	FAC-	Nt P-Forb	DAISY FLEABANE
ERISEP	9	<i>Eriocaulon septangulare</i>		-5	OBL	Nt P-Forb	PIPEWORT
ERiang	10	<i>Eriophorum angustifolium</i>		-5	OBL	Nt P-Sedge	NARROW-LEAVED COTTON-GRASS
ERIGRA	10	<i>Eriophorum gracile</i>		-5	OBL	Nt P-Sedge	SLENDER COTTON-GRASS
ERISPI	10	<i>Eriophorum spissum</i>		-5	OBL	Nt P-Sedge	COTTON-GRASS

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ERITEN	10	Eriophorum tenellum		-5	OBL	Nt P-Sedge	COTTON-GRASS
ERIVIG	8	Eriophorum virginicum		-5	OBL	Nt P-Sedge	TAWNY COTTON-GRASS
ERIVID	8	Eriophorum viridi-carinatum		-5	OBL	Nt P-Sedge	GREEN-KEELED COTTON-GRASS
EROCIC	*	ERODIUM CICUTARIUM		5	[UPL]	Ad B-Forb	STORKSBILL; ALFILERIA
EROVER	*	EROPHILA VERNA		5	[UPL]	Ad A-Forb	WHITLOW-GRASS
ERUVES	*	ERUCA VESICARIA		5	[UPL]	Ad A-Forb	ROCKET SALAD; GARDEN SALAD
ERUGAL	*	ERUCASTRUM GALLICUM		5	[UPL]	Ad A-Forb	DOG MUSTARD
ERYPLA	*	ERYNGIUM PLANUM		5	[UPL]	Ad P-Forb	ERYNGO
ERYYUC	10	Eryngium yuccifolium	T	-1	FAC+	Nt P-Forb	RATTLESNAKE-MASTER
ERYCAP	*	ERYSIMUM CAPITATUM		5	[UPL]	Ad B-Forb	WESTERN WALLFLOWER
ERYCHE	*	ERYSIMUM CHEIRANTHOIDES		3	FACU	Ad A-Forb	WORMSEED MUSTARD
ERYHIE	*	ERYSIMUM HIERACIIFOLIUM		5	[UPL]	Ad P-Forb	TALL WORMSEED MUSTARD
ERYINC	*	ERYSIMUM INCONSPICUUM		5	[UPL]	Ad P-Forb	SMALL WORMSEED MUSTARD
ERYREP	*	ERYSIMUM REPANDUM		5	[UPL]	Ad A-Forb	TREACLE MUSTARD
ERYALB	7	Erythronium albidum		5	[UPL]	Nt P-Forb	WHITE TROUT LILY
ERYAME	5	Erythronium americanum		5	[UPL]	Nt P-Forb	YELLOW TROUT LILY
ESCCAL	*	ESCHSCHOLZIA CALIFORNICA		5	[UPL]	Ad A-Forb	CALIFORNIA POPPY
EUOALA	*	EUONYMUS ALATA		5	[UPL]	Ad Shrub	WINGED WAHOO
EUOATR	8	Euonymus atropurpurea	SC	1	FAC-	Nt Shrub	WAHOO; BURNING-BUSH
EUOEUR	*	EUONYMUS EUROPAEA		5	[UPL]	Ad Shrub	SPINDLE TREE
EUOFOR	*	EUONYMUS FORTUNEI		5	[UPL]	Ad W-Vine	WINTERCREEPER
EUOHAM	*	EUONYMUS HAMILTONIANA		5	[UPL]	Ad Shrub	JAPANESE SPINDLE TREE
EUOOBO	5	Euonymus obovata		5	[UPL]	Nt Shrub	RUNNING STRAWBERRY BUSH
EUPALT	0	Eupatorium altissimum		3	[FACU]	Nt P-Forb	TALL BONESET
EUPCOE	*	EUPATORIUM COELESTINUM		-1	[FAC+]	Ad P-Forb	MISTFLOWER
EUPFIS	10	Eupatorium fistulosum	T	-5	[OBL]	Nt P-Forb	HOLLOW JOE-PYE WEED
EUPMAM	4	Eupatorium maculatum		-5	[OBL]	Nt P-Forb	JOE-PYE WEED
EUPPER	4	Eupatorium perfoliatum		-4	FACW+	Nt P-Forb	COMMON BONESET
EUPPUR	5	Eupatorium purpureum		0	[FAC]	Nt P-Forb	PURPLE JOE-PYE WEED
EUPRUG	4	Eupatorium rugosum		3	[FACU]	Nt P-Forb	WHITE SNAKEROOT
EUPSEM	0	Eupatorium serotinum		-1	[FAC+]	Nt P-Forb	LATE BONESET
EUPSES	10	Eupatorium sessilifolium	T	5	[UPL]	Nt P-Forb	UPLAND BONESET
EUPCOM	8	Euphorbia commutata	T	5	[UPL]	Nt P-Forb	TINTED SPURGE
EUPCOR	4	Euphorbia corollata		5	[UPL]	Nt P-Forb	FLOWERING SPURGE
EUPCYP	*	EUPHORBIA CYPARISSIAS		5	[UPL]	Ad P-Forb	CYPRESS SPURGE
EUPDEN	*	EUPHORBIA DENTATA		5	[UPL]	Ad A-Forb	TOOTHED SPURGE
EUPESU	*	EUPHORBIA ESULA		5	[UPL]	Ad P-Forb	LEAFY SPURGE
EUPGEY	*	EUPHORBIA GEYERI		5	[UPL]	Ad A-Forb	DUNE SPURGE
EUPGLY	*	EUPHORBIA GLYPTOSPERMA		5	[UPL]	Ad A-Forb	RIDGE-SEEDED SPURGE
EUPHEL	*	EUPHORBIA HELIOSCOPIA		5	[UPL]	Ad A-Forb	SUN SPURGE
EUPHIR	*	EUPHORBIA HIRTA		5	[UPL]	Ad A-Forb	SPURGE
EUPMAA	0	Euphorbia maculata		4	FACU-	Nt A-Forb	NODDING SPURGE
EUPMAR	*	EUPHORBIA MARGINATA		4	FACU-	Ad A-Forb	SNOW-ON-THE-MOUNTAIN
EUPNUT	0	Euphorbia nutans		3	FACU	Nt A-Forb	EYEBANE
EUPOBT	5	Euphorbia obtusata		3	FACU	Nt A-Forb	BLUNT-LEAVED SPURGE
EUPPEP	*	EUPHORBIA PEPLUS		5	[UPL]	Ad A-Forb	PETTY SPURGE
EUPPLA	*	EUPHORBIA PLATYPHYLLA		5	[UPL]	Ad A-Forb	SPURGE
EUPPOL	10	Euphorbia polygonifolia		5	[UPL]	Nt A-Forb	SEASIDE SPURGE
EUPSEA	*	EUPHORBIA SERPYLLIFOLIA		5	[UPL]	Ad A-Forb	SPURGE
EUPVER	*	EUPHORBIA VERMICULATA		5	[UPL]	Ad A-Forb	HAIRY SPURGE

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
EUPHUD	8	Euphrasia hudsoniana	T	2	[FACU+]	Nt A-Forb	EYEBRIGHT
EUPNEM	8	Euphrasia nemorosa (E. arctica)	T	2	FACU+	Nt A-Forb	EYEBRIGHT
EUPSTR	*	EUPHRASIA STRICTA (E. OFFICINALIS)		-3	[FACW]	Ad A-Forb	EUROPEAN EYEBRIGHT
EUTGRA	3	Euthamia graminifolia (Solidago g.)		-2	FACW-	Nt P-Forb	GRASS-LEAVED GOLDENROD
EUTREM	10	Euthamia remota (Solidago r.)		-3	[FACW]	Nt P-Forb	LAKES FLAT-TOPPED GOLDENROD
FAGESC	*	FAGOPYRUM ESCULENTUM		5	[UPL]	Ad A-Forb	BUCKWHEAT
FAGGRA	6	Fagus grandifolia		3	FACU	Nt Tree	AMERICAN BEECH
FESARU	*	FESTUCA ARUNDINACEA		2	FACU+	Ad P-Grass	TALL FESCUE
FESGIG	*	FESTUCA GIGANTEA		0	[FAC]	Ad P-Grass	GIGANTIC FESCUE
FESMYU	*	FESTUCA MYUROS		5	[UPL]	Ad A-Grass	FESCUE
FESOCC	6	Festuca occidentalis		5	[UPL]	Nt P-Grass	WESTERN FESCUE
FESOCT	5	Festuca octoflora		4	[FACU-]	Nt A-Grass	SIX-WEEKS FESCUE
FESOVI	*	FESTUCA OVINA		5	[UPL]	Ad P-Grass	SHEEP FESCUE
FESPRA	*	FESTUCA PRATENSIS		4	FACU-	Ad P-Grass	MEADOW FESCUE
FESRUB	*	FESTUCA RUBRA		1	[FAC-]	Ad P-Grass	RED FESCUE
FESSAX	6	Festuca saximontana		5	[UPL]	Nt P-Grass	FESCUE
FESSCA	9	Festuca scabrella	T	5	[UPL]	Nt P-Grass	ROUGH FESCUE
FESSUB	5	Festuca subverticillata (F. obtusa)		2	FACU+	Nt P-Grass	NODDING FESCUE
FESTEN	*	FESTUCA TENUIFOLIA		5	[UPL]	Ad P-Grass	FESCUE
FILARV	*	FILAGO ARVENSIS		5	[UPL]	Ad A-Forb	FILAGO
FILRUB	10	Filipendula rubra	T	-4	FACW+	Nt P-Forb	QUEEN-OF-THE-PRAIRIE
FIMAUT	6	Fimbristylis autumnalis		-4	FACW+	Nt A-Sedge	AUTUMN SEDGE
FIMPUB	10	Fimbristylis puberula	X	-5	OBL	Nt P-Sedge	CHESTNUT SEDGE
FLOPRO	7	Floerkea proserpinacoides		-1	FAC+	Nt A-Forb	FALSE MERMAID
FOEVUL	*	FOENICULUM VULGARE		5	[UPL]	Ad P-Forb	FENNEL
FRAVES	2	Fragaria vesca		4	[FACU-]	Nt P-Forb	WOODLAND STRAWBERRY
FRAVIR	2	Fragaria virginiana		1	FAC-	Nt P-Forb	WILD STRAWBERRY
FRACAR	10	Frasera caroliniensis (Swertia c.)		5	[UPL]	Nt B-Forb	AMERICAN COLUMBO
FRAAME	5	Fraxinus americana		3	FACU	Nt Tree	WHITE ASH
FRANIG	6	Fraxinus nigra		-4	FACW+	Nt Tree	BLACK ASH
FRAPEN	2	Fraxinus pennsylvanica		-3	FACW	Nt Tree	RED ASH
FRAPRO	9	Fraxinus profunda	T	-5	[OBL]	Nt Tree	PUMPKIN ASH
FRAQUA	8	Fraxinus quadrangulata		5	[UPL]	Nt Tree	BLUE ASH
		* FROELICHIA FLORIDANA		5	[UPL]	Ad A-Forb	PLAINS SNAKECOTTON
FROGRA	*	FROELICHIA GRACILIS		5	[UPL]	Ad A-Forb	COTTONWEED
FUISQU	10	Fuirena squarrosa (F. pumila)	T	-5	OBL	Nt P-Sedge	UMBRELLA-GRASS
FUMOFF	*	FUMARIA OFFICINALIS		5	[UPL]	Ad A-Forb	FUMITORY
GAIARI	*	GAILLARDIA ARISTATA		5	[UPL]	Ad P-Forb	COMMON BLANKET-FLOWER
GAIPUL	*	GAILLARDIA PULCHELLA		5	[UPL]	Ad A-Forb	BLANKET-FLOWER
GALSPE	10	Galearis spectabilis (Orchis s.)	T	5	[UPL]	Nt P-Forb	SHOWY ORCHIS
		* GALEGA OFFICINALIS		5	[UPL]	Ad P-Forb	PROFESSOR-WEED
GALLAD	*	GALEOPSIS LADANUM		5	[UPL]	Ad A-Forb	RED HEMP NETTLE
GALTET	*	GALEOPSIS TETRAHIT		5	[UPL]	Ad A-Forb	COMMON HEMP NETTLE
GALPAR	*	GALINSOGA PARVIFLORA		5	[UPL]	Ad A-Forb	QUICKWEED
GALQUA	*	GALINSOGA QUADRIRADIATA		5	[UPL]	Ad A-Forb	QUICKWEED
GALAPA	0	Galium aparine		3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GALASP	5	Galium asprellum		-5	OBL	Nt P-Forb	ROUGH BEDSTRAW
GALBOR	3	Galium boreale		0	FAC	Nt P-Forb	NORTHERN BEDSTRAW
GALBRE	6	Galium brevipes		-5	[OBL]	Nt P-Forb	SHORT-STALKED BEDSTRAW
GALCIR	4	Galium circaezans		4	FACU-	Nt P-Forb	WHITE WILD LICORICE

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
GALCON	5	Galium concinnum		3	FACU	Nt P-Forb	SHINING BEDSTRAW
GALKAM	10	Galium kamtschaticum	T	4	[FACU-]	Nt P-Forb	WOODRUFF
GALLAB	8	Galium labradoricum		-5	OBL	Nt P-Forb	BOG BEDSTRAW
GALLAN	4	Galium lanceolatum		5	[UPL]	Nt P-Forb	YELLOW WILD LICORICE
GALMOL	*	GALIUM MOLLUGO		5	[UPL]	Ad P-Forb	WHITE BEDSTRAW
GALOBT	5	Galium obtusum		-5	[OBL]	Nt P-Forb	WILD MADDER
GALODO	*	GALIUM ODORATUM		5	[UPL]	Ad P-Forb	SWEET WOODRUFF
GALPAL	3	Galium palustre		-5	[OBL]	Nt P-Forb	MARSH BEDSTRAW
GALPIL	6	Galium pilosum		5	[UPL]	Nt P-Forb	HAIRY BEDSTRAW
GALSYL	*	GALIUM SYLVATICUM		5	[UPL]	Ad P-Forb	WOODRUFF
GALTIN	5	Galium tinctorium		-5	OBL	Nt P-Forb	STIFF BEDSTRAW
GALTRD	6	Galium trifidum		-4	FACW+	Nt P-Forb	SMALL BEDSTRAW
GALTRR	4	Galium triflorum		2	FACU+	Nt P-Forb	FRAGRANT BEDSTRAW
GALVEC	*	GALIUM VERRUCOSUM		5	[UPL]	Ad A-Forb	WOODRUFF
GALVEM	*	GALIUM VERUM		5	[UPL]	Ad P-Forb	YELLOW BEDSTRAW
GAUHS	8	Gaultheria hispidula		-3	FACW	Nt Shrub	CREEPING SNOWBERRY
GAUPRO	5	Gaultheria procumbens		3	FACU	Nt Shrub	WINTERGREEN
GAUBIE	2	Gaura biennis		4	FACU-	Nt B-Forb	BIENNIAL GAURA
GAUCOC	*	GAURA COCCINEA		5	[UPL]	Ad P-Forb	SCARLET GAURA
GAULON	*	GAURA LONGIFLORA (G. BIENNIS)		5	[UPL]	Ad B-Forb	BIENNIAL GAURA
GAYBAC	7	Gaylussacia baccata		3	FACU	Nt Shrub	HUCKLEBERRY
GENAND	5	Gentiana andrewsii		-3	FACW	Nt P-Forb	BOTTLE GENTIAN
GENFLA	10	Gentiana flavida (G. alba)	E	3	[FACU]	Nt P-Forb	YELLOWISH GENTIAN
GENLIN	10	Gentiana linearis	T	-2	[FACW-]	Nt P-Forb	NARROW-LEAVED GENTIAN
GENPUB	10	Gentiana puberulenta (G. puberula)	E	3	[FACU]	Nt P-Forb	PRAIRIE GENTIAN
GENRUB	7	Gentiana rubricaulis		-5	OBL	Nt P-Forb	GREAT LAKES GENTIAN
GENSAP	10	Gentiana saponaria	X	-2	FACW-	Nt P-Forb	SOAPWORT GENTIAN
GENQUI	9	Gentianella quinquefolia	T	0	FAC	Nt A-Forb	STIFF GENTIAN
GENCRI	8	Gentianopsis crinita (Gentiana c.)		-4	FACW+	Nt A-Forb	FRINGED GENTIAN
GENPRO	8	Gentianopsis procera (Gentiana p.)		-5	OBL	Nt A-Forb	SMALL FRINGED GENTIAN
GEOLIV	9	Geocaulon lividum		-2	FACW-	Nt P-Forb	GEOCAULON
GERBIC	4	Geranium bicknellii		5	[UPL]	Nt A-Forb	NORTHERN CRANE'S-BILL
GERCAR	4	Geranium carolinianum		5	[UPL]	Nt A-Forb	CAROLINA CRANE'S-BILL
GERCOL	*	GERANIUM COLUMBINUM		5	[UPL]	Ad A-Forb	LONG-STALKED CRANE'S-BILL
GERMAC	4	Geranium maculatum		3	FACU	Nt P-Forb	WILD GERANIUM
GERMOL	*	GERANIUM MOLLE		5	[UPL]	Ad A-Forb	DOVES FOOT CRANE'S-BILL
GERPUS	*	GERANIUM PUSILLUM		5	[UPL]	Ad A-Forb	SMALL GERANIUM
GERPYR	*	GERANIUM PYRENAICUM		5	[UPL]	Ad P-Forb	GERANIUM; CRANE'S-BILL
GERROB	3	Geranium robertianum		5	[UPL]	Nt A-Forb	HERB ROBERT
GERSAN	*	GERANIUM SANGUINEUM		5	[UPL]	Ad P-Forb	BLOODY CRANE'S-BILL
GEUALE	3	Geum aleppicum		-1	FAC+	Nt P-Forb	YELLOW AVENS
GEUCAN	1	Geum canadense		0	FAC	Nt P-Forb	WHITE AVENS
GEULAC	2	Geum laciniatum		-3	FACW	Nt P-Forb	ROUGH AVENS
GEUMAC	5	Geum macrophyllum		-4	FACW+	Nt P-Forb	LARGE-LEAVED AVENS
GEURIV	7	Geum rivale		-5	OBL	Nt P-Forb	PURPLE AVENS
GEUTRI	10	Geum triflorum	T	4	FACU-	Nt P-Forb	PRAIRIE AVENS
GEURB	*	GEUM URBANUM		5	[UPL]	Ad P-Forb	AVENS
GEUVER	6	Geum vernum		1	FAC-	Nt P-Forb	SPRING AVENS
GEUVIR	6	Geum virginianum	SC	4	FACU-	Nt P-Forb	PALE AVENS
GILSTI	*	GILLENIA STIPULATA (PORTERANTHUS)		5	[UPL]	Ad P-Forb	AMERICAN IPECAC

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
		S.)					
GILTRI	8	Gillenia trifoliata (Porteranthus t.)	T	5	[UPL]	Nt P-Forb	BOWMAN'S ROOT
GLAFLA	*	GLAUCIUM FLAVUM		5	[UPL]	Ad B-Forb	HORNED POPPY
GLEHED	*	GLECHOMA HEDERACEA		3	FACU	Ad P-Forb	GROUND IVY
GLETRI	8	Gleditsia triacanthos		0	FAC	Nt Tree	HONEY LOCUST
GLYACU	10	Glyceria acutiflora	X	-5	OBL	Nt P-Grass	MANNA GRASS
GLYBOR	6	Glyceria borealis		-5	OBL	Nt P-Grass	NORTHERN MANNA GRASS
GLYCAN	8	Glyceria canadensis		-5	OBL	Nt P-Grass	RATTLESNAKE GRASS
GLYGRA	6	Glyceria grandis		-5	[OBL]	Nt P-Grass	REED MANNA GRASS
GLYSEP	7	Glyceria septentrionalis		-5	OBL	Nt P-Grass	FLOATING MANNA GRASS
GLYSTR	4	Glyceria striata		-5	OBL	Nt P-Grass	FOWL MANNA GRASS
GLYMAX	*	GLYCINE MAX		5	[UPL]	Ad A-Forb	SOYBEAN
GNAHEL	5	Gnaphalium helleri		4	[FACU-]	Nt A-Forb	CUDWEED
GNAMAC	2	Gnaphalium macounii		5	[UPL]	Nt A-Forb	CLAMMY CUDWEED
GNAOBT	2	Gnaphalium obtusifolium		5	[UPL]	Nt A-Forb	OLD-FIELD BALSAM
GNAPUR	0	Gnaphalium purpureum		3	[FACU]	Nt A-Forb	EARLY CUDWEED
GNASYL	5	Gnaphalium sylvaticum	T	5	[UPL]	Nt P-Forb	WOODLAND CUDWEED
GNAULI	3	Gnaphalium uliginosum		0	[FAC]	Nt A-Forb	LOW CUDWEED
GOOBL	6	Goodyera oblongifolia		5	[UPL]	Nt P-Forb	MENZIES' RATTLESNAKE PLANTAIN
GOOPUB	7	Goodyera pubescens		0	FAC	Nt P-Forb	DOWNY RATTLESNAKE PLANTAIN
GOOREP	9	Goodyera repens		3	FACU	Nt P-Forb	CREEPING RATTLESNAKE PLANTAIN
GOOTES	6	Goodyera tessellata		3	FACU	Nt P-Forb	TESSELATED RATTLESNAKE PLANTAIN
GRAAUR	10	Gratiola aurea (G. lutea)	T	-5	OBL	Nt P-Forb	GOLDEN HEDGE-HYSSOP; GOLDENPERT
GRANEG	5	Gratiola neglecta		-5	OBL	Nt A-Forb	CLAMMY HEDGE HYSSOP
GRAVIR	5	Gratiola virginiana	T	-5	OBL	Nt A-Forb	ROUND-FRUITED HEDGE HYSSOP
GRISQU	*	GRINDELIA SQUARROSA		3	FACU	Ad B-Forb	GUM-WEED
GUIABY	*	GUIZOTIA ABYSSINICA		5	[UPL]	Ad A-Forb	NIGER SEED
GYMDRY	5	Gymnocarpium dryopteris		0	FAC	Nt Fern	OAK FERN
GYMJES	10	Gymnocarpium jessoense	E	5	[UPL]	Nt Fern	NORTHERN OAK FERN
GYMROB	10	Gymnocarpium robertianum	T	3	FACU	Nt Fern	LIMESTONE OAK FERN
GYMDIO	9	Gymnocladus dioicus	SC	5	[UPL]	Nt Tree	KENTUCKY COFFEE TREE
GYPELE	*	GYPHOPHILA ELEGANS		5	[UPL]	Ad A-Forb	BABY'S BREATH
GYPMUR	*	GYPHOPHILA MURALIS		5	[UPL]	Ad A-Forb	BABY'S BREATH
GYPPAN	*	GYPHOPHILA PANICULATA		5	[UPL]	Ad P-Forb	BABY'S BREATH
GYPSCO	*	GYPHOPHILA SCORZONERIFOLIA		2	[FACU+]	Ad P-Forb	BABY'S BREATH
HACDEF	2	Hackelia deflexa		5	[UPL]	Nt P-Forb	STICKSEED
HACVIR	1	Hackelia virginiana		1	FAC-	Nt P-Forb	BEGGAR'S LICE
HALDEF	7	Halenia deflexa		0	FAC	Nt A-Forb	SPURRED GENTIAN
HALCAR	*	HALESIA CAROLINA		5	[UPL]	Ad Tree	SILVER-BELL TREE
HAMVIR	5	Hamamelis virginiana		3	FACU	Nt Shrub	WITCH-HAZEL
HAPCIL	*	HAPLOPAPPUS CILIATUS		5	[UPL]	Ad A-Forb	WAX-GOLDENWEED
HEDHIS	3	Hedeoma hispida		5	UPL	Nt A-Forb	ROUGH PENNYROYAL
HEDPUL	4	Hedeoma pulegioides		5	UPL	Nt A-Forb	AMERICAN PENNYROYAL
HEDNIG	8	Hedyotis nigricans	X	5	UPL	Nt P-Forb	HEDYOTIS; BLUETS
HEDALP	10	Hedysarum alpinum	E	5	[UPL]	Nt P-Forb	ALPINE SAINFOIN
HELAUT	5	Helenium autumnale		-4	FACW+	Nt P-Forb	SNEEZEWEED
HELFLE	*	HELENIUM FLEXUOSUM		-1	FAC+	Ad P-Forb	SNEEZEWEED
HELBIC	10	Helianthemum bicknellii		5	[UPL]	Nt P-Forb	ROCKROSE
HELCAN	8	Helianthemum canadense		5	[UPL]	Nt P-Forb	COMMON ROCKROSE
HELANN	*	HELIANTHUS ANNUUS		1	FAC-	Ad A-Forb	GARDEN SUNFLOWER

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
HELDEC	5	Helianthus decapetalus		5	[UPL]	Nt P-Forb	PALE SUNFLOWER
HELDIV	5	Helianthus divaricatus		5	[UPL]	Nt P-Forb	WOODLAND SUNFLOWER
HELGIG	5	Helianthus giganteus		-3	FACW	Nt P-Forb	TALL SUNFLOWER
HELGRO	2	Helianthus grosseserratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
HELHIR	10	Helianthus hirsutus	SC	5	[UPL]	Nt P-Forb	OBLONG SUNFLOWER
HELMAX	*	HELIANTHUS MAXIMILIANI		5	[UPL]	Ad P-Forb	MAXIMILIAN SUNFLOWER
HELMIC	10	Helianthus microcephalus	X	4	FACU-	Nt P-Forb	SMALL WOOD SUNFLOWER
HELMOL	9	Helianthus mollis	T	5	[UPL]	Nt P-Forb	DOWNY SUNFLOWER
HELOCC	8	Helianthus occidentalis		4	FACU-	Nt P-Forb	WESTERN SUNFLOWER
HELPAU	5	Helianthus pauciflorus		5	[UPL]	Nt P-Forb	STIFF SUNFLOWER
HELPET	*	HELIANTHUS PETIOLARIS		5	[UPL]	Ad A-Forb	PETIOLED SUNFLOWER
HELSTR	4	Helianthus strumosus		5	[UPL]	Nt P-Forb	PALE-LEAVED SUNFLOWER
HELTUB	6	Helianthus tuberosus		0	FAC	Nt P-Forb	JERUSALEM ARTICHOKE
HELHEL	5	Heliopsis helianthoides		5	[UPL]	Nt P-Forb	FALSE SUNFLOWER
HELNIG	*	HELLEBORUS NIGER		5	[UPL]	Ad P-Forb	MIGNONETTE
HELVIR	*	HELLEBORUS VIRIDIS		5	[UPL]	Ad P-Forb	GREEN HELLEBORE
HEMFUL	*	HEMEROCALLIS FULVA		5	[UPL]	Ad P-Forb	ORANGE DAY-LILY
HEMLIL	*	HEMEROCALLIS LILIO-ASPHODELUS		5	[UPL]	Ad P-Forb	YELLOW DAY-LILY
HEMMIC	7	Hemicarpha micrantha (Lipocarpa m.)	SC	-5	OBL	Nt A-Sedge	DWARF-BULRUSH
HEPACU	8	Hepatica acutiloba		5	[UPL]	Nt P-Forb	SHARP-LOBED HEPATICA
HEPAME	6	Hepatica americana		5	[UPL]	Nt P-Forb	ROUND-LOBED HEPATICA
		*HERACLEUM MANTEGAZZIANUM		1	[FAC-]	Ad P-Forb	GIANT HOGWEED
HERMAX	3	Heracleum maximum		-3	[FACW]	Nt P-Forb	COW-PARSNIP
HERGLA	*	HERNIARIA GLABRA		5	[UPL]	Ad A-Forb	HERNIARY
HESMAT	*	HESPERIS MATRONALIS		5	[UPL]	Ad P-Forb	DAME'S ROCKET
HETDUB	6	Heteranthera dubia		-5	[OBL]	Nt P-Forb	WATER STAR-GRASS
HEUAME	8	Heuchera americana		4	FACU-	Nt P-Forb	ALUM ROOT
HEURIC	8	Heuchera richardsonii		1	FAC-	Nt P-Forb	PRAIRIE ALUM ROOT
HIBLAE	7	Hibiscus laevis	SC	-5	OBL	Nt P-Forb	SMOOTH ROSE MALLOW
HIBMOS	7	Hibiscus moscheutos (H. palustris)	SC	-5	OBL	Nt P-Forb	SWAMP ROSE MALLOW
HIBTRI	*	HIBISCUS TRIONUM		5	[UPL]	Ad A-Forb	FLOWER-OF-AN-HOUR
HIEAUR	*	HIERACIUM AURANTIACUM		5	[UPL]	Ad P-Forb	ORANGE HAWKWEED
HIECAE	*	HIERACIUM CAESPITOSUM (H. PRATENSE)		5	[UPL]	Ad P-Forb	KING-DEVIL
HIEFLA	*	HIERACIUM FLAGELLARE		5	[UPL]	Ad P-Forb	WHIP-LASH-HAWKWEED
HIEGRO	5	Hieracium gronovii		5	[UPL]	Nt P-Forb	HAIRY HAWKWEED
HIEKAL	3	Hieracium kalmii		5	[UPL]	Nt P-Forb	KALMS HAWKWEED
HIELAC	*	HIERACIUM LACHENALII		5	[UPL]	Ad P-Forb	EUROPEAN HAWKWEED
HIELON	6	Hieracium longipilum		5	[UPL]	Nt P-Forb	LONG-BEARDED HAWKWEED
HIEMAC	*	HIERACIUM MACULATUM		5	[UPL]	Ad P-Forb	SPOTTED HAWKWEED
HIEMUR	*	HIERACIUM MURORUM		5	[UPL]	Ad P-Forb	HAWKWEED
HIEPAN	10	Hieracium paniculatum	SC	5	UPL	Nt P-Forb	PANICLED HAWKWEED
HIEPIA	*	HIERACIUM PILOSELLA		5	[UPL]	Ad P-Forb	MOUSE-EAR HAWKWEED
HIEPIS	*	HIERACIUM PILOSELLOIDES		5	[UPL]	Ad P-Forb	GLAUOUS KING-DEVIL
HIESCA	3	Hieracium scabrum		5	[UPL]	Nt P-Forb	ROUGH HAWKWEED
HIEUMB	7	Hieracium umbellatum		5	[UPL]	Nt P-Forb	NORTHERN HAWKWEED
HIEVEN	6	Hieracium venosum		5	[UPL]	Nt P-Forb	RATTLESNAKE WEED
HIEODO	9	Hierochloe odorata		-3	FACW	Nt P-Grass	SWEET GRASS
HIPVUL	10	Hippuris vulgaris		-5	OBL	Nt P-Forb	MARE'S-TAIL
HOLLAN	*	HOLCUS LANATUS		4	FACU-	Ad P-Grass	VELVET GRASS
HOLUMB	*	HOLOSTEUM UMBELLATUM		5	[UPL]	Ad A-Forb	JAGGED CHICKWEED

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
HORJUB	*	HORDEUM JUBATUM		-1	FAC+	Ad P-Grass	SQUIRREL-TAIL GRASS
HORPUS	*	HORDEUM PUSILLUM		0	FAC	Ad A-Grass	LITTLE BARLEY
HORVUL	*	HORDEUM VULGARE		5	[UPL]	Ad A-Grass	BARLEY
HOUCAE	4	Houstonia caerulea	SC	3	FACU	Nt P-Forb	BLUETS
HOUCAN	10	Houstonia canadensis		3	[FACU]	Nt P-Forb	BLUETS
HOULON	6	Houstonia longifolia		5	[UPL]	Nt P-Forb	LONG-LEAVED BLUETS
HOUPUR	10	Houstonia purpurea		5	[UPL]	Nt P-Forb	LARGE HOUSTONIA
HUDTOM	10	Hudsonia tomentosa		5	[UPL]	Nt Shrub	BEACH-HEATH
HUMJAP	*	HUMULUS JAPONICUS		3	FACU	Ad A-Forb	JAPANESE HOP
HUMLUP	3	Humulus lupulus		3	FACU	Nt H-Vine	COMMON HOP
HUPAPP	10	Huperzia appalachiana	SC	4	FACU-	Nt Fern Ally	MOUNTAIN FIR MOSS
HUPLUC	5	Huperzia lucidula (Lycopodium lucidulum)		-1	[FAC+]	Nt Fern Ally	SHINING CLUBMOSS
HUPSEL	10	Huperzia selago (Lycopodium s.)	SC	4	[FACU-]	Nt Fern Ally	FIR CLUBMOSS
HYBCON	9	Hybanthus concolor	SC	2	FACU+	Nt P-Forb	GREEN VIOLET
HYDCAS	10	Hydrastis canadensis	T	5	[UPL]	Nt P-Forb	GOLDENSEAL
HYDMOR	*	HYDROCHARIS MORSUS-RANAE		-5	[OBL]	Ad P-Forb	EUROPEAN FROG'S-BIT
HYDAME	6	Hydrocotyle americana		-5	OBL	Nt P-Forb	WATER-PENNYWORT
HYDUMB	10	Hydrocotyle umbellata		-5	OBL	Nt P-Forb	WATER-PENNYWORT
HYDAPP	7	Hydrophyllum appendiculatum		5	[UPL]	Nt P-Forb	GREAT WATERLEAF
HYDCAE	7	Hydrophyllum canadense		-2	FACW-	Nt P-Forb	CANADA WATERLEAF
HYDVIR	4	Hydrophyllum virginianum		-2	FACW-	Nt P-Forb	VIRGINIA WATERLEAF
HYMHER	10	Hymenoxys herbacea (H. acaulis)	E	5	[UPL]	Nt P-Forb	LAKESIDE DAISY
HYONIG	*	HYOSCYAMUS NIGER		5	[UPL]	Ad A-Forb	HENBANE
HYPASC	8	Hypericum ascyron (H. pyramidatum)		-1	[FAC+]	Nt P-Forb	GIANT ST. JOHN'S-WORT
HYPBOR	5	Hypericum boreale		-5	OBL	Nt P-Forb	NORTHERN ST. JOHN'S-WORT
HYPCAN	6	Hypericum canadense		-3	FACW	Nt A-Forb	CANADIAN ST. JOHN'S-WORT
HYPELL	9	Hypericum ellipticum		-5	OBL	Nt P-Forb	PALE ST. JOHN'S-WORT
HYPGEN	6	Hypericum gentianoides	SC	3	FACU	Nt A-Forb	ORANGE GRASS
HYPKAL	10	Hypericum kalmianum		-2	FACW-	Nt Shrub	KALM'S ST. JOHN'S-WORT
HYPMAJ	4	Hypericum majus		-3	FACW	Nt P-Forb	LARGER CANADA ST. JOHN'S-WORT
HYPMUT	5	Hypericum mutilum		-3	FACW	Nt P-Forb	WEAK ST. JOHN'S-WORT
HYPPER	*	HYPERICUM PERFORATUM		5	[UPL]	Ad P-Forb	COMMON ST. JOHN'S-WORT
HYPPRO	5	Hypericum prolificum (H. spathulatum)		3	FACU	Nt Shrub	SHRUBBY ST. JOHN'S-WORT
HYPPUN	4	Hypericum punctatum		-1	FAC+	Nt P-Forb	SPOTTED ST. JOHN'S-WORT
HYPSPH	8	Hypericum sphaerocarpum	T	3	FACU	Nt P-Forb	ROUND-FRUITED ST. JOHN'S-WORT
HYPRAD	*	HYPOCHAERIS RADICATA		5	[UPL]	Ad P-Forb	SPOTTED CAT'S-EAR
HYPHIR	10	Hypoxis hirsuta		0	FAC	Nt P-Forb	STAR-GRASS
HYSOFF	*	HYSSOPUS OFFICINALIS		5	[UPL]	Ad P-Forb	HYSSOP
HYSPAT	5	Hystrix patula		5	[UPL]	Nt P-Grass	BOTTLEBRUSH GRASS
IBEAMA	*	IBERIS AMARA		5	[UPL]	Ad A-Forb	ROCKET CANDYTUFT
IBEUMB	*	IBERIS UMBELLATA		5	[UPL]	Ad A-Forb	GLOBE CANDYTUFT
ILEVER	5	Ilex verticillata		-4	FACW+	Nt Shrub	MICHIGAN HOLLY
IMPBAL	*	IMPATIENS BALSAMINA		5	[UPL]	Ad A-Forb	GARDEN BALSAM
IMPCAP	2	Impatiens capensis		-3	FACW	Nt A-Forb	SPOTTED TOUCH-ME-NOT
IMPGLA	*	IMPATIENS GLANDULIFERA		-3	[FACW]	Ad A-Forb	TOUCH-ME-NOT
IMPPAL	6	Impatiens pallida		-3	FACW	Nt A-Forb	PALE TOUCH-ME-NOT
INUHEL	*	INULA HELENIUM		5	[UPL]	Ad P-Forb	ELECAMPANE
IPOHED	*	IPOMOEA HEDERACEA		0	[FAC]	Ad A-Forb	IVY-LEAVED MORNING GLORY
IPOPAN	7	Ipomoea pandurata	T	3	FACU	Nt P-Forb	WILD SWEET POTATO
IPOPUR	*	IPOMOEA PURPUREA		4	FACU-	Ad A-Forb	COMMON MORNING GLORY

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
IPOMUL	*	IPOMOEA XMULTIFIDA		5	[UPL]	Ad A-Forb	CARDINAL CLIMBER
IPORUB	*	IPOMOPSIS RUBRA		5	[UPL]	Ad B-Forb	STANDING-CYPRESS
IRIGER	*	IRIS GERMANICA		5	[UPL]	Ad P-Forb	FLEUR-DE-LYS
IRILAC	9	Iris lacustris	T	0	FAC	Nt P-Forb	DWARF LAKE IRIS
IRIPSE	*	IRIS PSEUDACORUS		-5	OBL	Ad P-Forb	YELLOW FLAG
IRIPUM	*	IRIS PUMILA		5	[UPL]	Ad P-Forb	IRIS
IRIVER	5	Iris versicolor		-5	OBL	Nt P-Forb	WILD BLUE FLAG
IRIVIR	5	Iris virginica		-5	OBL	Nt P-Forb	SOUTHERN BLUE FLAG
ISOECH	8	Isoetes echinospora		-5	[OBL]	Nt Fern Ally	QUILLWORT
ISOENG	10	Isoetes engelmannii	E	5	[UPL]	Nt Fern Ally	ENGELMANN'S QUILLWORT
ISOLAC	8	Isoetes lacustris		-5	OBL	Nt Fern Ally	QUILLWORT
ISOBIT	8	Isopyrum biternatum		0	FAC	Nt P-Forb	FALSE RUE ANEMONE
ISOMED	9	Isotria medeoloides	E	3	FACU	Nt P-Forb	SMALL WHORLED POGONIA
ISOVER	10	Isotria verticillata	T	0	FAC	Nt P-Forb	WHORLED POGONIA
IVAANN	*	IVA ANNUA		5	[UPL]	Ad A-Forb	ROUGH MARSH-ELDER
IVAXAN	*	IVA XANTHIIFOLIA		0	[FAC]	Ad A-Forb	BIG MARSH-ELDER
JEFDIP	9	Jeffersonia diphylla	SC	5	[UPL]	Nt P-Forb	TWINLEAF
JUGCIN	5	Juglans cinerea		2	FACU+	Nt Tree	BUTTERNUT
JUGNIG	5	Juglans nigra		3	[FACU]	Nt Tree	BLACK WALNUT
JUGREG	*	JUGLANS REGIA		5	[UPL]	Ad Tree	ENGLISH WALNUT
JUNACU	8	Juncus acuminatus		-5	OBL	Nt P-Forb	SHARP-FRUITED RUSH
JUNALP	5	Juncus alpinus		-5	OBL	Nt P-Forb	RUSH
JUNART	3	Juncus articulatus		-5	OBL	Nt P-Forb	JOINTED RUSH
JUNBAL	4	Juncus balticus		-5	OBL	Nt P-Forb	RUSH
JUNBIF	8	Juncus biflorus		-3	FACW	Nt P-Forb	TWO-FLOWERED RUSH
JUNBRR	9	Juncus brachycarpus	T	-3	FACW	Nt P-Forb	SHORT-FRUITED RUSH
JUNBRP	7	Juncus brachycephalus		-5	OBL	Nt P-Forb	RUSH
JUNBRE	8	Juncus brevicaudatus		-5	OBL	Nt P-Forb	RUSH
JUNBUF	2	Juncus bufonius		-4	FACW+	Nt A-Forb	TOAD RUSH
JUNCAN	6	Juncus canadensis		-5	OBL	Nt P-Forb	CANADIAN RUSH
JUNCOU	*	JUNCUS COMPRESSUS		-4	[FACW+]	Ad P-Forb	RUSH
JUNDUD	1	Juncus dudleyi		0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNEFF	3	Juncus effusus		-5	OBL	Nt P-Forb	SOFT-STEMMED RUSH
JUNENS	*	JUNCUS ENSIFOLIUS		-3	[FACW]	Ad P-Forb	DAGGER-LEAF RUSH
JUNFIL	10	Juncus filiformis		-3	FACW	Nt P-Forb	RUSH
JUNGER	*	JUNCUS GERARDII		-5	OBL	Ad P-Forb	BLACK-GRASS
JUNGRE	10	Juncus greenei		0	[FAC]	Nt P-Forb	GREENE'S RUSH
JUNINF	*	JUNCUS INFLEXUS		-3	FACW	Ad P-Forb	RUSH
JUNMAR	8	Juncus marginatus		-3	FACW	Nt P-Forb	GRASS-LEAVED RUSH
JUNMIL	10	Juncus militaris	T	-5	[OBL]	Nt P-Forb	SOLDIER RUSH
JUNNOD	5	Juncus nodosus		-5	OBL	Nt P-Forb	JOINT RUSH
JUNPEL	8	Juncus pelocarpus		-5	OBL	Nt P-Forb	BROWN-FRUITED RUSH
JUNSCI	9	Juncus scirpoides	T	-4	FACW+	Nt P-Forb	ROUND-HEADED RUSH
JUNSTY	10	Juncus stygius	T	5	[UPL]	Nt P-Forb	MOOR RUSH
JUNTEN	1	Juncus tenuis		0	FAC	Nt P-Forb	PATH RUSH
JUNTOR	4	Juncus torreyi		-3	FACW	Nt P-Forb	TORREY'S RUSH
JUNVAS	10	Juncus vaseyi	T	-3	FACW	Nt P-Forb	VASEY'S RUSH
JUNCOI	4	Juniperus communis		3	[FACU]	Nt Shrub	COMMON or GROUND JUNIPER
JUNHOR	10	Juniperus horizontalis		1	FAC-	Nt Shrub	CREEPING JUNIPER
JUNVIR	3	Juniperus virginiana		3	FACU	Nt Tree	RED-CEDAR

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
JUSAME	9	Justicia americana	T	-5	OBL	Nt P-Forb	WATER-WILLOW
KALANG	7	Kalmia angustifolia		0	FAC	Nt Shrub	SHEEP-LAUREL
KALPOL	10	Kalmia polifolia		-5	OBL	Nt Shrub	SWAMP-LAUREL
KICELA	*	KICKXIA ELATINE		0	[FAC]	Ad A-Forb	FLUELLIN
KNAARV	*	KNAUTIA ARVENSIS		5	[UPL]	Ad B-Forb	BLUEBUTTONS
KOCSO	*	KOCHIA SCOPARIA		4	FACU-	Ad A-Forb	SUMMER-CYPRESS
KOEMAC	9	Koeleria macrantha		5	[UPL]	Nt P-Grass	JUNE GRASS
KOLAMA	*	KOLKWITZIA AMABILIS		5	[UPL]	Ad Shrub	BEAUTY BUSH
KRIBIF	5	Krigia biflora		3	FACU	Nt P-Forb	FALSE DANDELION
KRIVIR	4	Krigia virginica		5	[UPL]	Nt A-Forb	DWARF DANDELION
KUHEUP	10	Kuhnia eupatorioides	SC	5	[UPL]	Nt P-Forb	FALSE BONESET
LACBIE	2	Lactuca biennis		0	FAC	Nt B-Forb	TALL BLUE LETTUCE
LACCAN	2	Lactuca canadensis		2	FACU+	Nt B-Forb	TALL LETTUCE
LACFLO	4	Lactuca floridana	T	1	FAC-	Nt B-Forb	WOODLAND LETTUCE
LACHIR	7	Lactuca hirsuta		5	[UPL]	Nt B-Forb	HAIRY TALL LETTUCE
LACMUR	*	LACTUCA MURALIS		5	[UPL]	Ad B-Forb	WALL-LETTUCE
LACPUL	10	Lactuca pulchella	T	0	FAC	Nt P-Forb	BLUE LETTUCE
LACSAL	*	LACTUCA SALIGNA		3	[FACU]	Ad B-Forb	WILLOW LETTUCE
LACSER	*	LACTUCA SERRIOLA		0	FAC	Ad B-Forb	PRICKLY LETTUCE
LAMALB	*	LAMIUM ALBUM		5	[UPL]	Ad P-Forb	WHITE DEAD-NETTLE
LAMAMP	*	LAMIUM AMPLEXICAULE		5	[UPL]	Ad A-Forb	HENBIT
LAMMAC	*	LAMIUM MACULATUM		5	[UPL]	Ad P-Forb	DEAD-NETTLE
LAMPUR	*	LAMIUM PURPUREUM		5	[UPL]	Ad A-Forb	PURPLE DEAD-NETTLE
LAPCAN	4	Laportea canadensis		-3	FACW	Nt P-Forb	WOOD NETTLE
LAPSQU	*	LAPPULA SQUARROSA		5	[UPL]	Ad A-Forb	TWO-ROW STICKSEED
LAPCOM	*	LAPSANA COMMUNIS		5	[UPL]	Ad A-Forb	NIPPLEWORT
LARLAR	5	Larix laricina		-3	FACW	Nt Tree	TAMARACK
LATHIR	*	LATHYRUS HIRSUTUS		5	[UPL]	Ad P-Forb	WILD PEA
LATJAP	10	Lathyrus japonicus		4	FACU-	Nt P-Forb	BEACH PEA
LATLAT	*	LATHYRUS LATIFOLIUS		5	[UPL]	Ad P-Forb	EVERLASTING PEA
LATOCH	8	Lathyrus ochroleucus		5	[UPL]	Nt P-Forb	PALE VETCHLING
LATODO	*	LATHYRUS ODORATUS		5	[UPL]	Ad A-Forb	VETCHLING
LATPAL	7	Lathyrus palustris		-3	FACW	Nt P-Forb	MARSH PEA
LATPRA	*	LATHYRUS PRATENSIS		3	FACU	Ad P-Forb	YELLOW VETCHLING
LATSYL	*	LATHYRUS SYLVESTRIS		5	[UPL]	Ad P-Forb	EVERLASTING PEA
LATTUB	*	LATHYRUS TUBEROSUS		5	[UPL]	Ad P-Forb	TUBEROUS VETCHLING
LATVEN	8	Lathyrus venosus		0	FAC	Nt P-Forb	VEINY PEA
LECINT	6	Lechea intermedia		5	[UPL]	Nt P-Forb	INTERMEDIATE PINWEED
LECMIN	9	Lechea minor	SC	5	[UPL]	Nt P-Forb	SMALL PINWEED
LECPUL	9	Lechea pulchella (L. leggettii)	T	5	[UPL]	Nt P-Forb	LEGGETT'S PINWEED
LECSTR	10	Lechea stricta	SC	5	[UPL]	Nt P-Forb	BUSHY PINWEED
LECVIL	5	Lechea villosa		5	[UPL]	Nt P-Forb	HAIRY PINWEED
LEDGRO	8	Ledum groenlandicum		-5	OBL	Nt Shrub	LABRADOR-TEA
LEEORY	3	Leersia oryzoides		-5	OBL	Nt P-Grass	CUT GRASS
LEEVIR	5	Leersia virginica		-3	FACW	Nt P-Grass	WHITE GRASS
LEMMIN	5	Lemna minor		-5	OBL	Nt A-Forb	SMALL DUCKWEED
LEMTRI	6	Lemna trisulca		-5	OBL	Nt A-Forb	STAR DUCKWEED
LEMVAL	8	Lemna valdiviana	X	-5	OBL	Nt A-Forb	PALE DUCKWEED
LEOAUT	*	LEONTODON AUTUMNALIS		5	[UPL]	Ad P-Forb	FALL-DANDELION
LEOTAR	*	LEONTODON TARAXACOIDES		5	[UPL]	Ad P-Forb	LITTLE HAWKBIT

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
LEOCAR	*	LEONURUS CARDIACA		5	[UPL]	Ad P-Forb	MOTHERWORT
LEPCAM	*	LEPIDIUM CAMPESTRE		5	[UPL]	Ad B-Forb	FIELD CRESS
LEPDEN	*	LEPIDIUM DENSIFLORUM		0	FAC	Ad A-Forb	SMALL PEPPERGRASS
LEPMON	*	LEPIDIUM MONTANUM		5	[UPL]	Ad P-Forb	PEPPERGRASS
LEPPER	*	LEPIDIUM PERFOLIATUM		0	FAC	Ad A-Forb	CLASPING CRESS
LEPRUD	*	LEPIDIUM RUDERALE		5	[UPL]	Ad A-Forb	FETID PEPPERGRASS
LEPSAT	*	LEPIDIUM SATIVUM		5	[UPL]	Ad A-Forb	GARDEN CRESS
LEPVIR	0	Lepidium virginicum		4	FACU-	Nt A-Forb	COMMON PEPPERGRASS
LEPFAS	*	LEPTOCHLOA FASCICULARIS		-5	OBL	Ad A-Grass	SPRANGLETOP
LEPCOG	3	Leptoloma cognatum		5	[UPL]	Nt P-Grass	FALL WITCH GRASS
	*	LESPEDEZA BICOLOR		5	[UPL]	Ad Shrub	SHRUBBY LESPEDEZA
LESCAP	5	Lespedeza capitata		3	FACU	Nt P-Forb	ROUND-HEADED BUSH-CLOVER
LESCUN	*	LESPEDEZA CUNEATA		5	[UPL]	Ad P-Forb	SILKY BUSH-CLOVER
LESHIR	7	Lespedeza hirta		5	[UPL]	Nt P-Forb	HAIRY BUSH-CLOVER
LESINT	7	Lespedeza intermedia		5	[UPL]	Nt P-Forb	BUSH-CLOVER
LESPRO	10	Lespedeza procumbens	X	5	[UPL]	Nt P-Forb	TRAILING BUSH-CLOVER
LESSTI	*	LESPEDEZA STIPULACEA		3	FACU	Ad A-Forb	KOREAN BUSH-CLOVER
LESTHU	*	LESPEDEZA THUNBERGII		5	[UPL]	Ad Shrub	JAPANESE BUSH-CLOVER
LESVIO	5	Lespedeza violacea		5	[UPL]	Nt P-Forb	VIOLET BUSH-CLOVER
LESVIR	7	Lespedeza virginica		5	[UPL]	Nt P-Forb	SLENDER BUSH-CLOVER
LEUGRA	5	Leucophysalis grandiflora		5	[UPL]	Nt A-Forb	WHITE-FLOWERED GROUND-CHERRY
LEUMUL	8	Leucospora multifida (Conobea m.)	SC	0	[FAC]	Nt A-Forb	CONOBEA
LEVOFF	*	LEVISTICUM OFFICINALE		5	[UPL]	Ad P-Forb	LOVAGE
LIAASP	4	Liatris aspera		5	[UPL]	Nt P-Forb	ROUGH BLAZING STAR
LIACYL	5	Liatris cylindracea		5	[UPL]	Nt P-Forb	CYLINDRICAL BLAZING STAR
LIAPUN	10	Liatris punctata	X	5	[UPL]	Nt P-Forb	DOTTED BLAZING STAR
LIAPYC	*	LIATRIS PYCNOSTACHYA		1	[FAC-]	Ad P-Forb	PRAIRIE BLAZING STAR
LIASCA	5	Liatris scariosa (L. novae-angliae)		5	[UPL]	Nt P-Forb	NORTHERN BLAZING STAR
LIASPI	8	Liatris spicata		0	FAC	Nt P-Forb	MARSH BLAZING STAR
LIASQU	10	Liatris squarrosa	X	5	[UPL]	Nt P-Forb	PLAINS BLAZING STAR
LIGOBT	*	LIGUSTRUM OBTUSIFOLIUM		5	[UPL]	Ad Shrub	BORDER PRIVET
LIGOVA	*	LIGUSTRUM OVALIFOLIUM		5	[UPL]	Ad Shrub	PRIVET
LIGVUL	*	LIGUSTRUM VULGARE		1	[FAC-]	Ad Shrub	COMMON PRIVET
LILLAN	*	LILIUM LANCIFOLIUM		5	[UPL]	Ad P-Forb	TIGER LILY
LILMIC	5	Lilium michiganense		-1	[FAC+]	Nt P-Forb	MICHIGAN LILY
LILPHI	10	Lilium philadelphicum		1	FAC-	Nt P-Forb	WOOD LILY
LINCAN	8	Linaria canadensis		5	[UPL]	Nt A-Forb	BLUE TOADFLAX
LINDAL	*	LINARIA DALMATICA		5	[UPL]	Ad P-Forb	DALMATIAN TOADFLAX
LINSPA	*	LINARIA SPARTEA		5	[UPL]	Ad A-Forb	BUTTER-AND-EGGS
LINVUL	*	LINARIA VULGARIS		5	[UPL]	Ad P-Forb	BUTTER-AND-EGGS
LINBEN	7	Lindera benzoin		-2	FACW-	Nt Shrub	SPICEBUSH
LINANA	8	Lindernia anagallidea		-5	OBL	Nt A-Forb	SLENDER FALSE PIMPERNEL
LINDUB	4	Lindernia dubia		-5	OBL	Nt A-Forb	FALSE PIMPERNEL
LINBOR	6	Linnaea borealis		0	FAC	Nt P-Forb	TWINFLOWER
LINCAT	*	LINUM CATHARTICUM		3	[FACU]	Ad A-Forb	FAIR FLAX
LINMED	7	Linum medium		3	FACU	Nt P-Forb	SMALL YELLOW FLAX
LINPER	*	LINUM PERENNE		5	[UPL]	Ad P-Forb	PERENNIAL FLAX
LINSTR	10	Linum striatum		-2	FACW-	Nt P-Forb	STIFF YELLOW FLAX
LINSUL	8	Linum sulcatum	SC	5	[UPL]	Nt P-Forb	GROOVED YELLOW FLAX
LINUSI	*	LINUM USITATISSIMUM		5	[UPL]	Ad A-Forb	COMMON FLAX

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
LINVIR	9	Linum virginianum	T	-3	FACW	Nt P-Forb	SLENDER YELLOW FLAX
LIPLIL	8	Liparis liliifolia	SC	4	FACU-	Nt P-Forb	LILY-LEAVED TWAYBLADE
LIPLOE	5	Liparis loeselii		-4	FACW+	Nt P-Forb	LOESEL'S TWAYBLADE
LIRTUL	9	Liriodendron tulipifera		2	FACU+	Nt Tree	TULIP TREE
LISAUR	9	Listera auriculata	SC	-4	FACW+	Nt P-Forb	AURICLED TWAYBLADE
LISCON	10	Listera convallarioides		-3	FACW	Nt P-Forb	BROAD-LEAVED TWAYBLADE
LISCOR	10	Listera cordata		-3	FACW	Nt P-Forb	HEART-LEAVED TWAYBLADE
LITARV	*	LITHOSPERMUM ARVENSE		5	[UPL]	Ad A-Forb	CORN GROMWELL
LITCAN	10	Lithospermum canescens		5	[UPL]	Nt P-Forb	HOARY PUCCOON
LITCAR	10	Lithospermum caroliniense		5	[UPL]	Nt P-Forb	PLAINS PUCCOON
LITINC	10	Lithospermum incisum	X	5	[UPL]	Nt P-Forb	FRINGED PUCCOON
LITLAT	10	Lithospermum latifolium	SC	5	[UPL]	Nt P-Forb	BROAD-LEAVED PUCCOON
LITOFF	*	LITHOSPERMUM OFFICINALE		5	[UPL]	Ad P-Forb	EUROPEAN GROMWELL
LITUNA	10	Littorella uniflora var. americana (L. americana)	SC	-5	OBL	Nt P-Forb	AMERICAN SHORE-GRASS
LOBCAR	7	Lobelia cardinalis		-5	OBL	Nt P-Forb	CARDINAL FLOWER
LOBDOR	10	Lobelia dortmanna		-5	OBL	Nt P-Forb	WATER LOBELIA
LOBERI	*	LOBELIA ERINUS		5	[UPL]	Ad A-Forb	EDGING LOBELIA
LOBINF	0	Lobelia inflata		4	FACU-	Nt A-Forb	INDIAN TOBACCO
LOBKAL	10	Lobelia kalmii		-5	OBL	Nt P-Forb	BOG LOBELIA
LOBSIP	4	Lobelia siphilitica		-4	FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LOBSPI	4	Lobelia spicata		0	FAC	Nt P-Forb	PALE SPIKED LOBELIA
LOBMAR	*	LOBULARIA MARITIMA		5	[UPL]	Ad A-Forb	SWEET ALYSSUM
LOLPER	*	LOLIUM PERENNE		3	FACU	Ad P-Grass	PERENNIAL RYE GRASS
LOLTEM	*	LOLIUM TEMULENTUM		5	[UPL]	Ad A-Grass	DARNEL
LONCAN	5	Lonicera canadensis		3	FACU	Nt Shrub	AMERICAN FLY HONEYSUCKLE
LONCAP	*	LONICERA CAPRIFOLIUM		5	[UPL]	Ad W-Vine	EUROPEAN HONEYSUCKLE
LONDIO	5	Lonicera dioica		3	FACU	Nt W-Vine	RED HONEYSUCKLE
LONHIR	6	Lonicera hirsuta		0	FAC	Nt Shrub	HAIRY HONEYSUCKLE
LONINV	10	Lonicera involucrata	T	3	FACU	Nt Shrub	BLACK TWINBERRY
LONJAP	*	LONICERA JAPONICA		3	FACU	Ad P-Forb	JAPANESE HONEYSUCKLE
LONMAA	*	LONICERA MAACKII		5	[UPL]	Ad Shrub	AMUR HONEYSUCKLE
LONMOR	*	LONICERA MORROWII		5	[UPL]	Ad Shrub	MORROW HONEYSUCKLE
LONOBL	8	Lonicera oblongifolia		-5	OBL	Nt Shrub	SWAMP FLY HONEYSUCKLE
LONSEM	*	LONICERA SEMPERVIRENS		5	UPL	Ad W-Vine	TRUMPET HONEYSUCKLE
LONTAT	*	LONICERA TATARICA		3	FACU	Ad Shrub	SMOOTH TARTARIAN HONEYSUCKLE
LONVIL	8	Lonicera villosa		-3	[FACW]	Nt Shrub	FLY HONEYSUCKLE
LONBEL	*	LONICERA XBELLA		3	[FACU]	Ad Shrub	HYBRID HONEYSUCKLE
LONXYL	*	LONICERA XYLOSTEUM		5	[UPL]	Ad Shrub	EUROPEAN FLY HONEYSUCKLE
LOTCOR	*	LOTUS CORNICULATA		1	FAC-	Ad P-Forb	BIRDFOOT TREFOIL
LUDALT	8	Ludwigia alternifolia	SC	-5	OBL	Nt P-Forb	SEEDBOX
LUDPAL	4	Ludwigia palustris		-5	OBL	Nt P-Forb	WATER-PURSLANE
LUDPOL	6	Ludwigia polycarpa		-5	OBL	Nt P-Forb	FALSE LOOSESTRIFE
LUDSPH	10	Ludwigia sphaerocarpa	T	-5	OBL	Nt P-Forb	ROUND-FRUITED LOOSESTRIFE
LUNANN	*	LUNARIA ANNUA		5	[UPL]	Ad A-Forb	MONEY-PLANT
LUPPER	7	Lupinus perennis		5	[UPL]	Nt P-Forb	WILD LUPINE
LUPPOC	*	LUPINUS POLYCARPUS		5	[UPL]	Ad A-Forb	LUPINE
LUPPOP	*	LUPINUS POLYPHYLLUS		5	[UPL]	Ad P-Forb	GARDEN LUPINE
LUZACU	5	Luzula acuminata		1	FAC-	Nt P-Forb	HAIRY WOOD RUSH
LUZMUL	5	Luzula multiflora		3	FACU	Nt P-Forb	COMMON WOOD RUSH

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
LUZPAR	10	Luzula parviflora	T	0	FAC	Nt P-Forb	SMALL-FLOWERED WOOD RUSH
LYCCHA	*	LYCHNIS CHALCEDONICA		5	[UPL]	Ad P-Forb	MALTESE CROSS; SCARLET LYCHNIS
LYCCOR	*	LYCHNIS CORONARIA		5	[UPL]	Ad P-Forb	MULLEIN PINK
LYCBAR	*	LYCIUM BARBARUM		5	[UPL]	Ad Shrub	MATRIMONY-VINE
LYCCHI	*	LYCIUM CHINENSE		5	[UPL]	Ad Shrub	MATRIMONY-VINE
LYCESC	*	LYCOPERSICUM ESCULENTUM		5	[UPL]	Ad A-Forb	TOMATO
LYCINU	7	Lycopodiella inundata (Lycopodium i.)		-5	[OBL]	Nt Fern Ally	BOG CLUBMOSS
LYCMAR	7	Lycopodiella margueriteae (L. appressum, Lycopodium m.)	T	-3	[FACW]	Nt Fern Ally	NORTHERN PROSTRATE CLUBMOSS
LYCSUB	8	Lycopodiella subappressa (L. appressum, Lycopodium s.)	SC	-3	[FACW]	Nt Fern Ally	NORTHERN CLUBMOSS
LYCANN	5	Lycopodium annotinum		0	FAC	Nt Fern Ally	STIFF CLUBMOSS
LYCCLA	4	Lycopodium clavatum		0	FAC	Nt Fern Ally	RUNNING GROUND-PINE
LYCDEN	5	Lycopodium dendroideum		0	FAC	Nt Fern Ally	TREE CLUBMOSS
LYCLAG	5	Lycopodium lagopus		5	[UPL]	Nt Fern Ally	RUNNING GROUND-PINE
LYCOBS	5	Lycopodium obscurum		3	FACU	Nt Fern Ally	GROUND-PINE
LYCHAB	5	Lycopodium Xhabereri		5	[UPL]	Nt Fern Ally	HYBRID GROUND-CEDAR
LYCAME	2	Lycopus americanus		-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
LYCASP	*	LYCOPUS ASPER		-5	OBL	Ad P-Forb	ROUGH WATER HOREHOUND
LYCEUR	*	LYCOPUS EUROPAEUS		-5	[OBL]	Ad P-Forb	EUROPEAN WATER HOREHOUND
LYCRUB	8	Lycopus rubellus		-5	OBL	Nt P-Forb	STALKED WATER HOREHOUND
LYCUNI	2	Lycopus uniflorus		-5	OBL	Nt P-Forb	NORTHERN BUGLE WEED
LYCVIR	8	Lycopus virginicus	T	-5	OBL	Nt P-Forb	BUGLE WEED
LYGPAL	8	Lygodium palmatum	E	3	[FACU]	Nt P-Forb	CLIMBING FERN
LYSCIL	4	Lysimachia ciliata		-3	FACW	Nt P-Forb	FRINGED LOOSESTRIFE
LYSCLE	*	LYSIMACHIA CLETHROIDES		5	[UPL]	Ad P-Forb	LOOSESTRIFE
LYSHYB	10	Lysimachia hybrida	SC	-5	[OBL]	Nt P-Forb	LANCE-LEAVED LOOSESTRIFE
LYSLAN	9	Lysimachia lanceolata		0	FAC	Nt P-Forb	LANCE-LEAVED LOOSESTRIFE
LYSNUM	*	LYSIMACHIA NUMMULARIA		-4	FACW+	Ad P-Forb	MONEYWORT
LYSPUN	*	LYSIMACHIA PUNCTATA		5	[UPL]	Ad P-Forb	GARDEN LOOSESTRIFE
LYSQUR	10	Lysimachia quadriflora		-5	OBL	Nt P-Forb	WHORLED LOOSESTRIFE
LYSQUL	8	Lysimachia quadrifolia		-5	OBL	Nt P-Forb	FOUR-LEAVED LOOSESTRIFE
LYSTER	6	Lysimachia terrestris		-5	OBL	Nt P-Forb	SWAMP CANDLES
LYSTHY	6	Lysimachia thysiflora		-5	OBL	Nt P-Forb	TUFTED LOOSESTRIFE
LYSVUL	*	LYSIMACHIA VULGARIS		-2	[FACW-]	Ad A-Forb	GARDEN LOOSESTRIFE
LYTALA	9	Lythrum alatum		-5	OBL	Nt P-Forb	WINGED LOOSESTRIFE
LYTHYS	*	LYTHRUM HYSSOPIFOLIA		-5	OBL	Ad A-Forb	HYSSOP LOOSESTRIFE
LYTSAL	*	LYTHRUM SALICARIA		-5	OBL	Ad P-Forb	PURPLE LOOSESTRIFE
MACCOR	*	MACLEAYA CORDATA		5	[UPL]	Ad A-Forb	PLUME POPPY
MACPOM	*	MACLURA POMIFERA		3	FACU	Ad Tree	OSAGE ORANGE
MADGLO	*	MADIA GLOMERATA		5	[UPL]	Ad A-Forb	MOUNTAIN TARWEED
MAHAQU	*	MAHONIA AQUIFOLIUM		5	[UPL]	Ad Shrub	OREGON-GRAPE
MAICAC	4	Maianthemum canadense		0	FAC	Nt P-Forb	CANADA MAYFLOWER
MAICAI	4	Maianthemum canadense var. interius		0	FAC	Nt P-Forb	CANADA MAYFLOWER
MALMON	10	Malaxis monophylla		-3	FACW	Nt P-Forb	WHITE ADDER'S MOUTH
MALUNI	8	Malaxis unifolia		0	FAC	Nt P-Forb	GREEN ADDER'S MOUTH
MALBAC	*	MALUS BACCATA		5	[UPL]	Ad Tree	SIBERIAN CRAB
MALCOR	4	Malus coronaria		5	[UPL]	Nt Tree	AMERICAN CRAB
MALIOE	4	Malus ioensis		5	[UPL]	Nt Tree	PRAIRIE CRAB
MALPUM	*	MALUS PUMILA		5	[UPL]	Ad Tree	APPLE

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
MALALC	*	MALVA ALCEA		5	[UPL]	Ad P-Forb	VERVAIN MALLOW
MALCRI	*	MALVA CRISPA		5	[UPL]	Ad A-Forb	CURLED MALLOW
MALMOS	*	MALVA MOSCHATA		5	[UPL]	Ad P-Forb	MUSK MALLOW
MALNEG	*	MALVA NEGLECTA		5	[UPL]	Ad B-Forb	CHEESES
MALROT	*	MALVA ROTUNDIFOLIA		5	[UPL]	Ad B-Forb	ROUND-LEAVED MALLOW
MALSYL	*	MALVA SYLVESTRIS		5	[UPL]	Ad B-Forb	HIGH MALLOW
MARVUL	*	MARRUBIUM VULGARE		0	FAC	Ad P-Forb	HOREHOUND
MARQUA	*	MARSILEA QUADRIFOLIA		-5	OBL	Ad Fern	EUROPEAN WATER-CLOVER
MATDIS	*	MATRICARIA DISCOIDEA		3	[FACU]	Ad A-Forb	PINEAPPLE-WEED
MATPER	*	MATRICARIA PERFORATA		5	[UPL]	Ad A-Forb	SCENTLESS CHAMOMILE
MATREC	*	MATRICARIA RECUTITA		5	[UPL]	Ad A-Forb	FALSE CHAMOMILE
MATSTR	3	Matteuccia struthiopteris		-3	FACW	Nt Fern	OSTRICH FERN
MAZREP	*	MAZUS REPTANS		5	[UPL]	Ad P-Forb	MAZUS
MEDVIR	10	Medeola virginiana		5	[UPL]	Nt P-Forb	INDIAN CUCUMBER ROOT
MEDLUP	*	MEDICAGO LUPULINA		1	FAC-	Ad A-Forb	BLACK MEDICK
MEDPOL	*	MEDICAGO POLYMORPHA		5	[UPL]	Ad A-Forb	SMOOTH BUR-CLOVER
MEDSAT	*	MEDICAGO SATIVA		5	[UPL]	Ad P-Forb	ALFALFA
MEGBEC	10	Megalodonta beckii (Bidens b.)		-5	OBL	Nt P-Forb	WATER-MARIGOLD
MELLIN	6	Melampyrum lineare		1	FAC-	Nt A-Forb	COW-WHEAT
MELSMI	7	Melica smithii		5	[UPL]	Nt P-Grass	MELIC GRASS
MELALB	*	MELILOTUS ALBA		3	FACU	Ad B-Forb	WHITE SWEET-CLOVER
MELALT	*	MELILOTUS ALTISSIMA		5	[UPL]	Ad B-Forb	TALL SWEET-CLOVER
MELLOF	*	MELILOTUS OFFICINALIS		3	FACU	Ad B-Forb	YELLOW SWEET-CLOVER
MELSOB	*	MELISSA OFFICINALIS		5	[UPL]	Ad P-Forb	BALM
MENCAN	5	Menispermum canadense		0	FAC	Nt W-Vine	MOONSEED
MENARV	3	Mentha arvensis		-3	FACW	Nt P-Forb	WILD MINT
MENPIP	*	MENTHA PIPERITA		-5	[OBL]	Ad P-Forb	PEPPERMINT
MENSPI	*	MENTHA SPICATA		-4	FACW+	Ad P-Forb	SPEARMINT
MENSUA	*	MENTHA SUAVEOLENS		-3	[FACW]	Ad P-Forb	APPLE MINT
MENVIL	*	MENTHA XVILLOSA		-3	[FACW]	Ad P-Forb	MINT
MENTRI	8	Menyanthes trifoliata		-5	OBL	Nt P-Forb	BUCKBEAN
MERPAN	8	Mertensia paniculata		0	FAC	Nt P-Forb	NORTHERN BLUEBELL
MERVIR	10	Mertensia virginica	T	-3	FACW	Nt P-Forb	VIRGINIA BLUEBELLS
MIKSCA	6	Mikania scandens	X	-4	FACW+	Nt P-Forb	CLIMBING HEMPWEED
MILEFF	8	Milium effusum		4	[FACU-]	Nt P-Grass	WOOD MILLET
MIMALA	9	Mimulus alatus	X	-5	OBL	Nt P-Forb	WINGED MONKEY-FLOWER
MIMGLJ	10	Mimulus glabratus var. jamesii (M. g. fremontii)		-5	OBL	Nt P-Forb	JAMES' MONKEY-FLOWER
MIMGLM	10	Mimulus glabratus var. michiganensis	E	-5	OBL	Nt P-Forb	MICHIGAN MONKEY-FLOWER
MIMGUT	8	Mimulus guttatus	SC	-5	[OBL]	Nt P-Forb	WESTERN MONKEY-FLOWER
MIMMOS	10	Mimulus moschatus		-5	OBL	Nt P-Forb	MUSKY MONKEY-FLOWER
MIMRIN	5	Mimulus ringens		-5	OBL	Nt P-Forb	MONKEY-FLOWER
MIRALB	*	MIRABILIS ALBIDA		5	[UPL]	Ad P-Forb	PALE UMBRELLAWORT
MIRHIR	*	MIRABILIS HIRSUTA		5	[UPL]	Ad P-Forb	HAIRY UMBRELLAWORT
MIRLIN	*	MIRABILIS LINEARIS		5	[UPL]	Ad P-Forb	NARROW-LEAVED UMBRELLAWORT
MIRNYC	*	MIRABILIS NYCTAGINEA		5	[UPL]	Ad P-Forb	WILD FOUR O'CLOCK
MISSAC	*	MISCANTHUS SACCHARIFLORUS		5	[UPL]	Ad P-Grass	EULALIA
MISSIZ	*	MISCANTHUS SINENSIS var. ZEBRINUS		5	[UPL]	Ad P-Grass	EULALIA
MITREP	5	Mitchella repens		2	[FACU+]	Nt P-Forb	PARTRIDGE BERRY
MITDIP	8	Mitella diphylla		2	FACU+	Nt P-Forb	BISHOP'S CAP

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
MITNUD	8	Mitella nuda		-3	FACW	Nt P-Forb	NAKED MITERWORT
MOLVER	*	MOLLUGO VERTICILLATA		0	FAC	Ad A-Forb	CARPET-WEED
MONDID	9	Monarda didyma	X	3	[FACU]	Nt P-Forb	OSWEGO-TEA
MONFIS	2	Monarda fistulosa		3	FACU	Nt P-Forb	WILD BERGAMOT
MONPUN	4	Monarda punctata		5	[UPL]	Nt P-Forb	HORSEMINT
MONEUN	8	Moneses uniflora		0	[FAC]	Nt P-Forb	ONE-FLOWERED PYROLA
MONHYP	6	Monotropa hypopithys		5	[UPL]	Nt P-Forb	PINESAP
MONOUN	5	Monotropa uniflora		3	FACU	Nt P-Forb	INDIAN PIPE
MORALB	*	MORUS ALBA		0	FAC	Ad Tree	WHITE MULBERRY
MORRUB	9	Morus rubra	T	1	FAC-	Nt Tree	RED MULBERRY
MUHASP	*	MUHLENBERGIA ASPERIFOLIA		5	[UPL]	Ad P-Grass	MUHLY GRASS
MUHCUS	10	Muhlenbergia cuspidata	X	5	[UPL]	Nt P-Grass	PLAINS MUHLY
MUHFRO	3	Muhlenbergia frondosa		-3	FACW	Nt P-Grass	COMMON SATIN GRASS
MUHGLO	10	Muhlenbergia glomerata		-4	FACW+	Nt P-Grass	MARSH WILD-TIMOTHY
MUHMEX	3	Muhlenbergia mexicana		-3	FACW	Nt P-Grass	LEAFY SATIN GRASS
MUHRAC	*	MUHLENBERGIA RACEMOSA		-3	[FACW]	Ad P-Grass	UPLAND WILD-TIMOTHY
MUHRIC	10	Muhlenbergia richardsonis	T	-1	FAC+	Nt P-Grass	MAT MUHLY
MUHSCH	0	Muhlenbergia schreberi		0	FAC	Nt P-Grass	NIMBLEWILL
MUHSYL	8	Muhlenbergia sylvatica		-3	FACW	Nt P-Grass	WOODLAND SATIN GRASS
MUHTEN	8	Muhlenbergia tenuiflora		5	[UPL]	Nt P-Grass	SLENDER SATIN GRASS
MUHUNI	8	Muhlenbergia uniflora		-5	OBL	Nt P-Grass	MUHLY GRASS
MUSATL	*	MUSCARI ATLANTICUM		5	[UPL]	Ad P-Forb	GRAPE-HYACINTH
MUSBOT	*	MUSCARI BOTRYOIDES		5	[UPL]	Ad P-Forb	GRAPE-HYACINTH
MYOARV	*	MYOSOTIS ARVENSIS		0	FAC	Ad B-Forb	FIELD SCORPION-GRASS
MYODIS	*	MYOSOTIS DISCOLOR		5	[UPL]	Ad A-Forb	YELLOW & BLUE SCORPION-GRASS
MYOLAX	6	Myosotis laxa		-5	OBL	Nt P-Forb	SMALL FORGET-ME-NOT
MYOSCO	*	MYOSOTIS SCORPIOIDES		-5	OBL	Ad P-Forb	FORGET-ME-NOT
MYOSTR	*	MYOSOTIS STRICTA		5	[UPL]	Ad A-Forb	SMALL-FLOWERED FORGET-ME-NOT
MYOSYL	*	MYOSOTIS SYLVATICA		5	[UPL]	Ad P-Forb	WOODLAND FORGET-ME-NOT
MYOVER	6	Myosotis verna		1	FAC-	Nt A-Forb	WHITE FORGET-ME-NOT
MYOAQU	*	MYOSOTON AQUATICUM		-1	[FAC+]	Ad P-Forb	GIANT CHICKWEED
MYOMIN	*	MYOSURUS MINIMUS		0	[FAC]	Ad A-Forb	MOUSE TAIL
MYRGAL	6	Myrica gale		-5	OBL	Nt Shrub	SWEET GALE
		*MYRICA PENNSYLVANICA		0	[FAC]	Ad Shrub	NORTHERN BAYBERRY
MYRALT	10	Myriophyllum alterniflorum	SC	-5	OBL	Nt P-Forb	ALTERNATE-LEAVED WATER-MILFOIL
MYREXA	10	Myriophyllum exalbescens		-5	[OBL]	Nt P-Forb	SPIKED WATER-MILFOIL
MYRFAR	10	Myriophyllum farwellii	T	-5	OBL	Nt P-Forb	FARWELL'S WATER-MILFOIL
MYRHET	6	Myriophyllum heterophyllum		-5	OBL	Nt P-Forb	VARIOUS-LEAVED WATER-MILFOIL
MYRSPI	*	MYRIOPHYLLUM SPICATUM		-5	OBL	Ad P-Forb	EURASIAN WATER MILFOIL
MYRTEN	10	Myriophyllum tenellum		-5	OBL	Nt P-Forb	WATER-MILFOIL
MYRVER	6	Myriophyllum verticillatum		-5	OBL	Nt P-Forb	WATER-MILFOIL
MYRODO	*	MYRRHIS ODORATA		5	[UPL]	Ad P-Forb	MYRRH
NAJFLE	5	Najas flexilis		-5	OBL	Nt A-Forb	SLENDER NAIAD
NAJGRA	8	Najas gracillima		-5	OBL	Nt A-Forb	NAIAD
NAJGUA	7	Najas guadalupensis		-5	OBL	Nt A-Forb	SOUTHERN NAIAD
NAJMAR	*	NAJAS MARINA		-5	OBL	Ad A-Forb	SPINY NAIAD
NAJMIN	*	NAJAS MINOR		-5	OBL	Ad A-Forb	NAIAD
NARSTR	*	NARDUS STRICTA		5	[UPL]	Ad P-Grass	MAT GRASS
NASOFF	*	NASTURTIUM OFFICINALE		-5	OBL	Ad P-Grass	WATERCRESS
NELLUT	8	Nelumbo lutea	T	-5	OBL	Nt P-Forb	AMERICAN LOTUS

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
NEMMUC	7	Nemopanthus mucronatus		-5	OBL	Nt Shrub	MOUNTAIN HOLLY
NEPCAT	*	NEPETA CATARIA		1	FAC-	Ad P-Forb	CATNP
NESPAN	*	NESLIA PANICULATA		5	[UPL]	Ad A-Forb	BALL MUSTARD
NICPHY	*	NICANDRA PHYSALODES		5	[UPL]	Ad A-Forb	APPLE OF PERU
NICRUS	*	NICOTIANA RUSTICA		5	[UPL]	Ad A-Forb	TOBACCO
NIGDAM	*	NIGELLA DAMASCENA		5	[UPL]	Ad A-Forb	LOVE-IN-A-MIST
NUPADV	8	Nuphar advena		-5	[OBL]	Nt P-Forb	YELLOW POND-LILY
NUPPUM	10	Nuphar pumila	E	-5	[OBL]	Nt P-Forb	SMALL YELLOW POND-LILY
NUPVAR	7	Nuphar variegata		-5	[OBL]	Nt P-Forb	YELLOW POND-LILY
NYMODO	6	Nymphaea odorata (N. tuberosa)		-5	OBL	Nt P-Forb	SWEET-SCENTED WATERLILY
NYMTET	10	Nymphaea tetragona	E	-5	OBL	Nt P-Forb	PYGMY POND-LILY
NYSSYL	9	Nyssa sylvatica		-4	[FACW+]	Nt Tree	BLACK GUM
OCIBAS	*	OCIMUM BASILICUM		5	[UPL]	Ad A-Forb	BASIL
ODOVUL	*	ODONTITES VULGARIS		5	[UPL]	Ad A-Forb	RED BARTSIA
OENBIE	2	Oenothera biennis		3	FACU	Nt B-Forb	COMMON EVENING-PRIMROSE
OENCLE	7	Oenothera clelandii		5	[UPL]	Nt B-Forb	EVENING-PRIMROSE
OENFRU	7	Oenothera fruticosa		2	FACU+	Nt P-Forb	SUNDROPS
OENGLA	*	OENOTHERA GLAZIOVIANA		5	[UPL]	Ad B-Forb	GARDEN EVENING-PRIMROSE
OENLAC	3	Oenothera laciniata		3	FACU	Nt A-Forb	RAGGED EVENING-PRIMROSE
OENNUT	*	OENOTHERA NUTTALLII		5	[UPL]	Ad P-Forb	WHITE EVENING-PRIMROSE
OENOAK	8	Oenothera oakesiana		5	[UPL]	Nt B-Forb	EVENING-PRIMROSE
OENPAR	2	Oenothera parviflora		3	FACU	Nt B-Forb	EVENING-PRIMROSE
OENPER	5	Oenothera perennis		0	FAC	Nt P-Forb	SMALL SUNDROPS
OENPIL	*	OENOTHERA PILOSELLA		1	FAC-	Ad P-Forb	PRAIRIE SUNDROPS
OENRHO	*	OENOTHERA RHOMBIPETALA		3	FACU	Ad B-Forb	LONG-SPIKED EVENING-PRIMROSE
OENVIL	4	Oenothera villosa		0	FAC	Nt B-Forb	EVENING-PRIMROSE
ONOUSEN	2	Onoclea sensibilis		-3	FACW	Nt Fern	SENSITIVE FERN
ONOACA	*	ONOPORDUM ACANTHIUM		5	[UPL]	Ad B-Forb	SCOTCH THISTLE
ONOMOL	6	Onosmodium molle	X	4	[FACU-]	Nt P-Forb	FALSE GROMWELL
OPHPUS	6	Ophioglossum pusillum		3	[FACU]	Nt Fern	NORTHERN ADDER'S-TONGUE
OPHVUL	10	Ophioglossum vulgatum (O. pycnostichum)	T	-3	FACW	Nt Fern	SOUTHERN ADDERS-TONGUE
OPLHOR	9	Oplopanax horridus	T	-3	FACW	Nt Shrub	DEVILS-CLUB
OPUFRA	10	Opuntia fragilis	E	5	[UPL]	Nt Shrub	FRAGILE PRICKLY-PEAR
OPUHUM	7	Opuntia humifusa		5	[UPL]	Nt Shrub	PRICKLY PEAR
ORIVUL	*	ORIGANUM VULGARE		5	[UPL]	Ad P-Forb	WILD MARJORAM
ORNNU	*	ORNITHOGALUM NUTANS		5	[UPL]	Ad P-Forb	STAR-OF-BETHLEHEM
ORNUB	*	ORNITHOGALUM UMBELLATUM		1	FAC-	Ad P-Forb	STAR-OF-BETHLEHEM
OROFAS	10	Orobanche fasciculata	T	5	[UPL]	Nt P-Forb	CLUSTERED BROOM RAPE
OROUNI	8	Orobanche uniflora		5	[UPL]	Nt P-Forb	CANCER ROOT
ORTSEC	7	Orthilia secunda (Pyrola s.)		-1	[FAC+]	Nt P-Forb	ONE-SIDED PYROLA
ORYASP	6	Oryzopsis asperifolia		5	[UPL]	Nt P-Grass	ROUGH-LEAVED RICE-GRASS
ORYCAN	9	Oryzopsis canadensis	T	5	[UPL]	Nt P-Grass	CANADIAN RICE-GRASS
ORYPUN	9	Oryzopsis pungens		5	[UPL]	Nt P-Grass	RICE-GRASS
ORYRAC	8	Oryzopsis racemosa		5	[UPL]	Nt P-Grass	RICE-GRASS
OSMCHI	5	Osmorhiza chilensis		5	[UPL]	Nt P-Forb	SWEET-CICELY
OSMCLI	4	Osmorhiza claytonii		4	FACU-	Nt P-Forb	HAIRY SWEET-CICELY
OSMDEP	9	Osmorhiza depauperata	T	5	[UPL]	Nt P-Forb	SWEET-CICELY
OSMLON	3	Osmorhiza longistylis		4	FACU-	Nt P-Forb	SMOOTH SWEET-CICELY
OSMCIN	5	Osmunda cinnamomea		-3	FACW	Nt Fern	CINNAMON FERN
OSMCLN	6	Osmunda claytoniana		-1	FAC+	Nt Fern	INTERRUPTED FERN

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
OSMREG	5	Osmunda regalis		-5	OBL	Nt Fern	ROYAL FERN
OSTVIR	5	Ostrya virginiana		4	FACU-	Nt Tree	IRONWOOD; HOP HORNBEAM
OXAACE	7	Oxalis acetosella		3	[FACU]	Nt P-Forb	NORTHERN WOOD-SORREL
OXACOR	*	OXALIS CORNICULATA		3	FACU	Ad P-Forb	CREEPING WOOD-SORREL
OXAFON	0	Oxalis fontana (O. europaea)		3	FACU	Nt P-Forb	YELLOW WOOD-SORREL
OXASTR	0	Oxalis stricta		3	[FACU]	Nt P-Forb	COMMON YELLOW WOOD-SORREL
OXAVIO	10	Oxalis violacea	T	5	[UPL]	Nt P-Forb	VIOLET WOOD-SORREL
OXYRIG	6	Oxypolis rigidior		-5	OBL	Nt P-Forb	COWBANE
PANQUI	10	Panax quinquefolius	T	5	[UPL]	Nt P-Forb	GINSENG
PANTRI	8	Panax trifolius		5	[UPL]	Nt P-Forb	DWARF GINSENG
PANAUB	8	Panicum auburne		5	[UPL]	Nt P-Grass	RED-BROWN PANIC GRASS
PANBOR	7	Panicum boreale		2	[FACU+]	Nt P-Grass	NORTHERN PANIC GRASS
PANCAL	5	Panicum calliphyllum		5	[UPL]	Nt P-Grass	PANIC GRASS
PANCAP	1	Panicum capillare		0	FAC	Nt A-Grass	WITCH GRASS
PANCLA	3	Panicum clandestinum		-3	[FACW]	Nt P-Grass	PANIC GRASS
PANCOL	7	Panicum columbianum		5	[UPL]	Nt P-Grass	PANIC GRASS
PANCOS	6	Panicum commonsianum		5	[UPL]	Nt A-Grass	PANIC GRASS
PANCOT	9	Panicum commutatum		0	[FAC]	Nt P-Grass	PANIC GRASS
PANDEP	4	Panicum depauperatum		5	[UPL]	Nt P-Grass	PANIC GRASS
PANDIF	0	Panicum dichotomiflorum		-2	FACW-	Nt A-Grass	PANIC GRASS
PANDIM	7	Panicum dichotomum		1	[FAC-]	Nt P-Grass	PANIC GRASS
PANFLE	8	Panicum flexile		-4	FACW+	Nt A-Grass	PANIC GRASS
PANGAT	4	Panicum gattingeri		0	[FAC]	Nt A-Grass	PANIC GRASS
PANIMP	3	Panicum implicatum		0	[FAC]	Nt P-Grass	PANIC GRASS
PANLAT	5	Panicum latifolium		3	[FACU]	Nt P-Grass	BROAD-LEAVED PANIC GRASS
PANLEI	10	Panicum leibergii	T	2	[FACU+]	Nt P-Grass	LEIBERG'S PANIC GRASS
PANLID	8	Panicum lindheimeri		-5	[OBL]	Nt P-Grass	PANIC GRASS
PANLIE	4	Panicum linearifolium		5	[UPL]	Nt P-Grass	SLENDER-LEAVED PANIC GRASS
PANLON	10	Panicum longifolium	T	-5	[OBL]	Nt P-Grass	LONG-LEAVED PANIC GRASS
PANMER	7	Panicum meridionale		5	[UPL]	Nt P-Grass	MAT PANIC GRASS
PANMIC	10	Panicum microcarpon	SC	5	[UPL]	Nt P-Grass	SMALL-FRUITED PANIC GRASS
PANMIL	*	PANICUM MILIACEUM		5	[UPL]	Ad A-Grass	BROOMCORN MILLET
PANOLI	5	Panicum oligoanthos		3	[FACU]	Nt P-Grass	PANIC GRASS
PANPER	10	Panicum perlongum		5	[UPL]	Nt P-Grass	PANIC GRASS
PANPHI	8	Panicum philadelphicum		3	[FACU]	Nt A-Grass	PHILADELPHIA PANIC GRASS
PANPOL	10	Panicum polyanthes	E	3	[FACU]	Nt P-Grass	PANIC GRASS
PANPRA	8	Panicum praecocius		5	[UPL]	Nt P-Grass	PANIC GRASS
PANRIG	7	Panicum rigidulum		-3	FACW	Nt P-Grass	PANIC GRASS
PANSPH	5	Panicum sphaerocarpon		3	[FACU]	Nt P-Grass	ROUND-FRUITED PANIC GRASS
PANSPR	9	Panicum spretum		-5	[OBL]	Nt P-Grass	PANIC GRASS
PANTUC	8	Panicum tuckermanii		-3	[FACW]	Nt A-Grass	TUCKERMAN PANIC GRASS
PANVER	10	Panicum verrucosum	T	-3	[FACW]	Nt A-Grass	WARTY PANIC GRASS
PANVIR	4	Panicum virgatum		-1	FAC+	Nt P-Grass	SWITCH GRASS
PANXAN	6	Panicum xanthophyllum		5	[UPL]	Nt P-Grass	PANIC GRASS
PAPORI	*	PAPAVER ORIENTALE		5	[UPL]	Ad P-Forb	ORIENTAL POPPY
PAPRHO	*	PAPAVER RHOEAS		5	[UPL]	Ad A-Forb	CORN POPPY
PAPSOM	*	PAPAVER SOMNIFERUM		5	[UPL]	Ad A-Forb	OPIUM POPPY
PARDIF	*	PARIETARIA DIFFUSA		5	[UPL]	Ad P-Forb	PELLITORY
PARPEN	2	Parietaria pensylvanica		3	FACU	Nt A-Forb	PELLITORY
PARGLA	8	Parnassia glauca		-5	OBL	Nt P-Forb	GRASS-OF-PARNASSUS

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
PARPAL	10	Parnassia palustris	T	-5	OBL	Nt P-Forb	MARSH GRASS-OF-PARNASSUS
PARPAR	10	Parnassia parviflora		-5	OBL	Nt P-Forb	GRASS-OF-PARNASSUS
PARCAN	8	Paronychia canadensis		5	[UPL]	Nt A-Forb	TALL FORKED CHICKWEED
PARFAS	8	Paronychia fastigiata	SC	5	[UPL]	Nt A-Forb	LOW FORKED CHICKWEED
PARHIS	*	PARTHENIUM HISPIDUM		5	[UPL]	Ad P-Forb	OZARK PARTHENIUM
PARHYS	*	PARTHENIUM HYSTEROPHORUS		5	[UPL]	Ad A-Forb	SANTA MARIA
PARINT	*	PARTHENIUM INTEGRIFOLIUM		5	[UPL]	Ad P-Forb	WILD QUININE
PARINS	4	Parthenocissus inserta		3	[FACU]	Nt W-Vine	THICKET CREEPER
PARQUI	5	Parthenocissus quinquefolia		1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PASCIL	4	Paspalum ciliatifolium		5	[UPL]	Nt P-Grass	HAIRY LENS GRASS
PASLAE	*	PASPALUM LAEVE		0	[FAC]	Ad P-Grass	SMOOTH LENS GRASS
PASSAT	*	PASTINACA SATIVA		5	[UPL]	Ad B-Forb	WILD PARSNIP
PEDCAN	10	Pedicularis canadensis		2	FACU+	Nt P-Forb	WOOD-BETONY
PEDLAN	8	Pedicularis lanceolata		-4	[FACW+]	Nt P-Forb	SWAMP-BETONY
PELATR	10	Pellaea atropurpurea	T	5	[UPL]	Nt Fern	PURPLE CLIFF-BRAKE
PELGLA	10	Pellaea glabella		5	[UPL]	Nt Fern	SMOOTH CLIFF-BRAKE
PELVIR	6	Peltandra virginica		-5	OBL	Nt P-Forb	ARROW-ARUM
PENCAL	2	Penstemon calycosus	T	3	FACU	Nt P-Forb	SMOOTH BEARD-TONGUE
PENDIG	2	Penstemon digitalis		1	FAC-	Nt P-Forb	FOXLGLOVE BEARD-TONGUE
PENGRA	10	Penstemon gracilis	E	5	[UPL]	Nt P-Forb	SLENDER BEARD-TONGUE
PENHIR	5	Penstemon hirsutus		5	[UPL]	Nt P-Forb	HAIRY BEARD-TONGUE
PENPAL	5	Penstemon pallidus	SC	5	[UPL]	Nt P-Forb	PALE BEARD-TONGUE
PENSED	3	Penthorum sedoides		-5	OBL	Nt P-Forb	DITCH STONECROP
PERFRU	*	PERILLA FRUCTESCENS		5	[UPL]	Ad A-Forb	PERILLA MINT
PETHYB	*	PETASITES HYBRIDUS		-5	[OBL]	Ad P-Forb	BUTTERFLY-DOCK
PETPAL	10	Petasites palmatus		-3	FACW	Nt P-Forb	SWEET-COLTSFOOT
PETSAG	10	Petasites sagittatus	T	-5	[OBL]	Nt P-Forb	SWEET-COLTSFOOT
PETPRO	*	PETORRHAGIA PROLIFERA		5	[UPL]	Ad A-Forb	CHILDING PINK
PETSAX	*	PETORRHAGIA SAXIFRAGA		5	[UPL]	Ad P-Forb	PINK
PETCRI	*	PETROSELINUM CRISPUM		5	[UPL]	Ad B-Forb	PARSLEY
PETXAT	*	PETUNIA XATKINSIANA		5	[UPL]	Ad A-Forb	PETUNIA
PHAFRA	8	Phacelia franklinii	T	5	[UPL]	Nt A-Forb	FRANKLIN'S PHACELIA
PHAPUR	5	Phacelia purshii		5	[UPL]	Nt A-Forb	MIAMI-MIST PHACELIA
PHATAN	*	PHACELIA TANACETIFOLIA		5	[UPL]	Ad A-Forb	SCORPION-WEED
PHAARU	0	Phalaris arundinacea		-4	FACW+	Nt P-Grass	REED CANARY GRASS
PHACAN	*	PHALARIS CANARIENSIS		3	FACU	Ad A-Grass	CANARY GRASS
PHAPOL	10	Phaseolus polystachios	SC	5	[UPL]	Nt P-Forb	WILD BEAN
PHAVUL	*	PHASEOLUS VULGARIS		5	[UPL]	Ad P-Forb	GREEN BEAN
PHICOR	*	PHILADELPHUS CORONARIUS		5	[UPL]	Ad Shrub	SWEET MOCK ORANGE
PHIPUB	*	PHILADELPHUS PUBESCENS		5	[UPL]	Ad Shrub	DOWNY MOCK ORANGE
PHIFAL	*	PHILADELPHUS XFALCONERI		5	[UPL]	Ad Shrub	MOCK ORANGE
PHLALP	10	Phleum alpinum	X	-3	FACW	Nt P-Grass	MOUNTAIN TIMOTHY
PHLPRA	*	PHLEUM PRATENSE		3	FACU	Ad P-Grass	TIMOTHY
PHLBIF	10	Phlox bifida	T	5	[UPL]	Nt P-Forb	CLEFT PHLOX
PHLDIV	5	Phlox divaricata		3	FACU	Nt P-Forb	WOODLAND PHLOX
PHLDRU	*	PHLOX DRUMMONDII		5	[UPL]	Ad A-Forb	SWEET WILLIAM PHLOX
PHLLAT	8	Phlox latifolia		4	[FACU-]	Nt P-Forb	MOUNTAIN PHLOX
PHLMAC	10	Phlox maculata	T	-4	FACW+	Nt P-Forb	SWEET WILLIAM PHLOX
PHLNIV	*	PHLOX NIVALIS		5	UPL	Ad P-Forb	TRAILING PHLOX
PHLPAN	*	PHLOX PANICULATA		3	FACU	Ad P-Forb	GARDEN PHLOX

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
PHLPIL	7	Phlox pilosa		1	FAC-	Nt P-Forb	PRAIRIE PHLOX
PHLSUB	*	PHLOX SUBULATA		5	[UPL]	Ad P-Forb	ROSE PINK
PHRAUS	0	Phragmites australis		-4	FACW+	Nt P-Grass	REED
PHRLEP	4	Phryma leptostachya		5	[UPL]	Nt P-Forb	LOPSEED
PHYLAN	6	Phyla lanceolata		-5	OBL	Nt P-Forb	FOGFRUIT
PHYALK	*	PHYSALIS ALKEKENGI		5	[UPL]	Ad P-Forb	CHINESE LANTERN PLANT
PHYHET	3	Physalis heterophylla		5	[UPL]	Nt P-Forb	CLAMMY GROUND-CHERRY
PHYLON	1	Physalis longifolia		5	[UPL]	Nt P-Forb	LONG-LEAVED GROUND-CHERRY
PHYPHI	*	PHYSALIS PHILADELPHICA		5	[UPL]	Ad P-Forb	TOMATILLO
PHYPUB	*	PHYSALIS PUBESCENS		5	[UPL]	Ad P-Forb	DOWNY GROUND-CHERRY
PHYVIG	4	Physalis virginiana		5	[UPL]	Nt P-Forb	VIRGINIA GROUND-CHERRY
PHYOPU	4	Physocarpus opulifolius		-2	FACW-	Nt Shrub	NINEBARK
PHYVIA	8	Physostegia virginiana		-3	FACW	Nt P-Forb	FALSE DRAGONHEAD
PHYAME	2	Phytolacca americana		1	FAC-	Nt P-Forb	POKEWEED
PICABI	*	PICEA ABIES		5	[UPL]	Ad Tree	NORWAY SPRUCE
PICGLA	3	Picea glauca		3	FACU	Nt Tree	WHITE SPRUCE
PICMAR	6	Picea mariana		-3	FACW	Nt Tree	BLACK SPRUCE
PICHIE	*	PICRIS HIERACIOIDES		5	[UPL]	Ad B-Forb	OX-TONGUE
PILFON	5	Pilea fontana		-3	FACW	Nt A-Forb	BOG CLEARWEED
PILPUM	5	Pilea pumila		-3	FACW	Nt A-Forb	CLEARWEED
PIMANI	*	PIMPINELLA ANISUM		5	[UPL]	Ad P-Forb	ANISE
PIMSAX	*	PIMPINELLA SAXIFRAGA		0	[FAC]	Ad P-Forb	BURNET-SAXIFRAGE
PINVUL	10	Pinguicula vulgaris	SC	-5	OBL	Nt P-Forb	BUTTERWORT
PINBAN	5	Pinus banksiana		3	FACU	Nt Tree	JACK PINE
PINNIG	*	PINUS NIGRA		5	[UPL]	Ad Tree	AUSTRIAN PINE
PINRES	6	Pinus resinosa		3	FACU	Nt Tree	RED PINE
PINSTR	3	Pinus strobus		3	FACU	Nt Tree	WHITE PINE
PINSYL	*	PINUS SYLVESTRIS		5	[UPL]	Ad Tree	SCOTCH PINE
PIPUNA	8	Piperia unalascensis (Habenaria u.)	SC	5	[UPL]	Nt P-Forb	ALASKA ORCHID
PISSAT	*	PISUM SATIVUM		5	[UPL]	Ad A-Forb	GARDEN PEA
PLAHIR	*	PLAGIOBOTHRYS HIRTUS		5	[UPL]	Ad A-Forb	PLAGIOBOTHRYS
PLAARE	*	PLANTAGO ARENARIA (P. PSYLLIUM)		5	[UPL]	Ad A-Forb	LEAFY-STEMMED PLANTAIN
PLAARI	*	PLANTAGO ARISTATA		5	[UPL]	Ad A-Forb	BUCKTHORN
PLACOR	10	Plantago cordata	E	-5	OBL	Nt P-Forb	HEART-LEAVED PLANTAIN
PLALAN	*	PLANTAGO LANCEOLATA		0	FAC	Ad P-Forb	ENGLISH PLANTAIN
PLAMAJ	*	PLANTAGO MAJOR		-1	FAC+	Ad P-Forb	COMMON PLANTAIN
PLAMED	*	PLANTAGO MEDIA		5	[UPL]	Ad P-Forb	HOARY PLANTAIN
PLAPAT	*	PLANTAGO PATAGONICA (P. PURSHII)		5	[UPL]	Ad A-Forb	WOOLLY PLANTAIN
PLARUG	0	Plantago rugelii		0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
PLAVIR	*	PLANTAGO VIRGINICA		4	FACU-	Ad A-Forb	DWARF PLANTAIN
PLABLE	10	Platanthera blephariglottis (Habenaria b.)		-5	OBL	Nt P-Forb	WHITE-FRINGED ORCHID
PLACIL	10	Platanthera ciliaris (Habenaria c.)	T	-3	FACW	Nt P-Forb	YELLOW-FRINGED ORCHID
PLACLA	6	Platanthera clavellata (Habenaria c.)		-4	[FACW+]	Nt P-Forb	SM. GREEN WOOD-ORCHID
PLADIL	10	Platanthera dilatata (Habenaria d.)		-3	FACW	Nt P-Forb	TALL WHITE BOG ORCHID
PLAFLA	10	Platanthera flava (Habenaria f.)		-3	FACW	Nt P-Forb	TUBERCLED ORCHID
PLAHOO	8	Platanthera hookeri (Habenaria h.)		-1	FAC+	Nt P-Forb	HOOKER'S ORCHID
PLAHYP	5	Platanthera hyperborea (Habenaria h.)		-4	FACW+	Nt P-Forb	TALL NORTHERN BOG ORCHID
PLALAC	6	Platanthera lacera (Habenaria l.)		-3	FACW	Nt P-Forb	GREEN-FRINGED ORCHID
PLALEU	10	Platanthera leucophaea (Habenaria l.)	E	-4	FACW+	Nt P-Forb	EASTERN PRAIRIE FRINGED ORCHID
PLAOBT	10	Platanthera obtusata (Habenaria o.)		-3	FACW	Nt P-Forb	BLUNT-LEAVED ORCHID

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
PLAORB	10	Platanthera orbiculata (Habenaria o.)		0	FAC	Nt P-Forb	LARGE ROUND-LEAVED ORCHID
PLAPSY	7	Platanthera psycodes (Habenaria p.)		-3	FACW	Nt P-Forb	SMALL PURPLE FRINGED ORCHID
PLAOCC	7	Platanus occidentalis		-3	FACW	Nt Tree	SYCAMORE
PLUODO	*	PLUCHEA ODORATA		-3	FACW	Ad A-Forb	SALTMARSH FLEABANE
POAALP	10	Poa alpina	T	3	FACU	Nt P-Grass	ALPINE BLUEGRASS
POAALS	9	Poa alsodes		-2	FACW-	Nt P-Grass	BLUEGRASS
POAANN	*	POA ANNUA		1	FAC-	Ad A-Grass	ANNUAL BLUEGRASS
POAARI	*	POA ARIDA		-2	[FACW-]	Ad P-Grass	BLUEGRASS
POAAUT	10	Poa autumnalis		0	FAC	Nt P-Grass	BLUEGRASS
POABUL	*	POA BULBOSA		0	[FAC]	Ad P-Grass	BLUEGRASS
POACAN	10	Poa canbyi	E	5	[UPL]	Nt P-Grass	CANBY'S BLUEGRASS
POACOM	*	POA COMPRESSA		2	FACU+	Ad P-Grass	CANADA BLUEGRASS
POAGLA	10	Poa glauca		5	[UPL]	Nt P-Grass	BLUEGRASS
POALAN	6	Poa languida		5	[UPL]	Nt P-Grass	BLUEGRASS
POANEM	5	Poa nemoralis		0	FAC	Nt P-Grass	BLUEGRASS
POAPAD	10	Poa paludigena	T	-5	OBL	Nt P-Grass	BOG BLUEGRASS
POAPAS	3	Poa palustris		-4	FACW+	Nt P-Grass	FOWL MEADOW GRASS
POAPRA	*	POA PRATENSIS		1	FAC-	Ad P-Grass	KENTUCKY BLUEGRASS
POASAL	5	Poa saltuensis		5	[UPL]	Nt P-Grass	BLUEGRASS
POASYL	8	Poa sylvestris		0	FAC	Nt P-Grass	WOODLAND BLUEGRASS
POATRI	*	POA TRIVIALIS		-3	FACW	Ad P-Grass	BLUEGRASS
PODPEL	3	Podophyllum peltatum		3	FACU	Nt P-Forb	MAY APPLE
POGOPH	10	Pogonia ophioglossoides		-5	OBL	Nt P-Forb	ROSE POGONIA
POLDOD	5	Polanisia dodecandra (P. graveolens)		5	[UPL]	Nt A-Forb	CLAMMY-WEED
POLREP	10	Polemonium reptans	T	0	FAC	Nt P-Forb	JACOB'S LADDER
POLCRU	9	Polygala cruciata	SC	-4	FACW+	Nt A-Forb	CROSS-LEAVED MILKWORT
POLINC	10	Polygala incarnata	X	4	FACU-	Nt A-Forb	PINK MILKWORT
POLPAU	7	Polygala paucifolia		3	FACU	Nt P-Forb	GAY-WINGS
POLPOL	9	Polygala polygama		4	FACU-	Nt B-Forb	RACEMED MILKWORT
POLSAN	4	Polygala sanguinea		3	FACU	Nt A-Forb	FIELD MILKWORT
POLSEN	8	Polygala senega		3	FACU	Nt P-Forb	SENECA SNAKEROOT
POLVER	5	Polygala verticillata		5	[UPL]	Nt A-Forb	WHORLED MILKWORT
POLVUL	*	POLYGALA VULGARIS		5	[UPL]	Ad P-Forb	MILKWORT
POLBIB	4	Polygonatum biflorum		3	FACU	Nt P-Forb	SOLOMON-SEAL
POLBIM	10	Polygonatum biflorum var. melleum	X	3	FACU	Nt P-Forb	HONEY-FLOWERED SOLOMON-SEAL
POLPUB	5	Polygonatum pubescens		5	[UPL]	Nt P-Forb	DOWNY SOLOMON SEAL
POLART	8	Polygonella articulata		5	UPL	Nt A-Forb	JOINTWEED
POLACH	0	Polygonum achoreum		5	[UPL]	Nt A-Forb	SMARTWEED
POLAMP	6	Polygonum amphibium		-5	OBL	Nt P-Forb	WATER SMARTWEED
POLARI	7	Polygonum arifolium		-5	OBL	Nt A-Forb	TEAR-THUMB
POLAVI	*	POLYGONUM AVICULARE		1	FAC-	Ad A-Forb	KNOTWEED
POLCAR	9	Polygonum careyi	T	-4	FACW+	Nt A-Forb	CAREY'S HEARTSEASE
POLCES	*	POLYGONUM CESPITOSUM		5	[UPL]	Ad A-Forb	CREEPING SMARTWEED
POLCIL	3	Polygonum cilinode		5	[UPL]	Nt P-Forb	FRINGED FALSE BUCKWHEAT
POLCON	*	POLYGONUM CONVULVULUS		1	FAC-	Ad A-Forb	FALSE BUCKWHEAT
POLCUS	*	POLYGONUM CUSPIDATUM		3	FACU	Ad P-Forb	JAPANESE KNOTWEED
POLDOU	5	Polygonum douglasii		3	FACU	Nt A-Forb	WESTERN SMARTWEED
POLERE	0	Polygonum erectum		3	FACU	Nt A-Forb	ERECT KNOTWEED
POLHYR	1	Polygonum hydropiper		-5	OBL	Nt A-Forb	WATER-PEPPER
POLHYS	5	Polygonum hydropiperoides		-5	OBL	Nt P-Forb	WATER-PEPPER

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
POLLAP	0	Polygonum lapathifolium		-4	FACW+	Nt A-Forb	NODDING SMARTWEED
POLORI	*	POLYGONUM ORIENTALE		5	[UPL]	Ad A-Forb	KISS-ME-OVER-THE-GARDEN-GATE
POLPEN	0	Polygonum pensylvanicum		-4	FACW+	Nt A-Forb	BIGSEED SMARTWEED
POLPER	*	POLYGONUM PERSICARIA		-3	FACW	Ad A-Forb	LADYS THUMB
POLPUN	5	Polygonum punctatum		-5	OBL	Nt A-Forb	SMARTWEED
POLRAM	7	Polygonum ramosissimum		1	FAC-	Nt A-Forb	BUSHY KNOTWEED
POLSAC	*	POLYGONUM SACHALINENSE		5	[UPL]	Ad P-Forb	GIANT KNOTWEED
POLSAG	5	Polygonum sagittatum		-5	OBL	Nt A-Forb	ARROW-LEAVED TEAR-THUMB
POLSCA	2	Polygonum scandens		0	FAC	Nt P-Forb	FALSE BUCKWHEAT
POLTEN	7	Polygonum tenue		5	[UPL]	Nt A-Forb	SLENDER KNOTWEED
POLVIM	4	Polygonum virginianum (Tovara v.)		0	FAC	Nt P-Forb	JUMPSEED
POLVIV	10	Polygonum viviparum	T	-3	FACW	Nt P-Forb	ALPINE BISTORT
POLCAN	6	Polymnia canadensis		5	[UPL]	Nt P-Forb	LEAFCUP
POLUVE	10	Polymnia uvedalia	T	5	[UPL]	Nt P-Forb	LARGE-FLOWERED LEAFCUP
POLVIG	8	Polypodium virginianum		5	[UPL]	Nt Fern	COMMON POLYPODY
POLMON	*	POLYPOGON MONSPELIENSIS		-5	OBL	Ad A-Grass	RABBITFOOT GRASS
POLACR	6	Polystichum acrostichoides		5	[UPL]	Nt Fern	CHRISTMAS FERN
POLBRA	8	Polystichum braunii		5	[UPL]	Nt Fern	BRAUNS HOLLY-FERN
POLLON	10	Polystichum lonchitis		5	[UPL]	Nt Fern	NORTHERN HOLLY-FERN
POLNUT	10	Polytaenia nuttallii	X	5	[UPL]	Nt P-Forb	PRAIRIE PARSLEY
PONCOR	8	Pontederia cordata		-5	OBL	Nt P-Forb	PICKEREL WEED
POPALB	*	POPULUS ALBA		5	[UPL]	Ad Tree	WHITE POPLAR
POPBAL	2	Populus balsamifera		-3	FACW	Nt Tree	BALSAM POPLAR
POPDEL	1	Populus deltoides		-1	FAC+	Nt Tree	COTTONWOOD
POPGRA	4	Populus grandidentata		3	FACU	Nt Tree	BIG-TOOTHED ASPEN
POPHET	10	Populus heterophylla	E	-5	OBL	Nt Tree	SWAMP COTTONWOOD
POPNI	*	POPULUS NIGRA var. ITALICA		5	[UPL]	Ad Tree	LOMBARDY POPLAR
POPTRE	1	Populus tremuloides		0	FAC	Nt Tree	QUAKING ASPEN
PORGRA	*	PORTULACA GRANDIFLORA		5	[UPL]	Ad A-Forb	ROSE-MOSS
POROLE	0	Portulaca oleracea		1	FAC-	Nt A-Forb	PURSLANE
POTALP	10	Potamogeton alpinus		-5	OBL	Nt P-Forb	PONDWEED
POTAMP	6	Potamogeton amplifolius		-5	OBL	Nt P-Forb	LARGE-LEAVED PONDWEED
POTBER	4	Potamogeton berchtoldii		-5	[OBL]	Nt P-Forb	BERCHTOLD'S PONDWEED
POTBIC	10	Potamogeton bicupulatus (P. capillaceus)	T	-5	[OBL]	Nt P-Forb	WATERTHREAD PONDWEED
POTCON	10	Potamogeton confervoides	SC	-5	OBL	Nt P-Forb	ALGA PONDWEED
POTCRI	*	POTAMOGETON CRISPUS		-5	OBL	Ad P-Forb	PONDWEED
POTEPI	8	Potamogeton epihydrus		-5	OBL	Nt P-Forb	RIBBON-LEAVED PONDWEED
POTFIL	7	Potamogeton filiformis		-5	OBL	Nt P-Forb	NARROW-LEAVED PONDWEED
POTFOL	4	Potamogeton foliosus		-5	OBL	Nt P-Forb	LEAFY PONDWEED
POTFRI	6	Potamogeton friesii		-5	OBL	Nt P-Forb	FRIES'S PONDWEED
POTGRM	5	Potamogeton gramineus		-5	OBL	Nt P-Forb	PONDWEED
POTHIL	9	Potamogeton hillii	T	-5	OBL	Nt P-Forb	HILL'S PONDWEED
POTILL	5	Potamogeton illinoensis		-5	OBL	Nt P-Forb	ILLINOIS PONDWEED
POTNAT	5	Potamogeton natans		-5	OBL	Nt P-Forb	PONDWEED
POTNOD	6	Potamogeton nodosus		-5	OBL	Nt P-Forb	PONDWEED
POTOAK	10	Potamogeton oakesianus		-5	OBL	Nt P-Forb	PONDWEED
POTOBT	10	Potamogeton obtusifolius		-5	OBL	Nt P-Forb	PONDWEED
POTPEC	3	Potamogeton pectinatus		-5	OBL	Nt P-Forb	SAGO PONDWEED
POTPER	6	Potamogeton perfoliatus		-5	OBL	Nt P-Forb	PONDWEED
POTPRA	8	Potamogeton praelongus		-5	OBL	Nt P-Forb	WHITE-STEMMED PONDWEED

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
POTPUL	10	Potamogeton pulcher	T	-5	OBL	Nt P-Forb	SPOTTED PONDWEED
POTPUS	4	Potamogeton pusillus		-5	OBL	Nt P-Forb	SMALL PONDWEED
POTRIC	5	Potamogeton richardsonii		-5	OBL	Nt P-Forb	RICHARDSON'S PONDWEED
POTROB	10	Potamogeton robbinsii		-5	OBL	Nt P-Forb	PONDWEED
POTSPI	8	Potamogeton spirillus		-5	OBL	Nt P-Forb	PONDWEED
POTSTR	6	Potamogeton strictifolius		-5	OBL	Nt P-Forb	PONDWEED
POTVAG	10	Potamogeton vaginatus		-5	OBL	Nt P-Forb	PONDWEED
POTVAS	10	Potamogeton vaseyi	T	-5	OBL	Nt P-Forb	VASEY'S PONDWEED
POTZOS	5	Potamogeton zosteriformis		-5	OBL	Nt P-Forb	FLAT-STEMMED PONDWEED
POTANS	5	Potentilla anserina		-4	FACW+	Nt P-Forb	SILVERWEED
POTARE	*	POTENTILLA ARGENTEA		3	FACU	Ad P-Forb	SILVERY CINQUEFOIL
POTARU	8	Potentilla arguta		4	FACU-	Nt P-Forb	TALL or PRAIRIE CINQUEFOIL
POTFRU	10	Potentilla fruticosa		-3	FACW	Nt Shrub	SHRUBBY CINQUEFOIL
POTGRC	*	POTENTILLA GRACILIS		5	[UPL]	Ad P-Forb	SLENDER CINQUEFOIL
POTHIP	*	POTENTILLA HIPPIANA		5	[UPL]	Ad P-Forb	CINQUEFOIL
POTINC	*	POTENTILLA INCLINATA		5	[UPL]	Ad P-Forb	CINQUEFOIL
POTNOR	0	Potentilla norvegica		0	FAC	Nt A-Forb	ROUGH CINQUEFOIL
POTPAL	7	Potentilla palustris		-5	OBL	Nt P-Forb	MARSH CINQUEFOIL
POTPAR	9	Potentilla paradoxa	T	-4	FACW+	Nt A-Forb	BUSHY CINQUEFOIL
POTPEN	9	Potentilla pensylvanica	T	5	[UPL]	Nt P-Forb	PRAIRIE CINQUEFOIL
POTREC	*	POTENTILLA RECTA		5	[UPL]	Ad P-Forb	ROUGH-FRUITED CINQUEFOIL
POTSIM	2	Potentilla simplex		4	FACU-	Nt P-Forb	OLD-FIELD CINQUEFOIL
POTTRI	10	Potentilla tridentata		5	[UPL]	Nt P-Forb	THREE-TOOTHED CINQUEFOIL
PREALB	5	Prenanthes alba		3	FACU	Nt P-Forb	WHITE LETTUCE
PREALT	5	Prenanthes altissima		3	FACU	Nt P-Forb	TALL WHITE LETTUCE
PRERAC	8	Prenanthes racemosa		-3	FACW	Nt P-Forb	GLAUCOUS WHITE LETTUCE
PRIMIS	10	Primula mistassinica		-3	FACW	Nt P-Forb	DWARF CANADIAN PRIMROSE
PRIVER	*	PRIMULA VERIS		-1	[FAC+]	Ad P-Forb	ENGLISH COWSLIP
PROLOU	*	PROBISCIDEA LOUISIANICA		5	[UPL]	Ad A-Forb	UNICORN PLANT
PROHOO	10	Prosartes hookeri (Disporum h.)	E	5	[UPL]	Nt P-Forb	FAIRY BELLS
PROMAC	10	Prosartes maculata (Disporum maculatum)	X	5	[UPL]	Nt P-Forb	NODDING MANDARIN
PROTRA	10	Prosartes trachycarpa (Disporum trachycarpum)	T	5	[UPL]	Nt P-Forb	NORTHERN FAIRY-BELLS
PROPAL	6	Proserpinaca palustris		-5	OBL	Nt P-Forb	MERMAID-WEED
PROPEC	9	Proserpinaca pectinata	E	-5	[OBL]	Nt P-Forb	MERMAID-WEED
PRUVUL	0	Prunella vulgaris		0	FAC	Nt P-Forb	LAWN PRUNELLA
PRUALD	8	Prunus alleghaniensis var. davisii	SC	5	[UPL]	Nt Shrub	ALLEGHANY PLUM
PRUAME	4	Prunus americana		5	[UPL]	Nt Tree	AMERICAN WILD PLUM
PRUAVI	*	PRUNUS AVIUM		5	[UPL]	Ad Tree	SWEET CHERRY
PRUCEF	*	PRUNUS CERASIFERA		5	[UPL]	Ad Tree	CHERRY PLUM
PRUCES	*	PRUNUS CERASUS		5	[UPL]	Ad Tree	SOUR CHERRY
PRUDOM	*	PRUNUS DOMESTICA		5	[UPL]	Ad Tree	COMMON PLUM
PRUMAH	*	PRUNUS MAHALEB		5	[UPL]	Ad Tree	PERFUMED CHERRY
PRUNIG	4	Prunus nigra		4	FACU-	Nt Tree	CANADA PLUM
PRUPEN	3	Prunus pensylvanica		4	FACU-	Nt Tree	PIN CHERRY
PRUPER	*	PRUNUS PERSICA		5	[UPL]	Ad Tree	PEACH
PRUPUM	8	Prunus pumila		5	UPL	Nt Shrub	SAND CHERRY
PRUSER	2	Prunus serotina		3	FACU	Nt Tree	WILD BLACK CHERRY
PRUSPI	*	PRUNUS SPINOSA		5	[UPL]	Ad Tree	BLACKTHORN
PRUTOM	*	PRUNUS TOMENTOSA		5	[UPL]	Ad Tree	NANKING CHERRY

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
PRUVIR	2	Prunus virginiana		1	FAC-	Nt Shrub	CHOKE CHERRY
PSINIT	10	Psilocarya nitens		-5	OBL	Nt A-Sedge	BALD-RUSH
PSISCI	10	Psilocarya scirpoides	T	-5	OBL	Nt A-Sedge	BALD-RUSH
PSOPSO	0	Psoralea psoralioides		5	[UPL]	Nt P-Forb	SAMPSON'S SNAKEROOT
PTETRI	4	Ptelea trifoliata		2	FACU+	Nt Shrub	HOP-TREE
PTEAQU	0	Pteridium aquilinum		3	FACU	Nt Fern	BRACKEN FERN
PTEAND	10	Pterospora andromedea	T	5	[UPL]	Nt P-Forb	GIANT'S BIRDS-NEST
PUCDIS	*	PUCCINELLIA DISTANS		-5	OBL	Ad P-Grass	ALKALI GRASS
PUCFER	6	Puccinellia fernaldii		-5	OBL	Nt P-Grass	PUCCINELLIA
PUCPAL	7	Puccinellia pallida		-5	OBL	Nt P-Grass	PUCCINELLIA
	*	PUERARIA LOBATA		5	[UPL]	Ad W-Vine	KUDZU
PYCMUT	10	Pycnanthemum muticum	T	-5	[OBL]	Nt P-Forb	BROAD-LEAVED MOUNTAIN MINT
PYCPIL	10	Pycnanthemum pilosum	T	5	[UPL]	Nt P-Forb	HAIRY MOUNTAIN MINT
PYCTEN	6	Pycnanthemum tenuifolium		0	[FAC]	Nt P-Forb	SLENDER MOUNTAIN MINT
PYCVER	10	Pycnanthemum verticillatum	SC	5	UPL	Nt P-Forb	WHORLED MOUNTAIN MINT
PYCVIR	5	Pycnanthemum virginianum		-4	FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
PYRASA	8	Pyrola asarifolia		-3	FACW	Nt P-Forb	PINK PYROLA
PYRCHL	8	Pyrola chlorantha		3	FACU	Nt P-Forb	SHINLEAF
PYRELL	6	Pyrola elliptica		5	[UPL]	Nt P-Forb	LARGE-LEAVED SHINLEAF
PYRMIN	10	Pyrola minor		-1	FAC+	Nt P-Forb	LESSER PYROLA
PYRROT	7	Pyrola rotundifolia		1	FAC-	Nt P-Forb	ROUND-LEAVED PYROLA
PYRCOM	*	PYRUS COMMUNIS		5	[UPL]	Ad Tree	PEAR
QUEALB	5	Quercus alba		3	FACU	Nt Tree	WHITE OAK
QUEBIC	8	Quercus bicolor		-4	FACW+	Nt Tree	SWAMP WHITE OAK
QUECOC	7	Quercus coccinea		5	[UPL]	Nt Tree	SCARLET OAK
QUEELL	4	Quercus ellipsoidalis		5	[UPL]	Nt Tree	HILLS OAK
QUEIMB	5	Quercus imbricaria		1	FAC-	Nt Tree	SHINGLE OAK
QUEMAC	5	Quercus macrocarpa		1	FAC-	Nt Tree	BUR OAK
QUEMUE	5	Quercus muehlenbergii		5	[UPL]	Nt Tree	CHINQUAPIN OAK
QUEPAS	8	Quercus palustris		-3	FACW	Nt Tree	PIN OAK
QUEPRD	7	Quercus prinoides		4	FACU-	Nt Tree	DWARF CHINQUAPIN OAK
QUEPRS	*	QUERCUS PRINUS		4	FACU-	Ad Tree	ROCK CHESTNUT OAK
QUERUB	5	Quercus rubra		3	FACU	Nt Tree	RED OAK
QUESHU	8	Quercus shumardii	SC	-2	[FACW-]	Nt Tree	SHUMARD OAK
QUEVEL	6	Quercus velutina		5	[UPL]	Nt Tree	BLACK OAK
QUEPAA	4	Quercus Xpalaeolithica (Q. coccinea X q. velutina)		5	[UPL]	Nt Tree	HYBRID OAK
RANABO	0	Ranunculus abortivus		-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RANACR	*	RANUNCULUS ACRIS		-2	FACW-	Ad P-Forb	TALL or COMMON BUTTERCUP
RANAMB	10	Ranunculus ambigens	T	-5	OBL	Nt P-Forb	SPEARWORT
RANBUL	*	RANUNCULUS BULBOSUS		-3	FACW	Ad P-Forb	BULBOUS BUTTERCUP
RANCYM	8	Ranunculus cymbalaria	T	-5	OBL	Nt P-Forb	SEASIDE CROWFOOT
RANFAS	10	Ranunculus fascicularis		3	FACU	Nt P-Forb	EARLY BUTTERCUP
RANFIC	*	RANUNCULUS FICARIA		-2	[FACW-]	Ad P-Forb	LESSER-CELANDINE
RANFLA	10	Ranunculus flabellaris		-5	OBL	Nt P-Forb	YELLOW WATER CROWFOOT
RANGME	10	Ranunculus gmelinii		-4	FACW+	Nt P-Forb	YELLOW WATER CROWFOOT
RANHIS	5	Ranunculus hispidus		0	FAC	Nt P-Forb	SWAMP BUTTERCUP
RANLAP	10	Ranunculus lapponicus	T	-5	OBL	Nt P-Forb	LAPLAND BUTTERCUP
RANLON	4	Ranunculus longirostris		-5	OBL	Nt P-Forb	WHITE WATER CROWFOOT
RANMAC	10	Ranunculus macounii	T	-5	OBL	Nt A-Forb	MACOUN'S BUTTERCUP

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
RANPEN	6	Ranunculus pensylvanicus		-5	OBL	Nt A-Forb	BRISTLY CROWFOOT
RANREC	5	Ranunculus recurvatus		-3	FACW	Nt A-Forb	HOOKEED CROWFOOT
RANREN	*	RANUNCULUS REPENS		-1	FAC+	Ad P-Forb	CREEPING BUTTERCUP
RANRET	8	Ranunculus reptans		-5	[OBL]	Nt P-Forb	CREEPING BUTTERCUP
RANRHO	9	Ranunculus rhomboideus	T	5	[UPL]	Nt P-Forb	PRAIRIE BUTTERCUP
RANSAR	*	RANUNCULUS SARDOUS		-4	[FACW+]	Ad A-Forb	PAPILLOSE BUTTERCUP
RANSCE	1	Ranunculus sceleratus		-5	OBL	Nt A-Forb	CURSED CROWFOOT
RAPRAP	*	RAPHANUS RAPHANISTRUM		5	[UPL]	Ad A-Forb	WILD RADISH
RAPSAT	*	RAPHANUS SATIVUS		5	[UPL]	Ad A-Forb	RADISH
RATCOL	*	RATIBIDA COLUMNIFERA		5	[UPL]	Ad P-Forb	LONG-HEADED CONEFLOWER
RATPIN	4	Ratibida pinnata		5	[UPL]	Nt P-Forb	YELLOW CONEFLOWER
RESLUT	*	RESEDA LUTEA		5	[UPL]	Ad B-Forb	MIGNONETTE
RHAALN	8	Rhamnus alnifolia		-5	OBL	Nt Shrub	ALDER-LEAVED BUCKTHORN
RHACAT	*	RHAMNUS CATHARTICA		3	FACU	Ad Tree	COMMON BUCKTHORN
RHAFRA	*	RHAMNUS FRANGULA		-1	FAC+	Ad Shrub	GLOSSY BUCKTHORN
RHAUTI	*	RHAMNUS UTILIS		5	[UPL]	Ad Shrub	BUCKTHORN
RHERHA	*	RHEUM RHAPONTICUM		5	[UPL]	Ad P-Forb	RHUBARB
RHEMAR	10	Rhexia mariana	T	-3	[FACW]	Nt P-Forb	MARYLAND MEADOW BEAUTY
RHEVIR	9	Rhexia virginica	SC	-5	OBL	Nt P-Forb	MEADOW BEAUTY
	*	RHODOTYPOS SCANDENS		5	[UPL]	Ad Shrub	JETBEAD
RHUARO	7	Rhus aromatica		5	[UPL]	Nt Shrub	FRAGRANT SUMAC
RHUCOP	3	Rhus copallina		5	[UPL]	Nt Shrub	WINGED SUMAC
RHUGLA	2	Rhus glabra		5	[UPL]	Nt Tree	SMOOTH SUMAC
RHUTYP	2	Rhus typhina		5	[UPL]	Nt Tree	STAGHORN SUMAC
RHUPUL	2	Rhus Xpulvinata		5	[UPL]	Nt Tree	HYBRID SUMAC
RHYALB	6	Rhynchospora alba		-5	OBL	Nt P-Sedge	BEAK-RUSH
RHYCAL	10	Rhynchospora capillacea		-5	OBL	Nt P-Sedge	BEAK-RUSH
RHYCAT	6	Rhynchospora capitellata		-5	OBL	Nt P-Sedge	BEAK-RUSH
RHYFUS	7	Rhynchospora fusca		-5	OBL	Nt P-Sedge	BEAK-RUSH
RHYGLO	10	Rhynchospora globularis	E	-3	FACW	Nt P-Sedge	GLOBE BEAK-RUSH
RHYMAC	9	Rhynchospora macrostachya	SC	-5	OBL	Nt P-Sedge	TALL BEAK-RUSH
RHYNIT	10	Rhynchospora nitens (Psilocarya n.)		-5	[OBL]	Nt A-Sedge	SHORT-BEAKED BALD RUSH
RIBAME	6	Ribes americanum		-3	FACW	Nt Shrub	WILD BLACK CURRANT
RIBCYN	4	Ribes cynosbati		5	[UPL]	Nt Shrub	PRICKLY or WILD GOOSEBERRY
RIBGLA	5	Ribes glandulosum		-3	FACW	Nt Shrub	SKUNK CURRANT
RIBHIR	6	Ribes hirtellum		-3	FACW	Nt Shrub	SWAMP GOOSEBERRY
RIBHUD	10	Ribes hudsonianum		-5	OBL	Nt Shrub	NORTHERN BLACK CURRANT
RIBLAC	6	Ribes lacustre		-3	FACW	Nt Shrub	SWAMP BLACK CURRANT
RIBNIG	*	RIBES NIGRUM		5	UPL	Ad Shrub	BLACK CURRANT
RIBODO	*	RIBES ODORATUM		1	FAC-	Ad Shrub	GOLDEN CURRANT
RIBOXY	9	Ribes oxycanthoides	SC	5	[UPL]	Nt Shrub	NORTHERN GOOSEBERRY
RIBRUB	*	RIBES RUBRUM		5	[UPL]	Ad Shrub	RED CURRANT
RIBTRI	6	Ribes triste		-5	OBL	Nt Shrub	SWAMP RED CURRANT
RICCOM	*	RICINUS COMMUNIS		4	FACU-	Ad A-Forb	CASTOR-BEAN
ROBHIS	*	ROBINIA HISPIDA		5	[UPL]	Ad Shrub	BRISTLY LOCUST
ROBPSE	*	ROBINIA PSEUDOACACIA		4	FACU-	Ad Tree	BLACK LOCUST
ROBVIS	*	ROBINIA VISCOSA		5	[UPL]	Ad Tree	CLAMMY LOCUST
RORCUR	*	RORIPPA CURVIPES		-3	[FACW]	Ad A-Forb	YELLOW CRESS
RORPAL	1	Rorippa palustris		-5	OBL	Nt A-Forb	YELLOW CRESS
RORSYL	*	RORIPPA SYLVESTRIS		-5	OBL	Ad P-Forb	CREEPING YELLOW CRESS

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
ROSACI	4	Rosa acicularis		3	FACU	Nt Shrub	WILD ROSE
ROSARK	4	Rosa arkansana		5	[UPL]	Nt Shrub	PRAIRIE ROSE
ROSBLA	3	Rosa blanda		3	FACU	Nt Shrub	WILD ROSE
ROSCAN	*	ROSA CANINA		5	[UPL]	Ad Shrub	DOG ROSE
ROSCAR	4	Rosa carolina		4	FACU-	Nt Shrub	PASTURE ROSE
ROSCEN	*	ROSA CENTIFOLIA		5	[UPL]	Ad Shrub	CABBAGE ROSE
ROSCIN	*	ROSA CINNAMOMEA		5	[UPL]	Ad Shrub	CINNAMON ROSE
ROSEGL	*	ROSA EGLANTERIA		5	[UPL]	Ad Shrub	SWEET BRIER
ROSGAL	*	ROSA GALLICA		5	[UPL]	Ad Shrub	FRENCH ROSE
ROSMUL	*	ROSA MULTIFLORA		3	FACU	Ad Shrub	MULTIFLORA ROSE
ROSPAL	5	Rosa palustris		-5	OBL	Nt Shrub	SWAMP ROSE
ROSRUG	*	ROSA RUGOSA		3	FACU	Ad Shrub	JAPANESE ROSE
ROSSET	5	Rosa setigera		2	FACU+	Nt Shrub	PRAIRIE ROSE
ROSSPI	*	ROSA SPINOSISSIMA		5	[UPL]	Ad Shrub	SCOTCH ROSE
ROSVIL	*	ROSA VILLOSA		5	[UPL]	Ad Shrub	ROSE
ROSVIR	8	Rosa virginiana		0	[FAC]	Nt Shrub	VIRGINIA ROSE
ROTRAM	8	Rotala ramosior	SC	-5	OBL	Nt A-Forb	TOOTH-CUP
RUBACA	10	Rubus acaulis	E	-5	OBL	Nt Shrub	DWARF RASPBERRY
RUBALL	1	Rubus allegheniensis		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBCAE	*	RUBUS CAESIUS		0	[FAC]	Ad Shrub	EUROPEAN DEWBERRY
RUBCAN	2	Rubus canadensis		5	[UPL]	Nt Shrub	DEWBERRY
RUBFLA	1	Rubus flagellaris		4	FACU-	Nt Shrub	NORTHERN DEWBERRY
RUBHIS	4	Rubus hispidus		-3	FACW	Nt Shrub	SWAMP DEWBERRY
RUBLAC	*	RUBUS LACINIATUS		5	[UPL]	Ad Shrub	CUT-LEAVED BLACKBERRY
RUBOCC	1	Rubus occidentalis		5	[UPL]	Nt Shrub	BLACK RASPBERRY
RUBODO	6	Rubus odoratus		5	[UPL]	Nt Shrub	FLOWERING RASPBERRY
RUBPAR	6	Rubus parviflorus		2	FACU+	Nt Shrub	THIMBLEBERRY
RUBPEN	2	Rubus pensylvanicus		1	[FAC-]	Nt Shrub	DEWBERRY
RUBPUB	4	Rubus pubescens		-4	FACW+	Nt P-Forb	DWARF RASPBERRY
RUBSET	3	Rubus setosus		-2	FACW-	Nt Shrub	BRISTLY BLACKBERRY
RUBSTR	2	Rubus strigosus (R. idaeus)		-2	FACW-	Nt Shrub	WILD RED RASPBERRY
RUDFUL	9	Rudbeckia fulgida (R. sullivantii)	SC	-5	[OBL]	Nt P-Forb	BLACK-EYED SUSAN
RUDHIR	1	Rudbeckia hirta		3	FACU	Nt P-Forb	BLACK-EYED SUSAN
RUDLAC	6	Rudbeckia laciniata		-4	FACW+	Nt P-Forb	CUT-LEAVED CONEFLOWER
RUDSUB	*	RUDBECKIA SUBTOMENTOSA		3	[FACU]	Ad P-Forb	SWEET CONEFLOWER
RUDTRI	5	Rudbeckia triloba		1	FAC-	Nt A-Forb	THREE-LOBED CONEFLOWER
RUEHUM	10	Ruellia humilis	T	4	[FACU-]	Nt P-Forb	HAIRY RUELLIA
RUESTR	10	Ruellia strepens	T	-1	FAC+	Nt P-Forb	SMOOTH RUELLIA
RUMACS	*	RUMEX ACETOSA		5	[UPL]	Ad P-Forb	GREEN SORREL
RUMACL	*	RUMEX ACETOSELLA		0	FAC	Ad P-Forb	SHEEP SORREL
RUMALT	2	Rumex altissimus		-2	FACW-	Nt P-Forb	PALE DOCK
RUMCRI	*	RUMEX CRISPUS		-1	FAC+	Ad P-Forb	CURLY DOCK
RUMLON	*	RUMEX LONGIFOLIUS		0	[FAC]	Ad B-Forb	DOCK
RUMMAR	5	Rumex maritimus		-4	FACW+	Nt A-Forb	GOLDEN DOCK
RUMOBT	*	RUMEX OBTUSIFOLIUS		-3	FACW	Ad P-Forb	BITTER DOCK
RUMOCC	8	Rumex occidentalis	E	-1	[FAC+]	Nt P-Forb	WESTERN DOCK
RUMORB	9	Rumex orbiculatus		-5	OBL	Nt P-Forb	GREAT WATER DOCK
RUMPAT	*	RUMEX PATIENTIA		5	UPL	Ad P-Forb	PATIENCE DOCK
RUMTHY	*	RUMEX THYRSIFLORUS		5	[UPL]	Ad P-Forb	DOCK
RUMTRI	1	Rumex triangulivalvis		-3	FACW	Nt P-Forb	DOCK

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
RUMVER	7	Rumex verticillatus		-5	OBL	Nt P-Forb	WATER DOCK
RUPMAR	10	Ruppia maritima	T	-5	OBL	Nt P-Forb	DITCH GRASS
SABANG	9	Sabatia angularis	T	-1	FAC+	Nt B-Forb	ROSE PINK
SAGNOD	10	Sagina nodosa	T	2	FACU+	Nt P-Forb	PEARLWORT
SAGPRO	*	SAGINA PROCUMBENS		-3	FACW	Ad P-Forb	PEARLWORT
SAGBRE	10	Sagittaria brevirostra		-5	OBL	Nt P-Forb	SHORT-BEAKED ARROWHEAD
SAGCUN	6	Sagittaria cuneata		-5	OBL	Nt P-Forb	ARUM-LEAVED ARROWHEAD
SAGGRA	10	Sagittaria graminea		-5	OBL	Nt P-Forb	GRASS-LEAVED ARROWHEAD
SAGLAT	1	Sagittaria latifolia		-5	OBL	Nt P-Forb	COMMON ARROWHEAD
SAGMON	8	Sagittaria montevidensis (Lophotocarpus calycinus)	T	-5	OBL	Nt A-Forb	ARROWHEAD
SAGRIG	6	Sagittaria rigida		-5	OBL	Nt P-Forb	STIFF ARROWHEAD
SALEUR	*	SALICORNIA EUROPAEA		-5	OBL	Ad A-Forb	GLASSWORT
SALALB	*	SALIX ALBA		-3	FACW	Ad Tree	WHITE WILLOW
SALAMY	3	Salix amygdaloides		-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALBEB	1	Salix bebbiana		-4	FACW+	Nt Shrub	BEBB'S WILLOW
SALCAN	9	Salix candida		-5	OBL	Nt Shrub	HOARY WILLOW
SALCIN	*	SALIX CINEREA		5	[UPL]	Ad Shrub	GRAY WILLOW
SALCOR	10	Salix cordata		-1	FAC+	Nt Shrub	SAND-DUNE WILLOW
SALDIS	1	Salix discolor		-3	FACW	Nt Shrub	PUSSY WILLOW
SALERI	2	Salix eriocephala		-3	FACW	Nt Shrub	WILLOW
SALEXI	1	Salix exigua (S. interior)		-5	OBL	Nt Shrub	SANDBAR WILLOW
SALFRA	*	SALIX FRAGILIS		-1	FAC+	Ad Tree	CRACK WILLOW
SALHUM	4	Salix humilis		3	FACU	Nt Shrub	PRAIRIE WILLOW
SALLUC	3	Salix lucida		-4	FACW+	Nt Shrub	SHINING WILLOW
SALMYR	9	Salix myricoides (S. glaucophylloides)		-3	FACW	Nt Shrub	BLUELEAF WILLOW
SALNIG	5	Salix nigra		-5	OBL	Nt Tree	BLACK WILLOW
SALPED	8	Salix pedicellaris		-5	OBL	Nt Shrub	BOG WILLOW
SALPEL	10	Salix pellita	SC	-3	FACW	Nt Shrub	SATINY WILLOW
SALPEN	*	SALIX PENTANDRA		5	[UPL]	Ad Tree	BAY-LEAVED WILLOW
SALPET	1	Salix petiolaris		-4	FACW+	Nt Shrub	SLENDER WILLOW
SALPLA	10	Salix planifolia	T	-5	OBL	Nt Shrub	TEA-LEAVED WILLOW
SALPUR	*	SALIX PURPUREA		-3	FACW	Ad Shrub	BASKET WILLOW
SALPYR	8	Salix pyrifolia		-4	FACW+	Nt Shrub	BALSAM WILLOW
SALSEC	6	Salix sericea		-5	OBL	Nt Shrub	SILKY WILLOW
SALSES	8	Salix serissima		-5	OBL	Nt Shrub	AUTUMN WILLOW
SALVIM	*	SALIX VIMINALIS		5	[UPL]	Ad Shrub	BASKET WILLOW
		* SALSOLA COLLINA		5	[UPL]	Ad A-Forb	SLENDER RUSSIAN THISTLE
SALKAL	*	SALSOLA KALI		3	FACU	Ad A-Forb	RUSSIAN THISTLE
SALAZU	*	SALVIA AZUREA		5	[UPL]	Ad P-Forb	BLUE SAGE
SALOFF	*	SALVIA OFFICINALIS		5	[UPL]	Ad B-Forb	SAGE; SALVIA
SALPRA	*	SALVIA PRATENSIS		5	[UPL]	Ad P-Forb	SAGE; SALVIA
SALREF	*	SALVIA REFLEXA		5	UPL	Ad A-Forb	ROCKY MOUNTAIN SAGE
SALSCL	*	SALVIA SCLAREA		5	[UPL]	Ad B-Forb	CLARY
SALMIN	*	SALVINIA MINIMA		-5	[OBL]	Ad Fern	WATER SPANGLES
SAMCAN	3	Sambucus canadensis		-2	FACW-	Nt Shrub	ELDERBERRY
SAMRAC	3	Sambucus racemosa		2	FACU+	Nt Shrub	RED-BERRIED ELDER
SAMPAR	5	Samolus parviflorus (S. floribundus)		-5	OBL	Nt P-Forb	WATER-PIMPERNEL
SANCAA	5	Sanguinaria canadensis		4	FACU-	Nt P-Forb	BLOODROOT
SANCAD	10	Sanguisorba canadensis	T	-4	FACW+	Nt P-Forb	AMERICAN BURNET

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
SANMIN	*	SANGUISORBA MINOR		0	FAC	Ad P-Forb	GARDEN or SALAD BURNET
SANCAS	8	Sanicula canadensis		2	FACU+	Nt B-Forb	BLACK SNAKEROOT
SANGRE	2	Sanicula gregaria		-1	FAC+	Nt P-Forb	BLACK SNAKEROOT
SANMAR	4	Sanicula marilandica		3	[FACU]	Nt P-Forb	BLACK SNAKEROOT
SANTRI	6	Sanicula trifoliata		5	[UPL]	Nt B-Forb	BLACK SNAKEROOT
SAPOCY	*	SAPONARIA OCYMOIDES		5	[UPL]	Ad P-Forb	SAPONARIA
SAPOFF	*	SAPONARIA OFFICINALIS		3	[FACU]	Ad P-Forb	BOUNCING BET
SARPUP	10	Sarracenia purpurea		-5	OBL	Nt P-Forb	PITCHER-PLANT
SARPUH	10	Sarracenia purpurea f. heterophylla	T	-5	OBL	Nt P-Forb	YELLOW PITCHER-PLANT
SASALB	5	Sassafras albidum		3	FACU	Nt Tree	SASSAFRAS
SATHOR	*	SATUREJA HORTENSIS		5	[UPL]	Ad A-Forb	SAVORY
SAUCER	9	Saururus cernuus		-5	OBL	Nt P-Forb	LIZARD'S-TAIL
SAXPAN	10	Saxifraga paniculata	T	5	[UPL]	Nt P-Forb	LIME-ENCUSTED SAXIFRAGE
SAXPEN	10	Saxifraga pensylvanica		-5	OBL	Nt P-Forb	SWAMP SAXIFRAGE
SAXTRI	10	Saxifraga tricuspidata	T	5	[UPL]	Nt P-Forb	PRICKLY SAXIFRAGE
SAXVIR	10	Saxifraga virginensis		1	FAC-	Nt P-Forb	EARLY SAXIFRAGE
SCHPAL	10	Scheuchzeria palustris		-5	OBL	Nt P-Forb	ARROW-GRASS
SCHPUR	5	Schizachne purpurascens		2	FACU+	Nt P-Grass	FALSE MELIC
SCHACU	5	Schoenoplectus acutus (Scirpus a.)		-5	OBL	Nt P-Sedge	HARDSTEM BULRUSH
SCHAME	10	Schoenoplectus americanus (Scirpus olneyi)	T	-5	[OBL]	Nt P-Sedge	OLNEYS BULRUSH
SCHHAL	10	Schoenoplectus hallii (Scirpus h.)	T	-5	OBL	Nt A-Sedge	HALL'S BULRUSH
SCHHET	10	Schoenoplectus heterochaetus (Scirpus h.)		-5	OBL	Nt P-Sedge	BULRUSH
SCHPUN	5	Schoenoplectus pungens (Scirpus americanus)		-5	OBL	Nt P-Sedge	THREE-SQUARE
SCHPUS	8	Schoenoplectus purshianus (Scirpus p.)		-5	[OBL]	Nt A-Sedge	PURSH'S TUFTED BULRUSH
SCHSMI	8	Schoenoplectus smithii (Scirpus s.)		-5	OBL	Nt A-Sedge	BULRUSH
SCHSUB	8	Schoenoplectus subterminalis (Scirpus s.)		-5	OBL	Nt P-Sedge	BULRUSH
SCHTAB	4	Schoenoplectus tabernaemontani (Scirpus validus)		-5	OBL	Nt P-Sedge	SOFTSTEM BULRUSH
SCHTOR	10	Schoenoplectus torreyi (Scirpus t.)	SC	-5	OBL	Nt P-Sedge	TORREY'S BULRUSH
SCHNUT	*	SCHRANKIA NUTTALLII		5	[UPL]	Ad P-Forb	CAT-CLAW
SCISIB	*	SCILLA SIBIRICA		5	[UPL]	Ad P-Forb	SQUILL
SCIATR	3	Scirpus atrovirens		-5	OBL	Nt P-Sedge	BULRUSH
SCICYP	5	Scirpus cyperinus		-5	OBL	Nt P-Sedge	WOOL-GRASS
SCIEXP	5	Scirpus expansus		-5	OBL	Nt P-Sedge	BULRUSH
SCIHAT	3	Scirpus hattorianus		-5	OBL	Nt P-Sedge	MOSQUITO BULRUSH
SCIMIC	5	Scirpus microcarpus		-5	OBL	Nt P-Sedge	BULRUSH
SCIPEN	3	Scirpus pendulus		-5	OBL	Nt P-Sedge	BULRUSH
SCLANN	*	SCLERANTHUS ANNUUS		3	FACU	Ad A-Forb	KNAWEL
SCLPER	*	SCLERANTHUS PERENNIS		5	[UPL]	Ad P-Forb	KNAWEL
SCLPAU	10	Scleria pauciflora	E	3	FACU	Nt P-Sedge	FEW-FLOWERED NUT-RUSH
SCLRET	10	Scleria reticularis	T	-5	[OBL]	Nt A-Sedge	NETTED NUT-RUSH
SCLTRI	10	Scleria triglomerata	SC	0	FAC	Nt P-Sedge	TALL NUT-RUSH
SCLVER	10	Scleria verticillata		-5	OBL	Nt A-Sedge	NUT-RUSH
SCLDUR	*	SCLEROCHLOA DURA		5	[UPL]	Ad A-Grass	FAIRGROUND GRASS
SCRLAN	5	Scrophularia lanceolata		2	FACU+	Nt P-Forb	EARLY FIGWORT
SCRMAR	5	Scrophularia marilandica		4	FACU-	Nt P-Forb	LATE FIGWORT
SCUELL	10	Scutellaria elliptica	SC	5	[UPL]	Nt B-Forb	HAIRY SKULLCAP
SCUGAL	5	Scutellaria galericulata		-5	OBL	Nt P-Forb	COMMON SKULLCAP
SCUINC	10	Scutellaria incana	X	5	[UPL]	Nt P-Forb	DOWNY SKULLCAP

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
SCULAT	5	Scutellaria lateriflora		-5	OBL	Nt P-Forb	MAD-DOG SKULLCAP
SCUNER	10	Scutellaria nervosa	T	5	[UPL]	Nt B-Forb	VEINED SKULLCAP
SCUOVA	10	Scutellaria ovata	X	3	FACU	Nt P-Forb	HEART-LEAVED SKULLCAP
SCUPAP	9	Scutellaria parvula	T	3	FACU	Nt P-Forb	SMALL SKULLCAP
SCUPAL	9	Scutellaria parvula var. leonardii	T	3	FACU	Nt P-Forb	SMALL SKULLCAP
SECCER	*	SECALE CEREALE		5	[UPL]	Ad A-Grass	ANNUAL RYE
SEDACR	*	SEDUM ACRE		5	[UPL]	Ad P-Forb	MOSSY STONECROP
SEDALB	*	SEDUM ALBUM		5	[UPL]	Ad P-Forb	STONECROP
SEDHIS	*	SEDUM HISPANICUM		5	[UPL]	Ad A-Forb	STONECROP
SEDSAR	*	SEDUM SARMENTOSUM		5	[UPL]	Ad P-Forb	STRINGY STONECROP
SEDSEX	*	SEDUM SEXANGULARE		5	[UPL]	Ad P-Forb	STONECROP
SEDSPU	*	SEDUM SPURIUM		5	[UPL]	Ad P-Forb	STONECROP
SEDEL	*	SEDUM TELEPHIUM		5	[UPL]	Ad P-Forb	LIVE FOREVER
SEDTER	*	SEDUM TERNATUM		5	[UPL]	Ad P-Forb	WILD STONECROP
SELECL	5	Selaginella eclipes		-4	[FACW+]	Nt Fern Ally	SELAGINELLA
SELRUP	8	Selaginella rupestris		5	[UPL]	Nt Fern Ally	SAND CLUB MOSS
SELSEL	10	Selaginella selaginoides		-4	FACW+	Nt Fern Ally	SPIKEMOSS
SENAUR	5	Senecio aureus		-3	FACW	Nt P-Forb	GOLDEN RAGWORT
SENCN	10	Senecio congestus	X	-4	FACW+	Nt A-Forb	MARSH-FLEABANE
SENGLA	0	Senecio glabellus		-4	[FACW+]	Nt A-Forb	YELLOWTOP
SENIND	10	Senecio indecorus	T	-3	FACW	Nt P-Forb	RAYLESS MOUNTAIN RAGWORT
SENJAC	*	SENECIO JACOBAEA		5	[UPL]	Ad B-Forb	TANSY RAGWORT
SENOBO	10	Senecio obovatus		4	FACU-	Nt P-Forb	ROUND-LEAVED RAGWORT
SENPAN	3	Senecio pauperulus		-1	FAC+	Nt P-Forb	BALSAM RAGWORT
SENPLA	5	Senecio plattensis		4	FACU-	Nt P-Forb	PRAIRIE RAGWORT
SENSYL	*	SENECIO SYLVATICUS		5	[UPL]	Ad A-Forb	WOODLAND RAGWORT
SENVUL	*	SENECIO VULGARIS		5	[UPL]	Ad A-Forb	COMMON GROUNDSEL
SETFAB	*	SETARIA FABERI		2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	*	SETARIA GLAUCA		0	FAC	Ad A-Grass	YELLOW FOXTAIL
SETITA	*	SETARIA ITALICA		3	FACU	Ad A-Grass	HUNGARIAN MILLET
SETVER	*	SETARIA VERTICILLATA		0	FAC	Ad A-Grass	BRISTLY FOXTAIL
SETVIR	*	SETARIA VIRIDIS		5	[UPL]	Ad A-Grass	GREEN FOXTAIL
SHEARG	*	SHEPHERDIA ARGENTEA		5	[UPL]	Ad Shrub	BUFFALO-BERRY
SHECAN	7	Shepherdia canadensis		5	[UPL]	Nt Shrub	SOAPBERRY
SHEARV	*	SHERARDIA ARVENSIS		5	[UPL]	Ad A-Forb	FIELD MADDER
SICANG	2	Sicyos angulatus		-2	FACW-	Nt A-Forb	BUR CUCUMBER
SIDHER	*	SIDA HERMAPHRODITA		3	[FACU]	Ad P-Forb	SIDA
SIDSPI	*	SIDA SPINOSA		3	FACU	Ad A-Forb	PRICKLY SIDA
SILANT	2	Silene antirrhina		5	[UPL]	Nt A-Forb	SLEEPY CATCHFLY
SILARM	*	SILENE ARMERIA		5	[UPL]	Ad A-Forb	SWEET WILLIAM CATCHFLY
SILCON	*	SILENE CONICA		5	[UPL]	Ad A-Forb	SILENE
SILCSE	*	SILENE CSEREII		5	[UPL]	Ad B-Forb	GLAUCOUS CAMPION
SILDIC	*	SILENE DICHOTOMA		5	[UPL]	Ad B-Forb	FORKED CATCHFLY
SILNOC	*	SILENE NOCTIFLORA		5	[UPL]	Ad A-Forb	NIGHT-FLOWERING CATCHFLY
SILNUT	*	SILENE NUTANS		5	[UPL]	Ad P-Forb	NOTTINGHAM CATCHFLY
SILPRA	*	SILENE PRATENSIS (LYCHNIS ALBA)		5	[UPL]	Ad A-Forb	WHITE CATCHFLY
SILSTE	10	Silene stellata	T	5	[UPL]	Nt P-Forb	STARRY CAMPION
SILVIR	10	Silene virginica	T	5	[UPL]	Nt P-Forb	FIRE PINK
SILVUL	*	SILENE VULGARIS (S. CUCUBALUS)		5	[UPL]	Ad P-Forb	BLADDER CAMPION
SILINT	10	Silphium integrifolium	T	5	[UPL]	Nt P-Forb	ROSWAY WEED

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
SILLAC	9	Silphium laciniatum	T	5	[UPL]	Nt P-Forb	COMPASS PLANT
SILPER	10	Silphium perfoliatum	T	-2	FACW-	Nt P-Forb	CUP PLANT
SILTER	6	Silphium terebinthinaceum		3	FACU	Nt P-Forb	PRAIRIE DOCK
SILMAR	*	SILYBUM MARIANUM		5	[UPL]	Ad B-Forb	BLESSED THISTLE
SISALT	*	SISYMBRIUM ALTISSIMUM		3	FACU	Ad A-Forb	TUMBLE MUSTARD
SISIRI	*	SISYMBRIUM IRIO		5	[UPL]	Ad A-Forb	LONDON ROCKET
SISLOE	*	SISYMBRIUM LOESELII		5	[UPL]	Ad A-Forb	TALL HEDGE MUSTARD
SISOFF	*	SISYMBRIUM OFFICINALE		5	[UPL]	Ad A-Forb	HEDGE MUSTARD
SISALB	7	Sisyrinchium albidum		3	FACU	Nt P-Forb	COMMON BLUE-EYED-GRASS
SISANG	4	Sisyrinchium angustifolium		-2	FACW-	Nt P-Forb	STOUT BLUE-EYED-GRASS
SISATL	9	Sisyrinchium atlanticum	T	-3	FACW	Nt P-Forb	EASTERN BLUE-EYED-GRASS
SISCAM	*	SISYRINCHIUM CAMPESTRE		5	[UPL]	Ad P-Forb	BLUE-EYED-GRASS
SISFAR	10	Sisyrinchium farwellii	X	-4	[FACW+]	Nt P-Forb	FARWELL'S BLUE-EYED-GRASS
SISHAS	10	Sisyrinchium hastile	X	-4	[FACW+]	Nt P-Forb	BLUE-EYED-GRASS
SISMON	4	Sisyrinchium montanum		-1	FAC+	Nt P-Forb	MOUNTAIN BLUE-EYED-GRASS
SISMUC	10	Sisyrinchium mucronatum		-2	FACW-	Nt P-Forb	SLENDER BLUE-EYED-GRASS
SISSTR	10	Sisyrinchium strictum	SC	-2	[FACW-]	Nt P-Forb	BLUE-EYED-GRASS
SIUSUA	5	Sium suave		-5	OBL	Nt P-Forb	WATER-PARSNIP
SMIRAC	5	Smilacina racemosa		3	FACU	Nt P-Forb	FALSE SPIKENARD
SMISTE	5	Smilacina stellata		1	FAC-	Nt P-Forb	STARRY FALSE SOLOMON-SEAL
SMITRI	10	Smilacina trifolia		-5	OBL	Nt P-Forb	FALSE MAYFLOWER
SMIECI	6	Smilax ecirrhata		5	[UPL]	Nt P-Forb	UPRIGHT CARRION-FLOWER
SMIHER	8	Smilax herbacea	SC	0	FAC	Nt P-Forb	CARRION-FLOWER
SMILL	4	Smilax illinoensis		5	[UPL]	Nt P-Forb	CARRION-FLOWER
SMILAS	5	Smilax lasioneura		5	[UPL]	Nt W-Vine	CARRION-FLOWER
SMIROT	6	Smilax rotundifolia		0	FAC	Nt W-Vine	COMMON GREEN-BRIER
SMITAM	5	Smilax tamnoides (S. hispida)		0	[FAC]	Nt W-Vine	BRISTLY GREEN-BRIER
SOLCAR	*	SOLANUM CAROLINENSE		4	FACU-	Ad P-Forb	HORSE NETTLE
SOLDUL	*	SOLANUM DULCAMARA		0	FAC	Ad P-Forb	BITTERSWEET NIGHTSHADE
SOLPHY	*	SOLANUM PHYSALIFOLIUM (S. SARACHOIDES)		5	[UPL]	Ad A-Forb	HAIRY NIGHTSHADE
SOLPTY	1	Solanum ptychanthum (S. nigrum)		5	[UPL]	Nt A-Forb	BLACK NIGHTSHADE
SOLROS	*	SOLANUM ROSTRATUM		5	[UPL]	Ad A-Forb	BUFFALO BUR
SOLTRI	*	SOLANUM TRIFLORUM		5	[UPL]	Ad A-Forb	THREE-FLOWERED NIGHTSHADE
SOLTUB	*	SOLANUM TUBEROSUM		5	[UPL]	Ad P-Forb	POTATO
SOLALT	1	Solidago altissima		3	FACU	Nt P-Forb	TALL GOLDENROD
SOLBIC	8	Solidago bicolor	SC	5	[UPL]	Nt P-Forb	SILVER ROD
SOLCAE	7	Solidago caesia		3	FACU	Nt P-Forb	BLUE-STEMMED GOLDENROD
SOLCAN	1	Solidago canadensis		3	FACU	Nt P-Forb	CANADA GOLDENROD
SOLFLE	6	Solidago flexicaulis		3	FACU	Nt P-Forb	BROAD-LEAVED GOLDENROD
SOLGIG	3	Solidago gigantea		-3	FACW	Nt P-Forb	LATE GOLDENROD
SOLHIS	3	Solidago hispida		5	[UPL]	Nt P-Forb	WHITE GOLDENROD
SOLHOU	10	Solidago houghtonii	T	-5	OBL	Nt P-Forb	HOUGHTON'S GOLDENROD
SOLJUN	3	Solidago juncea		5	[UPL]	Nt P-Forb	EARLY GOLDENROD
SOLMIS	6	Solidago missouriensis	T	5	[UPL]	Nt P-Forb	MISSOURI GOLDENROD
SOLNEM	2	Solidago nemoralis		5	[UPL]	Nt P-Forb	OLD-FIELD GOLDENROD
SOLOHI	8	Solidago ohioensis		-5	OBL	Nt P-Forb	OHIO GOLDENROD
SOLPAT	6	Solidago patula		-5	OBL	Nt P-Forb	SWAMP GOLDENROD
SOLPTA	6	Solidago ptarmicoides		5	[UPL]	Nt P-Forb	UPLAND WHITE GOLDENROD
SOLRID	6	Solidago riddellii		-5	OBL	Nt P-Forb	RIDDELL'S GOLDENROD

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
SOLRIG	5	Solidago rigida		4	FACU-	Nt P-Forb	STIFF GOLDENROD
SOLRUG	3	Solidago rugosa		-1	FAC+	Nt P-Forb	ROUGH GOLDENROD
SOLSEM	*	SOLIDAGO SEMPERVIRENS		-2	[FACW-]	Ad P-Forb	SEASIDE GOLDENROD
SOLSIM	10	Solidago simplex		3	[FACU]	Nt P-Forb	GILLMAN'S GOLDENROD
SOLSPE	5	Solidago speciosa		5	[UPL]	Nt P-Forb	SHOWY GOLDENROD
SOLULI	4	Solidago uliginosa		-5	OBL	Nt P-Forb	BOG GOLDENROD
SOLULM	5	Solidago ulmifolia		5	[UPL]	Nt P-Forb	ELM-LEAVED GOLDENROD
SONARV	*	SONCHUS ARVENSIS (S. ULIGINOSUS)		1	FAC-	Ad P-Forb	PERENNIAL SOW THISTLE
SONASP	*	SONCHUS ASPER		0	FAC	Ad A-Forb	PRICKLY SOW THISTLE
SONOLE	*	SONCHUS OLERACEUS		3	FACU	Ad A-Forb	COMMON SOW THISTLE
SONULI	*	SONCHUS ULIGINOSUS		-2	[FACW-]	Ad P-Forb	SWAMP SOW THISTLE
SORSOR	*	SORBARIA SORBIFOLIA		5	[UPL]	Ad Shrub	FALSE SPIRAEA
SORAME	4	Sorbus americana		-1	FAC+	Nt Tree	AMERICAN MOUNTAIN-ASH
SORAUC	*	SORBUS AUCUPARIA		5	[UPL]	Ad Tree	EUROPEAN MOUNTAIN-ASH
SORDEC	4	Sorbus decora		3	[FACU]	Nt Tree	MOUNTAIN-ASH
SORNUT	6	Sorghastrum nutans		2	FACU+	Nt P-Grass	INDIAN GRASS
SORBIC	*	SORGHUM BICOLOR		5	[UPL]	Ad A-Grass	SORGHUM
SORHAL	*	SORGHUM HALEPENSE		3	FACU	Ad P-Grass	JOHNSON GRASS
SPAAME	6	Sparganium americanum		-5	OBL	Nt P-Forb	AMERICAN BUR-REED
SPAAND	6	Sparganium androcladum		-5	OBL	Nt P-Forb	BUR-REED
SPAANG	10	Sparganium angustifolium		-5	[OBL]	Nt P-Forb	NARROW-LEAVED BUR-REED
SPACHL	6	Sparganium chlorocarpum		-5	OBL	Nt P-Forb	GREEN-FRUITED BUR-REED
SPAEUR	5	Sparganium eurycarpum		-5	OBL	Nt P-Forb	COMMON BUR-REED
SPAFLU	10	Sparganium fluctuans		-5	OBL	Nt P-Forb	BUR-REED
SPAMIN	8	Sparganium minimum		-5	OBL	Nt P-Forb	SMALL BUR-REED
SPAGRA	*	SPARTINA GRACILIS		-3	[FACW]	Ad P-Grass	SLENDER CORDGRASS
SPAPAT	*	SPARTINA PATENS		-3	FACW	Ad P-Grass	SALT-MEADOW CORDGRASS
SPAPEC	5	Spartina pectinata		-4	FACW+	Nt P-Grass	CORDGRASS
SPEPER	6	Specularia perfoliata (Triodanis p.)		0	[FAC]	Nt A-Forb	VENUS'S LOOKING GLASS
SPEARV	*	SPERGULA ARVENSIS		5	[UPL]	Ad A-Forb	SPURREY
SPEMAR	*	SPERGULARIA MARINA		-5	OBL	Ad A-Forb	SANT SPURREY
SPEMED	*	SPERGULARIA MEDIA		3	FACU	Ad A-Forb	SALT SPURREY
SPERUB	*	SPERGULARIA RUBRA		3	FACU	Ad A-Forb	SAND SPURREY
SPHINT	4	Sphenopholis intermedia		0	[FAC]	Nt P-Grass	SLENDER WEDGEGRASS
SPHNIT	8	Sphenopholis nitida		5	[UPL]	Nt P-Grass	SHINING WEDGEGRASS
SPHOBT	8	Sphenopholis obtusata		0	FAC	Nt P-Grass	PRAIRIE WEDGEGRASS
SPIALB	4	Spiraea alba		-4	FACW+	Nt Shrub	MEADOWSWEET
SPIJAP	*	SPIRAEA JAPONICA		5	[UPL]	Ad Shrub	JAPANESE SPIRAEA
SPIISAL	*	SPIRAEA SALICIFOLIA		-5	[OBL]	Ad Shrub	SPIRAEA
SPITOM	5	Spiraea tomentosa		-3	FACW	Nt Shrub	STEEPLEBUSH
SPIVAN	*	SPIRAEA XVANHOUTTEI		5	[UPL]	Ad Shrub	BRIDAL-WREATH
SPICAS	8	Spiranthes casei		3	[FACU]	Nt P-Forb	CASES LADIES'-TRESSES
SPICER	4	Spiranthes cernua		-2	FACW-	Nt P-Forb	NODDING LADIES'-TRESSES
SPILAC	8	Spiranthes lacera		-1	FAC+	Nt P-Forb	SLENDER LADIES'-TRESSES
SPILUC	7	Spiranthes lucida		-4	FACW+	Nt P-Forb	SHINING LADIES'-TRESSES
SPIMAG	9	Spiranthes magnicamporum		-3	[FACW]	Nt P-Forb	PRAIRIE LADIES'-TRESSES
SPIOCH	8	Spiranthes ochroleuca	SC	3	[FACU]	Nt P-Forb	YELLOW LADIES'-TRESSES
SPIOVA	9	Spiranthes ovalis	T	2	[FACU+]	Nt P-Forb	OVAL LADIES'-TRESSES
SPIROM	10	Spiranthes romanzoffiana		-4	FACW+	Nt P-Forb	HOODED LADIES'-TRESSES
SPITUB	10	Spiranthes tuberosa		5	[UPL]	Nt P-Forb	LITTLE LADIES'-TRESSES

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
SPIPOL	6	<i>Spirodela polyrhiza</i>		-5	OBL	Nt A-Forb	GREAT DUCKWEED
SPOASP	*	<i>SPOROBOLUS ASPER</i>		5	[UPL]	Ad P-Grass	ROUGH DROPSEED
SPOCLA	9	<i>Sporobolus clandestinus</i>	SC	5	[UPL]	Nt P-Grass	ROUGH RUSH-GRASS
SPOCRY	3	<i>Sporobolus cryptandrus</i>		4	FACU-	Nt P-Grass	SAND DROPSEED
SPOHET	10	<i>Sporobolus heterolepis</i>	SC	4	FACU-	Nt P-Grass	PRAIRIE DROPSEED
SPOIND	*	<i>SPOROBOLUS INDICUS</i>		5	[UPL]	Ad P-Grass	SMUT-GRASS
SPONEG	2	<i>Sporobolus neglectus</i>		5	[UPL]	Nt A-Grass	SMALL RUSH GRASS
SPOVAG	2	<i>Sporobolus vaginiflorus</i>		5	[UPL]	Nt A-Grass	SHEATHED RUSH GRASS
STAHYS	10	<i>Stachys hyssopifolia</i>		-4	FACW+	Nt P-Forb	HYSSOP HEDGE NETTLE
STAPAL	5	<i>Stachys palustris</i>		-5	OBL	Nt P-Forb	WOUNDWORT
STATEN	5	<i>Stachys tenuifolia</i>		-5	OBL	Nt P-Forb	SMOOTH HEDGE NETTLE
STATRI	9	<i>Staphylea trifolia</i>		0	[FAC]	Nt Shrub	BLADDERNUT
STEBOR	10	<i>Stellaria borealis</i>		-5	[OBL]	Nt P-Forb	NORTHERN STITCHWORT
STECRA	10	<i>Stellaria crassifolia</i>	T	0	[FAC]	Nt P-Forb	FLESHY STITCHWORT
STEGRN	*	<i>STELLARIA GRAMINEA</i>		5	[UPL]	Ad P-Forb	STARWORT
STELOF	5	<i>Stellaria longifolia</i>		-4	FACW+	Nt P-Forb	LONG-LEAVED CHICKWEED
STELOP	10	<i>Stellaria longipes</i>	SC	-5	OBL	Nt P-Forb	STARWORT
STEMED	*	<i>STELLARIA MEDIA</i>		3	FACU	Ad A-Forb	COMMON CHICKWEED
STEPAL	*	<i>STELLARIA PALLIDA</i>		5	[UPL]	Ad A-Forb	LEAST CHICKWEED
STEGRM	*	<i>STENANTHIUM GRAMINEUM</i>		0	FAC	Ad P-Forb	FEATHERBELLS
STIAVE	10	<i>Stipa avenacea</i>		4	FACU-	Nt P-Grass	BLACK OATGRASS
STICOM	*	<i>STIPA COMATA</i>		5	[UPL]	Ad P-Grass	NEEDLE-AND-THREAD
STISPA	10	<i>Stipa spartea</i>		5	[UPL]	Nt P-Grass	PORCUPINE GRASS
STRAMP	8	<i>Streptopus amplexifolius</i>		-1	FAC+	Nt P-Forb	TWISTED-STALK
STRROS	5	<i>Streptopus roseus</i>		0	FAC	Nt P-Forb	ROSE TWISTED-STALK
STRHEL	8	<i>Strophostyles helvula</i>	SC	-1	FAC+	Nt A-Forb	WILD BEAN
STYDIP	10	<i>Stylophorum diphyllum</i>		5	[UPL]	Nt P-Forb	WOOD POPPY
SUACAL	*	<i>SUAEDA CALCEOLIFORMIS</i>		-3	[FACW]	Ad A-Forb	SEA-BLITE
SUBAQU	10	<i>Subularia aquatica</i>	E	-5	OBL	Nt A-Forb	AWLWORT
SUCINF	*	<i>SUCCISELLA INFLEXA</i>		1	FAC-	Ad P-Forb	SOUTHERN SUCCISELLA
SYMALB	5	<i>Symphoricarpos albus</i>		4	FACU-	Nt Shrub	SNOWBERRY
SYMOC	4	<i>Symphoricarpos occidentalis</i>		5	[UPL]	Nt Shrub	WOLFBERRY
SYMORB	*	<i>SYMPHORICARPOS ORBICULATUS</i>		3	FACU	Ad Shrub	CORALBERRY
SYMASP	*	<i>SYMPHYTUM ASPERUM</i>		5	[UPL]	Ad P-Forb	ROUGH COMFREY
SYMOFF	*	<i>SYMPHYTUM OFFICINALE</i>		5	[UPL]	Ad P-Forb	COMMON COMFREY
SYMFOE	6	<i>Symplocarpus foetidus</i>		-5	OBL	Nt P-Forb	SKUNK-CABBAGE
SYRVUL	*	<i>SYRINGA VULGARIS</i>		5	[UPL]	Ad Shrub	COMMON LILAC
TAEINT	8	<i>Taenidia integerrima</i>		5	[UPL]	Nt P-Forb	YELLOW-PIMPERNEL
TAMPAR	*	<i>TAMARIX PARVIFLORA</i>		5	[UPL]	Ad Shrub	TAMARISK
TANHUR	10	<i>Tanacetum huronense</i>	T	4	[FACU-]	Nt P-Forb	LAKE HURON TANSY
TANVUL	*	<i>TANACETUM VULGARE</i>		5	[UPL]	Ad P-Forb	GARDEN TANSY
TARERY	*	<i>TARAXACUM ERYTHROSPERMUM</i>		5	[UPL]	Ad P-Forb	RED-SEEDED DANDELION
TAROFF	*	<i>TARAXACUM OFFICINALE</i>		3	FACU	Ad P-Forb	COMMON DANDELION
TARPAL	*	<i>TARAXACUM PALUSTRE</i>		3	[FACU]	Ad P-Forb	MARSH DANDELION
TAXCAN	5	<i>Taxus canadensis</i>		3	FACU	Nt Shrub	CANADIAN YEW
TEENUD	*	<i>TEESDALIA NUDICAULIS</i>		5	[UPL]	Ad A-Forb	SHEPHERD'S CRESS
TEPVIR	10	<i>Tephrosia virginiana</i>		5	[UPL]	Nt P-Forb	GOATS-RUE
TEUCAN	4	<i>Teucrium canadense</i>		-2	FACW-	Nt P-Forb	WOOD SAGE
THADAS	3	<i>Thalictrum dasycarpum</i>		-2	FACW-	Nt P-Forb	PURPLE MEADOW-RUE
THADIO	6	<i>Thalictrum dioicum</i>		2	FACU+	Nt P-Forb	EARLY MEADOW-RUE

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
	*	THALICTRUM PUBESCENS		0	[FAC]	Ad P-Forb	KING OF THE MEADOW
THAREV	9	Thalictrum revolutum		0	FAC	Nt P-Forb	WAXY MEADOW-RUE
THAVEC	9	Thalictrum venulosum var. confine	SC	-2	[FACW-]	Nt P-Forb	VEINY MEADOW-RUE
THABAR	10	Thaspium barbinode		5	[UPL]	Nt P-Forb	MEADOW-PARSNIP
THATRI	8	Thaspium trifoliatum		2	[FACU+]	Nt P-Forb	MEADOW-PARSNIP
THEFIL	*	THELESPERMA FILIFOLIUM		5	[UPL]	Ad P-Forb	THELESPERMA
THEMEG	*	THELESPERMA MEGAPOTAMICUM		5	[UPL]	Ad P-Forb	THELESPERMA
THEHEX	8	Thelypteris hexagonoptera		1	FAC-	Nt Fern	BROAD BEECH-FERN
THENOV	5	Thelypteris noveboracensis		-1	FAC+	Nt Fern	NEW YORK FERN
THEPAL	2	Thelypteris palustris		-4	[FACW+]	Nt Fern	MARSH FERN
THEPHE	5	Thelypteris phegopteris		5	[UPL]	Nt Fern	NORTHERN BEECH-FERN
THLARV	*	THLASPI ARVENSE		5	[UPL]	Ad A-Forb	PENNY CRESS
THUOCC	4	Thuja occidentalis		-3	FACW	Nt Tree	ARBOR VITAE
THYMAR	*	THYMUS MARSCHALLIANUS		5	[UPL]	Ad P-Forb	THYME
THYPUL	*	THYMUS PULEGIOIDES		5	[UPL]	Ad P-Forb	THYME
TIACOR	9	Tiarella cordifolia		1	FAC-	Nt P-Forb	FOAMFLOWER
TILAME	5	Tilia americana		3	FACU	Nt Tree	BASSWOOD
TIPDIS	10	Tipularia discolor	T	4	FACU-	Nt P-Forb	CRANE-FLY ORCHID
TOFGLU	10	Tofieldia glutinosa		-5	OBL	Nt P-Forb	FALSE ASPHODEL
TOFPUS	10	Tofieldia pusilla	T	-4	FACW+	Nt P-Forb	FALSE ASPHODEL
TOMAU	10	Tomanthera auriculata	X	5	[UPL]	Nt A-Forb	EARED FALSE FOXGLOVE
TORJAP	*	TORILIS JAPONICA		5	[UPL]	Ad A-Forb	HEDGE-PARSLEY
TORNOD	*	TORILIS NODOSA		5	[UPL]	Ad A-Forb	HEDGE-PARSLEY
TOXRAR	2	Toxicodendron radicans		-1	FAC+	Nt W-Vine	POISON-IVY
TOXRAN	2	Toxicodendron radicans ssp. negundo		-1	FAC+	Nt W-Vine	POISON-IVY
TOXRYD	3	Toxicodendron rydbergii		0	FAC	Nt W-Vine	POISON-IVY
TOXVER	6	Toxicodendron vernix		-5	OBL	Nt Shrub	POISON SUMAC
TRAAMM	*	TRACHYSPERMUM AMMI		5	[UPL]	Ad A-Forb	AJOWAN
TRABRA	10	Tradescantia bracteata	X	4	FACU-	Nt P-Forb	LONG-BRACTED SPIDERWORT
TRAOHI	5	Tradescantia ohiensis		2	FACU+	Nt P-Forb	COMMON SPIDERWORT
TRAVIR	9	Tradescantia virginiana	SC	5	[UPL]	Nt P-Forb	VIRGINIA SPIDERWORT
TRADUB	*	TRAGOPOGON DUBIUS		5	[UPL]	Ad B-Forb	GOAT'S BEARD
TRAPOR	*	TRAGOPOGON PORRIFOLIUS		5	[UPL]	Ad B-Forb	VEGETABLE-OYSTER
TRAPRA	*	TRAGOPOGON PRATENSIS		5	[UPL]	Ad B-Forb	COMMON GOAT'S BEARD
TRIFRA	6	Triadenum fraseri (Hypericum f.)		-5	OBL	Nt P-Forb	MARSH ST. JOHN'S-WORT
TRIVIG	10	Triadenum virginicum (Hypericum v.)		-5	OBL	Nt P-Forb	MARSH ST. JOHN'S-WORT
TRITER	*	TRIBULUS TERRESTRIS		5	[UPL]	Ad A-Forb	CALTROP
TRIALP	10	Trichophorum alpinum (Scirpus hudsonianus)		-5	[OBL]	Nt P-Sedge	BULRUSH
TRICES	10	Trichophorum cespitosum (Scirpus cespitosus)		-5	OBL	Nt P-Sedge	BULRUSH
TRICLI	10	Trichophorum clintonii (Scirpus c.)	SC	4	FACU-	Nt P-Sedge	CLINTON'S BULRUSH
TRIBRA	8	Trichostema brachiatum	T	5	[UPL]	Nt A-Forb	FALSE PENNYROYAL
TRIDIC	8	Trichostema dichotomum	T	5	[UPL]	Nt A-Forb	BASTARD PENNYROYAL
TRIFLA	3	Tridens flavus		5	[UPL]	Nt P-Grass	PURPLETOP
TRIBOR	5	Trientalis borealis		-1	FAC+	Nt P-Forb	STARFLOWER
TRIARV	*	TRIFOLIUM ARVENSE		5	[UPL]	Ad A-Forb	RABBITFOOT CLOVER
TRIAUM	*	TRIFOLIUM AUREUM (T. AGRARIUM)		5	[UPL]	Ad A-Forb	HOP CLOVER
TRICAM	*	TRIFOLIUM CAMPESTRE		5	[UPL]	Ad A-Forb	LOW HOP CLOVER
TRIDEP	*	TRIFOLIUM DEPAUPERATUM		5	[UPL]	Ad A-Forb	CLOVER

APPENDIX C: MICHIGAN PLANTS DATABASE - 2001

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
TRIDUB	*	TRIFOLIUM DUBIUM		3	FACU	Ad A-Forb	LITTLE HOP CLOVER
TRIFUC	*	TRIFOLIUM FUCATUM		5	[UPL]	Ad A-Forb	CLOVER
TRIHYP	*	TRIFOLIUM HYBRIDUM		1	FAC-	Ad P-Forb	ALSIKE CLOVER
TRIINC	*	TRIFOLIUM INCARNATUM		5	[UPL]	Ad A-Forb	CRIMSON CLOVER
TRIPRA	*	TRIFOLIUM PRATENSE		2	FACU+	Ad P-Forb	RED CLOVER
TRIREP	*	TRIFOLIUM REPENS		2	FACU+	Ad P-Forb	WHITE CLOVER
TRIMAR	8	Triglochin maritimum		-5	OBL	Nt P-Forb	COMMON BOG ARROW-GRASS
TRIPAL	8	Triglochin palustre		-5	OBL	Nt P-Forb	SLENDER BOG ARROW-GRASS
TRICER	5	Trillium cernuum		0	FAC	Nt P-Forb	NODDING TRILLIUM
TRIERE	7	Trillium erectum		1	[FAC-]	Nt P-Forb	STINKING BENJAMIN
TRIFLE	7	Trillium flexipes		1	FAC-	Nt P-Forb	DROOPING TRILLIUM
TRIGRA	5	Trillium grandiflorum		5	[UPL]	Nt P-Forb	COMMON TRILLIUM
TRINIV	10	Trillium nivale	T	5	[UPL]	Nt P-Forb	SNOW TRILLIUM
TRIREC	8	Trillium recurvatum	T	4	FACU-	Nt P-Forb	RED TRILLIUM
TRISES	9	Trillium sessile	T	4	FACU-	Nt P-Forb	TOADSHADE
TRIUND	10	Trillium undulatum	E	4	FACU-	Nt P-Forb	PAINTED TRILLIUM
TRIVID	10	Trillium viride	X	5	[UPL]	Nt P-Forb	GREEN TRILLIUM
TRIAUN	5	Triosteum aurantiacum		5	[UPL]	Nt P-Forb	HORSE-GENTIAN
TRIPER	5	Triosteum perfoliatum		5	[UPL]	Nt P-Forb	HORSE-GENTIAN
TRITRI	10	Triphora trianthophora	T	4	FACU-	Nt P-Forb	NODDING POGONIA
TRIPUR	6	Triplasis purpurea	SC	5	[UPL]	Nt A-Grass	SAND GRASS
TRIDAC	*	TRIPSACUM DACTYLOIDES		-1	FAC+	Ad P-Grass	GAMA GRASS
TRIMEL	10	Trisetum melicoides		-3	FACW	Nt P-Grass	TRISETUM
TRISPI	10	Trisetum spicatum	SC	1	FAC-	Nt P-Grass	DOWNY OATGRASS
TRIAES	*	TRITICUM AESTIVUM		5	[UPL]	Ad A-Grass	WHEAT
TSUCAN	5	Tsuga canadensis		3	FACU	Nt Tree	HEMLOCK
TUSFAR	*	TUSSILAGO FARFARA		3	FACU	Ad P-Forb	COLTSFOOT
TYPANG	*	TYPHA ANGUSTIFOLIA		-5	OBL	Ad P-Forb	NARROW-LEAVED CAT-TAIL
TYPLAT	1	Typha latifolia		-5	OBL	Nt P-Forb	BROAD-LEAVED CAT-TAIL
TYPGLA	*	TYPHA XGLAUCA		-5	OBL	Ad P-Forb	HYBRID CAT-TAIL
ULMAME	1	Ulmus americana		-2	FACW-	Nt Tree	AMERICAN ELM
	*	ULMUS GLABRA		-1	[FAC+]	Ad Tree	WYCH ELM
ULMPUM	*	ULMUS PUMILA		5	[UPL]	Ad Tree	SIBERIAN ELM
ULMRUB	2	Ulmus rubra		0	FAC	Nt Tree	SLIPPERY ELM
ULMTHO	4	Ulmus thomasii		-1	FAC+	Nt Tree	ROCK ELM
URTDIO	1	Urtica dioica		-1	FAC+	Nt P-Forb	NETTLE
URTURE	*	URTICA URENS		5	[UPL]	Ad A-Forb	EUROPEAN NETTLE
UTRCOR	10	Utricularia cornuta		-5	OBL	Nt A-Forb	HORNED BLADDERWORT
UTRGEM	8	Utricularia geminiscapa		-5	[OBL]	Nt P-Forb	BOG BLADDERWORT
UTRGIB	8	Utricularia gibba		-5	OBL	Nt P-Forb	HUMPED BLADDERWORT
UTRINT	10	Utricularia intermedia		-5	OBL	Nt P-Forb	FLAT-LEAVED BLADDERWORT
UTRMIN	10	Utricularia minor		-5	OBL	Nt P-Forb	SMALL BLADDERWORT
UTRPUR	10	Utricularia purpurea		-5	OBL	Nt P-Forb	PURPLE BLADDERWORT
UTRRAD	10	Utricularia radiata (U. inflata)	E	-5	[OBL]	Nt A-Forb	FLOATING BLADDERWORT
UTRRES	10	Utricularia resupinata		-5	OBL	Nt A-Forb	SMALL PURPLE BLADDERWORT
UTRSUB	10	Utricularia subulata	T	-5	[OBL]	Nt A-Forb	ZIGZAG BLADDERWORT
UTRVUL	6	Utricularia vulgaris		-5	[OBL]	Nt P-Forb	GREAT BLADDERWORT
UVUGRA	5	Uvularia grandiflora		5	[UPL]	Nt P-Forb	BELL WORT
UVUSES	5	Uvularia sessilifolia		1	FAC-	Nt P-Forb	MERRYBELLS
VACHIS	*	VACCARIA HISPANICA		5	[UPL]	Ad A-Forb	COW HERB

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
VACANG	4	Vaccinium angustifolium		3	FACU	Nt Shrub	BLUEBERRY
VACCES	9	Vaccinium cespitosum	T	3	FACU	Nt Shrub	DWARF BILBERRY
VACCOR	6	Vaccinium corymbosum		-3	FACW	Nt Shrub	SMOOTH Highbush BLUEBERRY
VACMAC	8	Vaccinium macrocarpon		-5	OBL	Nt Shrub	LARGE CRANBERRY
VACMEM	8	Vaccinium membranaceum		5	[UPL]	Nt Shrub	BILBERRY
VACMYR	4	Vaccinium myrtilloides		-2	FACW-	Nt Shrub	CANADA BLUEBERRY
VACOVA	9	Vaccinium ovalifolium		3	FACU	Nt Shrub	TALL BILBERRY
VACOXY	8	Vaccinium oxycoccos		-5	OBL	Nt Shrub	SMALL CRANBERRY
VACPAL	7	Vaccinium pallidum		5	[UPL]	Nt Shrub	BLUEBERRY
VACULI	10	Vaccinium uliginosum	T	-3	[FACW]	Nt Shrub	BOG-BILBERRY
VACVIT	10	Vaccinium vitis-idaea	E	0	FAC	Nt Shrub	LINGONBERRY
VALCIL	10	Valeriana ciliata	T	-5	[OBL]	Nt P-Forb	COMMON VALERIAN
VALOFF	*	VALERIANA OFFICINALIS		2	[FACU+]	Ad P-Forb	GARDEN HELIOTROPE
VALULI	10	Valeriana uliginosa		-4	[FACW+]	Nt P-Forb	BOG VALERIAN
VALCHE	8	Valerianella chenopodiifolia	T	1	[FAC-]	Nt A-Forb	GOOSEFOOT CORN SALAD
VALLOC	*	VALERIANELLA LOCUSTA		5	[UPL]	Ad A-Forb	EUROPEAN CORN SALAD
VALUMB	8	Valerianella umblicata	T	-3	[FACW]	Nt A-Forb	KANKAKEE CORN SALAD
VALAME	7	Vallisneria americana		-5	OBL	Nt P-Forb	EEL GRASS
VERBLA	*	VERBASCUM BLATTARIA		4	FACU-	Ad B-Forb	MOTH MULLEIN
VERDEN	*	VERBASCUM DENSIFLORUM		5	[UPL]	Ad B-Forb	MULLEIN
VERLYC	*	VERBASCUM LYCHNITIS		5	[UPL]	Ad B-Forb	WHITE MULLEIN
VERPHL	*	VERBASCUM PHLOMOIDES		5	[UPL]	Ad B-Forb	CLASPING-LEAVED MULLEIN
VERTHA	*	VERBASCUM THAPSUS		5	[UPL]	Ad B-Forb	COMMON MULLEIN
VERBRA	*	VERBENA BRACTEATA		3	FACU	Ad A-Forb	CREEPING VERVAIN
VERCAN	*	VERBENA CANADENSIS		5	[UPL]	Ad P-Forb	CANADIAN VERVAIN
VERHAS	4	Verbena hastata		-4	FACW+	Nt P-Forb	BLUE VERVAIN
VERSIM	6	Verbena simplex		5	[UPL]	Nt P-Forb	NARROW-LEAVED VERVAIN
VERSTR	4	Verbena stricta		5	[UPL]	Nt P-Forb	HOARY VERVAIN
VERURT	4	Verbena urticifolia		-1	FAC+	Nt P-Forb	WHITE VERVAIN
VERALT	4	Verbesina alternifolia		-3	FACW	Nt P-Forb	WINGSTEM
VERENC	*	VERBESINA ENCELIOIDES		5	[UPL]	Ad A-Forb	GOLDEN CROWNBEARD
VERGIG	3	Vernonia gigantea (V. altissima)		0	FAC	Nt P-Forb	TALL IRONWEED
VERMIS	4	Vernonia missurica		-1	FAC+	Nt P-Forb	MISSOURI IRONWEED
VERANA	4	Veronica anagallis-aquatica		-5	[OBL]	Nt B-Forb	WATER SPEEDWELL
VERARV	*	VERONICA ARVENSIS		5	[UPL]	Ad A-Forb	CORN SPEEDWELL
VERAUS	*	VERONICA AUSTRIACA		5	[UPL]	Ad P-Forb	SPEEDWELL
VERBEB	*	VERONICA BECCABUNGA		-5	OBL	Ad P-Forb	BROOKLIME
VERBEA	10	Veronica beccabunga var. americana		-5	OBL	Nt P-Forb	AMERICAN BROOKLIME
VERCHA	*	VERONICA CHAMAEDRYS		5	[UPL]	Ad A-Forb	GERMANDER SPEEDWELL
VERDIL	*	VERONICA DILLENII		5	[UPL]	Ad A-Forb	SPEEDWELL
VERFIL	*	VERONICA FILIFORMIS		5	[UPL]	Ad P-Forb	SLENDER SPEEDWELL
VERLON	*	VERONICA LONGIFOLIA		5	[UPL]	Ad P-Forb	LONG-LEAVED SPEEDWELL
VEROFF	*	VERONICA OFFICINALIS		5	[UPL]	Ad P-Forb	COMMON SPEEDWELL
VERPEG	0	Veronica peregrina		-4	FACW+	Nt A-Forb	PURSLANE SPEEDWELL or NECKWEED
VERPES	*	VERONICA PERSICA		5	[UPL]	Ad A-Forb	BIRDS EYE
VERPOL	*	VERONICA POLITA		5	[UPL]	Ad A-Forb	SPEEDWELL
VERSCU	6	Veronica scutellata		-5	OBL	Nt P-Forb	MARSH SPEEDWELL
VERSER	0	Veronica serpyllifolia		-3	FACW	Nt P-Forb	THYME-LEAVED SPEEDWELL
VERVER	*	VERONICA VERNA		5	[UPL]	Ad A-Forb	SPRING CORN SPEEDWELL
VERVIR	8	Veronicastrum virginicum		0	FAC	Nt P-Forb	CULVER'S ROOT

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ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
VIBACE	6	Viburnum acerifolium		5	[UPL]	Nt Shrub	MAPLE-LEAVED ARROW-WOOD
VIBCAS	6	Viburnum cassinoides		-3	FACW	Nt Shrub	NORTHERN HAW
VIBDEN	6	Viburnum dentatum (V. recognitum)		-2	FACW-	Nt Shrub	SMOOTH ARROW-WOOD
VIBEDU	10	Viburnum edule	T	-3	FACW	Nt Shrub	SQUASHBERRY
VIBLAN	*	VIBURNUM LANTANA		5	[UPL]	Ad Shrub	WAYFARING TREE
VIBLEN	4	Viburnum lentago		-1	FAC+	Nt Shrub	NANNYBERRY
VIBOPO	*	VIBURNUM OPULUS		0	[FAC]	Ad Shrub	EUROPEAN Highbush Cranberry
VIBOPA	5	Viburnum opulus var. americanum		-3	[FACW]	Nt Shrub	Highbush Cranberry
VIBPLI	*	VIBURNUM PLICATUM		5	[UPL]	Ad Shrub	JAPANESE SNOWBALL
VIBPRU	7	Viburnum prunifolium	SC	3	FACU	Nt Shrub	BLACK HAW
VIBRAF	5	Viburnum rafinesquianum		5	[UPL]	Nt Shrub	Downy Arrow-wood
VICAME	5	Vicia americana		5	[UPL]	Nt P-Forb	AMERICAN VETCH
VICANG	*	VICIA ANGUSTIFOLIA (SATIVA NIGRA)		4	[FACU-]	Ad A-Forb	NARROW-LEAVED VETCH
VICCAR	8	Vicia caroliniana		5	[UPL]	Nt P-Forb	PALE or WOOD VETCH
VICCRA	*	VICIA CRACCA		5	[UPL]	Ad A-Forb	BIRD VETCH
VICGRA	*	VICIA GRANDIFLORA		5	[UPL]	Ad A-Forb	LARGE-FLOWERED VETCH
VICHIR	*	VICIA HIRSUTA		5	[UPL]	Ad A-Forb	HAIRY VETCH
VICSAT	*	VICIA SATIVA		4	FACU-	Ad A-Forb	COMMON VETCH
VICSEP	*	VICIA SEPIUM		5	[UPL]	Ad P-Forb	HEDGE VETCH
VICTET	*	VICIA TETRASPERMA		5	[UPL]	Ad A-Forb	SPARROW VETCH
VICVIL	*	VICIA VILLOSA		5	[UPL]	Ad A-Forb	HAIRY VETCH
VIGUNG	*	VIGNA UNGUICULATA		5	[UPL]	Ad A-Forb	COMMON COWPEA
VINMIN	*	VINCA MINOR		5	[UPL]	Ad Shrub	PERIWINKLE
VINNIG	*	VINCETOXICUM NIGRUM (CYNANCHUM N.)		5	[UPL]	Ad P-Forb	BLACK SWALLOW-WORT
VINROS	*	VINCETOXICUM ROSSICUM (CYNANCHUM MEDIUM)		5	[UPL]	Ad P-Forb	WHITE SWALLOW-WORT
VIOADU	4	Viola adunca		1	FAC-	Nt P-Forb	SAND VIOLET
VIOAFF	2	Viola affinis		-3	FACW	Nt P-Forb	LE CONTE'S VIOLET
VIOARV	*	VIOLA ARVENSIS		5	[UPL]	Ad A-Forb	FIELD PANSY
VIOBLA	5	Viola blanda		-2	FACW-	Nt P-Forb	SWEET WHITE VIOLET
VIOCAN	5	Viola canadensis		5	[UPL]	Nt P-Forb	CANADA VIOLET
VIOCON	3	Viola conspersa		-2	FACW-	Nt P-Forb	DOG VIOLET
VIOCUC	5	Viola cucullata		-5	OBL	Nt P-Forb	MARSH VIOLET
VIOEPI	10	Viola epipsila	T	-5	[OBL]	Nt P-Forb	NORTHERN MARSH VIOLET
VIOLAN	8	Viola lanceolata		-5	OBL	Nt P-Forb	LANCE-LEAVED VIOLET
VIOMAC	6	Viola macloskeyi (V. pallens)		-5	[OBL]	Nt P-Forb	SMOOTH WHITE VIOLET
VIOMIS	4	Viola missouriensis		0	[FAC]	Nt P-Forb	MISSOURI VIOLET
VIONEP	8	Viola nephrophylla		-4	FACW+	Nt P-Forb	NORTHERN BOG VIOLET
VIONOV	10	Viola novae-angliae	T	-5	OBL	Nt P-Forb	NEW ENGLAND BLUE VIOLET
VIOODO	*	VIOLA ODORATA		5	[UPL]	Ad P-Forb	ENGLISH or SWEET VIOLET
VIOPAL	5	Viola palmata		5	[UPL]	Nt P-Forb	WOOD VIOLET
VIOPET	9	Viola pedata		5	[UPL]	Nt P-Forb	BIRDFOOT VIOLET
VIOPEF	10	Viola pedatifida	T	4	FACU-	Nt P-Forb	PRAIRIE VIOLET
VIOPUB	4	Viola pubescens		4	FACU-	Nt P-Forb	YELLOW VIOLET
VIOREN	6	Viola renifolia		-3	FACW	Nt P-Forb	KIDNEY-LEAVED VIOLET
VIOROS	6	Viola rostrata		3	FACU	Nt P-Forb	LONG-SPURRED VIOLET
VIOSAG	8	Viola sagittata		-2	FACW-	Nt P-Forb	ARROW-LEAVED VIOLET
VIOSEL	7	Viola selkirkii		5	[UPL]	Nt P-Forb	GREAT-SPURRED VIOLET
VIOSOR	1	Viola sororia		1	FAC-	Nt P-Forb	COMMON BLUE VIOLET

FLORISTIC QUALITY ASSESSMENT FOR MICHIGAN

ACRONYM	C	SCIENTIFIC NAME	ST	W	WET	PHYS	COMMON NAME
VIOSTR	5	<i>Viola striata</i>		-3	FACW	Nt P-Forb	CREAM VIOLET
VIOTRI	*	<i>VIOLA TRICOLOR</i>		5	[UPL]	Ad A-Forb	JOHNNY-JUMP-UP
VIOPRI	5	<i>Viola Xprimulifolia</i>		-4	[FACW+]	Nt P-Forb	PRIMROSE-LEAVED VIOLET
VITAES	6	<i>Vitis aestivalis</i>		3	FACU	Nt W-Vine	SUMMER GRAPE
VITLAB	7	<i>Vitis labrusca</i>		3	FACU	Nt W-Vine	FOX GRAPE
VITRIP	3	<i>Vitis riparia</i>		-2	FACW-	Nt W-Vine	RIVERBANK GRAPE
VITVUL	8	<i>Vitis vulpina</i>	T	-2	FACW-	Nt W-Vine	FROST GRAPE
WALFRA	6	<i>Waldsteinia fragarioides</i>		5	[UPL]	Nt P-Forb	BARREN-STRAWBERRY
WISFRU	9	<i>Wisteria frutescens</i>	T	5	[UPL]	Nt P-Forb	WISTERIA
WISSIN	*	<i>WISTERIA SINENSIS</i>		5	[UPL]	Ad P-Forb	CHINESE WISTERIA
WOLCOL	5	<i>Wolffia columbiana</i>		-5	OBL	Nt A-Forb	COMMON WATER MEAL
WOLPAP	10	<i>Wolffia papulifera (W. brasiliensis)</i>	T	-5	OBL	Nt P-Forb	POINTED WATER MEAL
WOLPUN	5	<i>Wolffia punctata</i>		-5	OBL	Nt A-Forb	DOTTED WATER MEAL
WOOALP	10	<i>Woodsia alpina</i>	T	5	[UPL]	Nt Fern	NORTHERN WOODSIA
WOOILV	10	<i>Woodsia ilvensis</i>		5	[UPL]	Nt Fern	RUSTY WOODSIA
WOOOBT	10	<i>Woodsia obtusa</i>	T	5	[UPL]	Nt Fern	CLIFF FERN
WOOORE	10	<i>Woodsia oregana</i>		5	[UPL]	Nt Fern	OREGON WOODSIA
WOOARE	10	<i>Woodwardia areolata</i>	X	-5	OBL	Nt Fern	NETTED CHAIN-FERN
WOOVIR	10	<i>Woodwardia virginica</i>		-5	OBL	Nt Fern	VIRGINIA CHAIN-FERN
XANSPI	*	<i>XANTHIUM SPINOSUM</i>		3	FACU	Ad A-Forb	SPINY COCKLEBUR
XANSTR	*	<i>XANTHIUM STRUMARIUM</i>		0	FAC	Ad A-Forb	COMMON COCKLEBUR
XYRDIF	8	<i>Xyris difformis</i>		-5	OBL	Nt P-Forb	YELLOW-EYED-GRASS
XYRMON	10	<i>Xyris montana</i>		-5	OBL	Nt P-Forb	YELLOW-EYED-GRASS
XYRTOR	10	<i>Xyris torta</i>		-5	OBL	Nt P-Forb	YELLOW-EYED-GRASS
YUCFIL	*	<i>YUCCA FILAMENTOSA</i>		5	[UPL]	Ad Shrub	YUCCA
ZANPAL	6	<i>Zannichellia palustris</i>		-5	OBL	Nt P-Forb	HORNED PONDWEED
ZANAME	3	<i>Zanthoxylum americanum</i>		5	[UPL]	Nt Shrub	PRICKLY-ASH
ZEAMAY	*	<i>ZEA MAYS</i>		5	[UPL]	Ad A-Grass	INDIAN CORN; MAIZE
ZIGGLA	10	<i>Zigadenus glaucus (Z. elegans)</i>		-3	FACW	Nt P-Forb	WHITE CAMAS
ZIZAQU	9	<i>Zizania aquatica var. aquatica</i>	T	-5	OBL	Nt A-Grass	WILD-RICE
ZIZPAL	8	<i>Zizania palustris (Z. aquatica var. angustifolia)</i>		-5	OBL	Nt A-Grass	WILD-RICE
ZIZAPT	9	<i>Zizia aptera</i>	T	3	FACU	Nt P-Forb	PRAIRIE GOLDEN ALEXANDER
ZIZAUR	6	<i>Zizia aurea</i>		-1	FAC+	Nt P-Forb	GOLDEN ALEXANDERS