

DRAFT AMENDMENTS TO MINNESOTA'S LIST OF
ENDANGERED, THREATENED,
AND SPECIAL CONCERN SPECIES

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This document contains the Minnesota Department of Natural Resources' ("DNR") draft amendments to Minnesota's List of Endangered, Threatened, and Special Concern Species ("List"). The DNR maintains the List under the authority of Minnesota's Endangered and Threatened Species Statute (Minnesota Statutes, Section 84.0895; "MESA"). The List is codified as Minnesota Rules, Chapter 6134. Amendments to the List will be made in accordance with the provisions of the Minnesota Administrative Procedures Act (Minnesota Statutes, Chapter 14).

The DNR wishes to provide you with an opportunity to comment on these draft amendments early in the administrative rulemaking process. Later in administrative rulemaking, you will have additional opportunities to review and comment on amendments to the List.

Copies of this document and related materials are available at <http://www.dnr.state.mn.us/ets/rulesrevision.html>, or by contacting the DNR (above).

NUMERICAL SUMMARY OF DRAFT AMENDMENTS

	CURRENT LIST				TOTAL CHANGES	DRAFT AMENDMENTS					
						CHANGES IN PROTECTED (E/T) STATUS			CHANGES IN LISTED (E/T/SC) STATUS		
	E	T	SC	TOTAL		PROTECTION REMOVED (E/T to SC/N)	PROTECTIO N ADDED (SC/N to E/T)	PROTECTION UNAFFECTED	DELISTED	LISTED	NO EFFECT IN LISTED STATUS
ALL SPECIES	96	101	242	439	273	16	93	164	25	170	78
VASCULAR PLANTS	57	66	133	256	130	9	64	57	9	65	56
LICHENS	8	3	6	17	24	1	2	21	1	22	1
MOSSES AND LIVERWORTS	1	0	2	3	27	0	3	24	0	26	1
FUNGI	3	0	3	6	2	0	0	2	0	2	0
MAMMALS	0	1	14	15	7	0	1	6	1	5	1
BIRDS	7	6	15	28	12	2	1	9	3	6	3
REPTILES AND AMPHIBIANS	2	3	9	14	3	0	1	2	1	1	1
FISH	0	1	20	21	5	0	0	5	0	5	0
MUSSELS	8	12	5	25	12	0	2	10	2	4	6
SNAILS	2	3	0	5	6	3	1	2	3	3	0
JUMPING SPIDERS	0	0	8	8	4	0	1	3	1	2	1
LEAFHOPPERS	0	0	1	1	2	0	0	2	0	2	0
DRAGONFLIES	0	0	2	2	8	0	0	8	0	8	0
BUTTERFLIES AND MOTHS	5	3	8	16	6	0	1	5	0	3	3
CADDISFLIES	1	0	12	13	23	0	15	8	4	16	3
TIGER BEETLES	2	3	4	9	2	1	1	0	0	0	2

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EXPLANATION OF FORMAT

Scientific Name: All scientific names used in this document reflect current scientific knowledge regarding the relationships between species. Where the scientific name of a listed species has changed since the last revision of the List, a parenthetical notation in the form of “(Δ to *Xxx xxx*)” indicates that a change in the scientific name used in Minnesota Rules, Chapter 6134 accompanies its draft change in status. Page 34 lists cases in which a species’ scientific name will be changed without a change in its status. Page 35 identifies the references that provide the source of scientific names used in the List.

Common Name: Although common names are not standardized in general use, they are provided in this document for convenience. However, the DNR intends to remove common names from Minnesota Rules, Chapter 6134. Common names may continue to appear in documents designed for use by the general public.

Current Status/Draft Status: The following abbreviations are used in the Current Status and the Draft Status columns. For legal definitions, see MESA.

- E** Endangered (threatened with extinction throughout all or a significant portion of its range within Minnesota; protected under MESA; location records maintained by DNR)
- T** Threatened (likely to become endangered within the foreseeable future throughout all or a significant portion of its range within Minnesota; protected under MESA; location records maintained by DNR)
- SC** Special Concern (extremely uncommon in Minnesota, or with unique or highly specific habitat requirements and deserving careful monitoring of its status, or on the periphery of its range, or once threatened or endangered but now have increasing or protected, stable populations; *not* protected under MESA; location records maintained by DNR)
- N** No Legal Status (location records maintained by DNR, in most cases)
- N (X)** No Legal Status, and probably extirpated from Minnesota (location records maintained by DNR, in most cases)
- No Legal Status (location records *not* yet maintained by DNR)

Explanation: The explanation column contains up to three lines of information supporting each draft change in status. The explanation for each species will be expanded upon in a Statement of Need and Reasonableness that will be available later in the administrative rulemaking process.

The first two lines of each species’ explanation may include a description of the species’ distribution in the state, its habitat, and the completeness of the survey effort for the species. For any species about which information is maintained by the Minnesota DNR’s Natural Heritage Information System (NHIS), these two lines usually end with “(# EOs),” the number of Element Occurrences (i.e., areas in which a local population of the species has been documented to occur in the past or at present) for which the NHIS has records. Note that some EOs may no longer support the species. If the DNR does not currently maintain records on the species, the explanation will, in most cases, either describe the known location/s or include “# sites represented by collections.” This is an estimate of the number of local populations for which museums or other biological collections are known to have specimens in their holdings.

The final line of each explanation (“Adjacent SRank/Status:”) summarizes the conservation status of the species in the states and provinces that are adjacent to Minnesota (WI = Wisconsin; IA = Iowa; SD = South Dakota; ND = North Dakota; MB = Manitoba; ON = Ontario). A dash (“-”) indicates that the species is not known to occur in that state or province. “US” indicates that the species has the indicated status under the federal Endangered Species Act.

“**SRank**” (Subnational Status Rank) is assigned by each state or province, using standardized assessment methodology developed by NatureServe, the international network of Natural Heritage Programs. SRank is expressed with the following numerical rankings:

- S1 = critically imperiled
- S2 = imperiled
- S3 = vulnerable to extirpation or extinction
- S4 = apparently secure
- S5 = demonstrably widespread, abundant, and secure

Combined codes (e.g., “S3S4”) indicate that the numerical ranking falls between the two ranks. Additional codes used in this field may include:

- S#? = SRank is inexact
- SNR = present in the state or province, but no SRank is available
- SNA = not applicable because species is not a suitable candidate for conservation action
- SU = unranked due to lack of information or conflicting information
- SH = possibly extirpated (“historical”)

In Minnesota, SRank reflects Current Status. Thus, E = S1, T = S2, and SC = S3.

“**Status**” indicates the legal status (if any) of the species within the state or province, using the same codes as those used in the Current Status and Draft Status fields. Note that SD and ND do not maintain state lists, and no legal status is available for those states. MB and ON rarely assign a provincial status to a species. A “C” after “US:” indicates that the species is a candidate for federal status. A comment at the end of the final line reading “(1996: X to X)” indicates that the species’ status in Minnesota was changed in 1996 (the most recent revision of the List) as noted.

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Adlumia fungosa</i>	climbing fumatory	--	SC	Recent surveys have discovered 3 locations of this vine in northeastern MN; habitat is open, disturbed rock outcrops and sandy soils; extensive plant surveys conducted within range. Adjacent SRank/Status: WI:S2/SC; IA:SNR/-; SD:-; ND:-; MB:SU; ON:S4
<i>Adoxa moschatellina</i>	moschatel	SC	N	Many recently confirmed populations in southeast and northeast MN. (138 EOs) Adjacent SRank/Status: WI:S2/T; IA:S3/SC; SD:S3; ND:-; MB:S1?; ON:S1
<i>Agrostis geminata</i>	twin bentgrass	SC	N	No longer a recognized taxon. (12 EOs)
<i>Agrostis hyemalis</i>	ticklegass	N	E	Originally known from a single 1902 collection in Winona County; rediscovered at a single Fillmore County sand prairie/savanna in 1996; most of the suitable habitat surveyed. (2 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S1
<i>Alisma gramineum</i>	narrow-leaved water plantain	N	SC	Rare aquatic; of over 1,200 lakes surveyed, found on only 6 lakes in Otter Tail, Aitkin, Crow Wing, and Douglas counties; most of the known suitable habitat has been surveyed. (6 EOs) Adjacent SRank/Status: WI:SNR; IA:SU/SC; SD:SNR; ND:SNR; MB:S1; ON:S3S4
<i>Allium cernuum</i>	nodding wild onion	T	SC	Some large southeastern MN populations, but still vulnerable to habitat degradation or loss; forest habitat in MN somewhat more secure than prairie habitat in rest of range. (73 EOs) Adjacent SRank/Status: WI:SNR; IA:S3/T; SD:SNR; ND:-; MB:-; ON:S2
<i>Allium schoenoprasum</i> var. <i>sibiricum</i> (Δ to <i>Allium schoenoprasum</i>)	wild chives	T	E	Known only from small pop'ns on moist shoreline bedrock habitat at Jay Cook SP and along L. Superior; fragile habitat is easily threatened; extensive surveys have been conducted. (10 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB: S4?; ON: S4 (1996: SC to T)
<i>Arabis laevigata</i>	smooth rock-cress	N	SC	Occurs in small populations mostly restricted to rich, rocky, bluffland slopes in 5 southeastern counties; surveys have been conducted in most of the known suitable habitat. (24 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:SNR; ND:-; MB:-; ON:S5
<i>Arisaema dracontium</i>	green dragon	N	T	Restricted to southeastern floodplain forests; vulnerable to habitat degradation or loss; surveys have been conducted in most of the known suitable habitat. (32 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S3
<i>Aristida longespica</i> var. <i>geniculata</i>	spiked needlegrass	N	E	Recently discovered in 3-mile-dia. area of Anoka Sand Plain; species is not easily missed; early-successional, sandy habitat has been well-surveyed, and is rapidly being lost. (4 EOs) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:SU; ND:-; MB:-; ON:S2
<i>Aristida tuberculosa</i>	sea-beach needlegrass	SC	T	Found only in east-central and southeast MN unstable sand, sand prairie, and savanna habitat, which is vulnerable to disturbance and destruction; range has been well-surveyed. (33 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:-
<i>Asclepias amplexicaulis</i>	clasping milkweed	SC	T	Southeast MN sand prairie/savanna habitat rare and vulnerable to degradation and loss; populations always small; most of the known suitable habitat has been surveyed. (31EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:-
<i>Aster shortii</i> (Δ to <i>Symphotrichum shortii</i>)	Short's aster	T	SC	Found on wooded slopes in 3 southeastern MN counties; number of known locations doubled shortly after the 1996 status change; easily overlooked due to late flowering date. (25 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S4 (1996: -- to T)

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Azolla mexicana</i>	Mexican mosquito-fern	--	SC	Floating fern ally restricted to Miss. River backwaters; vulnerable to water quality impairment; approx. 10 sites represented by collections; surveys incomplete. Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON: -
<i>Bacopa rotundifolia</i>	water-hyssop	SC	T	Restricted to rainwater pools in bedrock outcrops of southwest MN, a habitat that is scarce and threatened by conflicting uses; extensive surveys have been conducted. (21 EOs) Adjacent SRank/Status: WI:-; IA:S3; SD:SNR; ND:SNR; MB:-; ON: -
<i>Berula erecta</i>	wild parsnip	--	SC	Sparsely distributed in rare and vulnerable seepage and fen habitat across southern MN; surveys incomplete; approximately 19 sites represented by collections. Adjacent SRank/Status: WI:SNR; IA:S2/T; SD:SNR; ND:SNR; MB:-; ON:SNR
<i>Bidens discoidea</i>	bur-marigold	N	SC	Collections scattered across central and northeastern MN in emergent marsh, rich fen, river beach and lakeshore habitats; surveys extensive; only 4 sites documented since 1953. (16 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:S4
<i>Botrychium acuminatum</i>	pointed moonwort	N	T	Known from only 4 widely distributed sites with sandy or gravelly soil within 100-mi-dia area of St. Louis, Lake, and Cook Cos.; surveys for moonworts relatively extensive. (5 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Botrychium ascendens</i>	upward-lobed moonwort	N	E	Discovered in 1998 at the edge of two tailings ponds near Trommald, Crow Wing Co.; disjunct from western pop'n; threatened by loss of early successional habitat; survey extensive. (2 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SH
<i>Botrychium lanceolatum</i> (Δ to <i>B. lanceolatum</i> subsp. <i>angustisegmentum</i>)	triangle moonwort	T	SC	Never abundant, but consistent at many recently documented locations widely distributed in northern hardwood forests of east-central and northeast MN. (117 EOs) Adjacent SRank/Status: WI:S3; IA:-; SD:-; ND:-; MB:-; ON:S3 (1996: -- to T)
<i>Botrychium lineare</i>	narrowleaf grapefern	--	E	Discovered at a single location at edge of tailings pond near Trommald, Crow Wing County, in 2005; disjunct from western pop'n; threatened by habitat loss; surveys extensive. (1 EO) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-; US:C
<i>Botrychium mormo</i>	goblin fern	SC	T	Known from mesic forest sites in north-central MN; all sites threatened, and many sites already extirpated due to earthworm infestation, which destroys required habitat conditions. (167 EOs) Adjacent SRank/Status: WI:S3/E; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Botrychium oneidense</i>	blunt-lobed grapefern	E	T	Recent, well-documented distribution at margin of small, forested wetlands in east-central MN, although few plants at any site; MN at edge of range; extensive surveys conducted. (32 EOs) Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S3 (1996: -- to E)
<i>Botrychium pallidum</i>	pale moonwort	E	SC	Recent, well-documented distribution in woodland edges of central and northeast MN, although very few plants at most sites; surveys are likely to find more locations. (42 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S1; ON:S1 (1996: -- to E)
<i>Botrychium rugulosum</i>	St. Lawrence grapefern	T	SC	Recent, well-documented broad distribution in coniferous and deciduous forests of central and northeast MN; MN at range margin. (60 EOs) Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S2 (1996: -- to T)

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Botrychium spathulatum</i>	spathulate moonwort	N	E	Discovered at a single location at edge of tailings pond near Trommald, Crow Wing County, in 1998; disjunct from western pop'n; threatened by habitat loss; surveys extensive. (1 EO) Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Cacalia muehlenbergii</i> (Δ to <i>Arnoglossum muehlenbergii</i>)	great Indian plantain	N	T	Extensive surveys have been conducted for this conspicuous species; limited to floodplain meadows and open forests in 3 southeastern MN counties; vulnerable to habitat loss. (14 EOs) Adjacent SRank/Status: WI:S2S3/SC; IA:S4; SD:-; ND:-; MB:-; ON:-
<i>Calamagrostis purpurascens</i>	purple reedgrass	SC	E	Documented at only two cliff locations since 1938; both are above border lakes in BWCA; threatened by disturbance of fragile habitat; surveys of habitat have been extensive. (4 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:-; MB: S2; ON:S1 (1996: -- to SC)
<i>Callitriche heterophylla</i>	larger water-starwort	SC	T	Three locations since 1956; grows in southwest MN bedrock pools and small northeast MN lakes; southwest sites threatened by habitat loss; surveys have been extensive. (7 EOs) Adj. SRank/Status: WI:S1/T; IA:S2/SC; SD:SNR; ND:-; MB:S2; ON:S2? (1996: -- to SC)
<i>Cardamine pratensis</i> var. <i>palustris</i> (Δ to <i>Cardamine pratensis</i> var. <i>pratensis</i>)	cuckoo-flower	N	T	Known from widely scattered lake, marsh, fen, and streamside sites in north and north-central MN; only two locations since 1963; survey effort extensive. (5 EOs) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:S4S5; ON:S5
<i>Carex careyana</i>	Carey's sedge	T	E	Restricted to high-quality wet/mesic maple-basswood forests in southeastern MN; threatened by habitat loss and degradation; methodical surveys have been conducted. (7 EOs) Adjacent SRank/Status: WI:S1/T; IA:S2/SC; SD:-; ND:-; MB:-; ON:S2 (1996: -- to T)
<i>Carex crus-corvi</i>	raven's foot sedge	SC	N (X)	Not collected in state since 1926; most of the known suitable habitat (wet areas along Mississippi River in southeastern MN) has been recently surveyed. (2 EOs) Adjacent SRank/Status: WI:S1/E; IA:S4; SD:-; ND:-; MB:-; ON:S1 (1996: -- to SC)
<i>Carex grayi</i>	Gray's sedge	N	SC	Scattered in southeast and central MN; floodplain forest habitat threatened by degradation and loss; extensive surveys have been conducted. (26 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S4
<i>Carex hookeriana</i>	Hooker's sedge	--	SC	First discovered in MN in 2005; known from a single site of oak woodland edge habitat in Becker County; surveys are incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:SNR; MB:S1; ON:SNA
<i>Carex media</i> (Δ to <i>Carex norvegica</i> subsp. <i>inferalpina</i>)	intermediate sedge	N	SC	Restricted to small populations on mossy cliffs and streambanks of northeast MN; many sites vulnerable to disturbance; most known suitable habitat has been recently surveyed. (46 EOs) Adjacent SRank/Status: WI:S2/E; IA:S1/SC; SD:SNR; ND:-; MB:S5; ON:S4
<i>Carex muskingumensis</i>	Muskingum sedge	N	SC	Scattered populations in Mississippi River floodplain forest of 3 southeast MN counties; threatened by habitat damage and conversion; surveys mostly complete. (23 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S2
<i>Carex novae-angliae</i>	New England sedge	N	SC	2002 discovery in moist, deciduous forest habitats in southern Lake county is western range extension; surveys are incomplete. (11 EOs) Adjacent SRank/Status: WI:SH/SC; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Carex ormostachya</i>	necklace spike sedge	N	SC	Sparsely distributed small populations in dry-mesic hardwood forests of northeastern MN; vulnerable to habitat modification; surveys are incomplete. (16 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S4

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Carex rossii</i>	Ross' sedge	N	T	Known from 5 small populations on dry cliff top or rock outcrop habitats in northeastern MN; vulnerable to habitat disturbance; western disjunct; surveys are nearly complete. (6 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:S4; ND:SNR; MB:S5; ON:S2
<i>Carex supina</i> var. <i>spaniocarpa</i> (Δ to <i>Carex supina</i> subsp. <i>spaniocarpa</i>)	weak arctic sedge	SC	E	Only record is 1936 collection from foot of cliff by Clearwater Lake, BWCA; rare but present nearby in Ontario and Manitoba; surveys are incomplete. (1 EO) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S2?; ON:S1 (1996: -- to SC)
<i>Carex woodii</i>	Wood's sedge	SC	N	Regularly found in southeastern and parts of central MN, often in large populations. (99 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:SU; ON:S4
<i>Claytonia caroliniana</i>	Carolina spring-beauty	SC	N	Common in hardwood forests in northeastern MN in large numbers. (155 EOs) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:S5
<i>Commelina erecta</i> (Δ to <i>Commelina erecta</i> var. <i>deamiana</i>)	slender dayflower	--	E	Known in MN from single site on private land at Kellogg-Weaver Dunes, Wabasha County; sand savanna habitat is very fragile; careful surveys of known habitat have been completed. Adjacent SRank/Status: WI:-; IA:S1/T; SD:SNR; ND:-; MB:-; ON:-
<i>Crataegus calpodendron</i>	pear hawthorn	--	SC	Only collections documented since 1927 are from 3 sites in Rice and Wabasha Cos.; habitat at many historic metro area sites have been converted to other uses; extensive surveys conducted. Adjacent SRank/Status: WI:SNR; IA:SU; SD:-; ND:-; MB:-; ON:S4S5
<i>Crataegus douglasii</i>	black hawthorn	T	SC	Found on gravelly stream banks and rocky summits near Lake Superior; most suitable habitat has been surveyed, but other locations likely to be found with additional work. (39 EOs) Adj. SRank/Status: WI:SNR; IA:-; SD:SNR; ND:SNR; MB:SNR; ON:S4 (1996: -- to T)
<i>Crotalaria sagittalis</i>	rattlebox	--	SC	Natural sandy habitat in east-central MN is disappearing; some are in marginal, edge habitats; 3 sites represented by collections; 2 may have been introduced; surveys incomplete. Adjacent SRank/Status: WI:S1/SC; IA:S5; SD:SNR; ND:-; MB:-; ON:-
<i>Deparia acrostichoides</i>	silvery spleenwort	--	SC	Restricted to moist deciduous bluffland forest in southeastern MN; most of the known suitable habitat has been surveyed; not likely overlooked; approx. 30 sites represented by collections. Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:S4
<i>Deschampsia flexuosa</i>	slender hairgrass	SC	T	Only 2 locations documented since 1975; both populations are on fragile sandy soil near lakeshore; no additional locations found during extensive north shore surveys. (7 EOs) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:-; ON:S5
<i>Desmodium cuspidatum</i> var. <i>longifolium</i>	big tick-trefoil	SC	T	Only 9 southeast MN locations documented since 1946; populations mostly small; moist, oak forest habitat threatened by disturbance and loss; extensive surveys conducted. (16 EOs) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Desmodium nudiflorum</i>	stemless tick-trefoil	SC	T	Occurs in small populations in mesic oak forests of southeast and east-central MN; threatened by habitat disturbance and loss; extensive surveys have been conducted. (22 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON: S4 (1996: -- to SC)
<i>Diarrhena obovata</i> (Δ to <i>Diarrhena americana</i>)	American beakgrain	SC	E	Only MN location is fairly robust population under mature hardwood forest in Fillmore Co., but is threatened by disturbance; most of the known suitable habitat has been surveyed. (1 EO) Adjacent SRank/Status: WI:S2/E; IA:S3; SD:SH; ND:-; MB:-; ON:S1 (1996: -- to SC)
<i>Disporum trachycarpum</i> (Δ to <i>Prosartes trachycarpa</i>)	wartyfruit fairy bells	N	E	Discovered in 1999 on forested, north-facing slope above northern Cook County lake; vulnerable to disturbance of habitat; further surveys unlikely to find more locations. (1 EO) Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:SNR; MB:S4; ON:SH

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Draba cana</i>	hoary draba	N	E	Arctic disjunct recently discovered on small Lake Superior island; second population in BWCA; both populations small and localized; cool cliff habitat well surveyed. (2 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:SNR; ND:-; MB:SU; ON:S4
<i>Dryopteris marginalis</i>	marginal shield-fern	T	E	Known from only 2 southeastern MN locations on sandy soils in oak forest habitat. Despite extensive surveys in region, no new locations have been found. (2 EOs) Adjacent SRank/Status: WI:SNR; IA:S1/T; SD:-; ND:-; MB:-; ON:S5
<i>Elatine triandra</i>	three stamened waterwort	N	T	Since 1979, confirmed at 13 locations in northeast MN and Minnesota River valley; surveys extensive, but not found in many apparently suitable sandy, shallow wetland habitats. (21 EOs) Adjacent SRank/Status: WI:S1/SC; IA:S1/SC; SD:SNR; ND:S1S2; MB:-; ON:S3
<i>Eleocharis nitida</i>	neat spike-rush	T	SC	Many new locations in northeastern MN documented since 1995; habitat is meadows and other moist soils, often in human-disturbed habitats. (41 EOs) Adjacent SRank/Status: WI:S2/E; IA:-; SD:-; ND:-; MB:-; ON:S2 (1996: -- to T)
<i>Eleocharis robbinsii</i>	Robbins' spike-rush	N	T	Known from the shallow bays of boggy-shored lakes in northeast MN; not found in many seemingly suitable sites; habitat vulnerable to disturbance; surveys nearly complete. (14 EOs) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:-; ON:S4
<i>Gaylussacia baccata</i>	black huckleberry	--	T	Extensive surveys of dry prairie/savanna habitat have been conducted; 6 recent sites represented by collections; all but one are from north metro area, where habitat is threatened. Adjacent SRank/Status: WI:SNR; IA:S1/T; SD:-; ND:-; MB:SNR; ON:S4
<i>Geum laciniatum</i>	rough avens	N	SC	Restricted to small, sensitive sites on riverbanks, wet prairie, and wet meadows in 2 southeastern counties; most of the known suitable habitat has been surveyed. (11 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S4
<i>Gymnocarpium robertianum</i>	limestone oak fern	--	SC	Distinctive species found in MN on small populations on southeast algific slopes and northern conifer swamps; surveys incomplete; approx. 13 sites represented by collections. Adjacent SRank/Status: WI:S2/SC; IA:S2/SC; SD:-; ND:-; MB:S1; ON:S2
<i>Gymnocladus dioica</i>	Kentucky coffee-tree	N	SC	Populations are small and localized, but well known; restricted to mesic forest habitat in south and southeast MN; threatened by habitat loss; little evidence of reproduction. (22 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S4; SD:S2; ND:SNR; MB:-; ON:S2/T
<i>Hamamelis virginiana</i>	witch-hazel	SC	T	Scattered in oak-dominated bluff and ravine woodlands of southeast MN; some pop'ns small and/or localized; vulnerable to habitat modification; surveys have been thorough. (12 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:S5
<i>Helianthemum canadense</i>	Canada frostweed	N	SC	Restricted to east and southeast MN sand prairies and savannas that are vulnerable to degradation or loss; most of the known suitable habitat has been surveyed. (23 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:S4
<i>Hudsonia tomentosa</i>	beach-heather	SC	T	Restricted to a few sand dunes in southeast, central, northeast, and northwest MN; habitat is vulnerable to loss and/or destruction; most suitable habitat has been surveyed. (37 EOs) Adjacent SRank/Status: WI:SNR; IA:S1/E; SD:-; ND:S1; MB:S3; ON:S2S3 (1996: -- to SC)
<i>Huperzia appalachiana</i>	Appalachian fir-clubmoss	N	SC	Known from damp rocks, cliffs, and talus slopes in northeastern MN; found in a few small, localized populations; extensive surveys have been conducted. (23 EOs) Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:S3?

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Hybanthus concolor</i>	green violet	N	E	Discovered in Winona County in 1999; 1 small, localized population in hardwood forest in narrow valley; vulnerable to habitat degradation; most suitable habitat surveyed. (1 EO) Adjacent SRank/Status: WI:SH/SC; IA:S2/T; SD:-; ND:-; MB:-; ON:S2
<i>Juglans cinerea</i>	butternut	SC	E	Found with oak in scattered central and southeastern MN deciduous forests; disease threatens all adults; few healthy trees remain; surveys largely complete. (31 EOs) Adj. SRank/Status: WI:S3?; IA:SU; SD:-; ND:SNR; MB:SNA; ON:S3? (1996: -- to SC)
<i>Juncus marginatus</i>	marginated rush	SC	E	All MN populations are in acidic wet meadows in an intensively surveyed, rapidly-developing, one mile-dia. area of Anoka and Ramsey Cos.; rediscovered in MN in 1999. (13 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S1/SC; SD:S2; ND:-; MB:-; ON:S2 (1996: -- to SC)
<i>Juncus subtilis</i>	creeping rush	N	E	Discovered in MN in 1998 in shallow, sandy bayshore area of a Cook Co. boundary waters lake; uncommon nearby in Ontario; vulnerable to disturbance; surveys extensive. (1 EO) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Leersia lenticularis</i>	catchfly grass	SC	T	Known only from Miss. River floodplain meadows and forests in far southeastern MN; few plants at any location; vulnerable to hydrologic changes; surveys largely complete. (11 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:-
<i>Lespedeza leptostachya</i>	prairie bush clover	T	SC	Occurs on prairie slopes and bluffs in south-central and south-eastern MN; many sites protected and managed; at least 6 populations in the thousands; surveys largely complete. (56 EOs) Adjacent SRank/Status: WI:S2/E; IA:S3/T; SD:-; ND:-; MB:-; ON:-; US:T (1996: E to T)
<i>Linaria canadensis</i>	old field toadflax	N	SC	Found in rare sand prairie landscapes of east-central and southeast MN; habitat threatened by modification; extensive surveys have been completed. (26 EOs) Adjacent SRank/Status: WI:-; IA:S3; SD:-; ND:-; MB:-; ON:SNR
<i>Luzula parviflora</i> ssp. <i>melanocarpa</i> (Δ to <i>Luzula parviflora</i>)	small-flowered woodrush	SC	T	Known from limited distribution in Lake and Cook Counties; occurs as mostly small pop'ns in moist forested edges; many sites prone to disturbance; surveys extensive. (17 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S5; ON:S5 (1996: -- to SC)
<i>Minuartia dawsonensis</i>	rock sandwort	SC	T	Small, localized populations on scattered rocky ledges, outcrops, and hills in northwestern and southeastern MN; habitat vulnerable to disturbance or loss; surveys extensive. (25 EOs) Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:S1; MB:S5; ON:S5
<i>Myriophyllum heterophyllum</i>	broadleaf water-milfoil	N	SC	Only known MN location is Low Lake, Superior NF, where it is vulnerable to disturbance; at edge of continental range; surveys of over 1,200 lakes have been completed. (1 EO) Adjacent SRank/Status: WI:SNR; IA:S1/SC; SD:SNR; ND:SU; MB:-; ON:S4?
<i>Najas guadalupensis</i> subsp. <i>olivacea</i>	olive-seeded Guadalupe Island naiad	--	SC	Since 1960, this Great Lakes endemic collected from the lakeshore of 4 Crow Wing Co. lakes; vulnerable to declines in water quality due to narrow pH requirements; surveys extensive. Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:SNR; ON:SU
<i>Orobanche fasciculata</i>	clustered broomrape	SC	T	Small populations found in scattered sand prairies in southeast, central, and northwest MN; habitat very local, threatened by conversion; surveys largely complete. (19 EOs) Adjacent SRank/Status: WI:S1/T; IA:S1/E; SD:SNR; ND:SNR; MB:S3S4; ON:S1
<i>Orobanche ludoviciana</i>	Louisiana broomrape	SC	T	Most populations are small and restricted to sand prairie in western MN; habitat is rare and threatened by disturbance and loss; extensive surveys have been completed. (15 EOs) Adjacent SRank/Status: WI:S1/E; IA:SH/SC; SD:SNR; ND:SNR; MB:S2; ON:-

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Orobanche uniflora</i>	one-flowered broomrape	SC	T	Very small pop'ns in hardwood forests near foot of southeastern MN bluffs; confirmed at only 6 sites since 1967; threatened by habitat damage and loss; surveys largely complete. (13 EOs) Adjacent SRank/Status: WI:S3/SC; IA:S3; SD:SNR; ND:SH; MB:-; ON:S4
<i>Oryzopsis canadensis</i> (Δ to <i>Piptatherum canadense</i>)	Canada mountain-ricegrass	N	T	Discovered in MN in 2003; in forest openings or along old trails in 3-mile-dia. area of southern Lake Co. and at 1 site in St. Louis Co.; threatened by succession; surveys extensive. (7 EOs) Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:S1; ON:S4
<i>Panax quinquefolius</i> (Δ to <i>Panax quinquefolium</i>)	American ginseng	SC	T	Mesic hardwood forests species; well surveyed; collected for commercial and medicinal uses; recent studies indicate harvest is not sustainable; impacted by deer overpop'n. (274 EOs) Adjacent SRank/Status: WI:S4; IA:S3; SD:S1; ND:-; MB:-; ON:S2
<i>Paronychia canadensis</i>	Canadian forked chickweed	T	E	All populations in 8-mile-dia. area of sandy soils in oak savanna along Root R.; threatened by habitat conversion and loss; extensive surveys have been completed. (9 EOs) Adjacent SRank/Status: WI:SNR; IA:S5; SD:-; ND:-; MB:-; ON:S1 (1996: -- to T)
<i>Phacelia franklinii</i>	Franklin's phacelia	SC	T	Western disjunct known from 115-mi-dia area of Lake/Cook Cos; in small populations associated with tip-ups and talus; threatened by habitat loss; surveys extensive. (9 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S5; ON:S2 (1996: -- to SC)
<i>Phegopteris hexagonoptera</i>	broad beech-fern	T	E	Restricted to small pop'ns in mesic hardwood forests in cool ravines of southeastern MN; only 1 new location since 1980; threatened by habitat disturbance; surveys largely complete. (6 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S3; SD:-; ND:-; MB:-; ON:S3
<i>Phlox maculata</i>	wild sweet William	--	SC	Found in fens, wet meadows, and wet prairie remnants in southeastern MN; habitat threatened by disturbance; surveys incomplete; approximately 10 sites represented by collections. Adjacent SRank/Status: WI:-; IA:S4; SD:-; ND:-; MB:-; ON:SNA
<i>Plagiobothrys scouleri</i>	popcorn flower	--	SC	Restricted to rock pools in quartzite outcrops in southwestern Minnesota; threatened by habitat loss; approximately 5 sites represented by collections; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:SNR; MB:S1; ON:SNA
<i>Platanthera flava</i> var. <i>herbiola</i>	tuberclad rein-orchid	E	T	Well distributed in north-central, central, and southeastern MN; 12 new locations since 2000; some large populations, some on protected lands; habitat loss remains a major threat. (41 EOs) Adjacent SRank/Status: WI:S2/T; IA:S2/E; SD:-; ND:-; MB:-; ON:S3
<i>Poa alpina</i>	alpine bluegrass	N	E	Arctic disjunct known in MN from single Lake Superior population; rocky shore habitat vulnerable to disturbance; survey mostly complete. (1EO) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S5; ON:S4

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<i>Polygonum viviparum</i> (Δ to <i>Bistorta vivipara</i>)	alpine bistort	SC	T	Arctic disjunct found along moist shoreline rocks and shrubland of Lake Superior; vulnerable to habitat damage and loss; most of the known habitat has been surveyed. (14 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:-; MB:S4; ON:S5
<i>Polystichum acrostichoides</i>	Christmas fern	T	E	Found on mesic forested slopes in southeastern MN; vulnerable to habitat degradation and destruction; surveys largely complete. (2 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S4; SD:-; ND:-; MB:-; ON:S5 (1996: SC to T)
<i>Polystichum braunii</i>	Braun's holly fern	E	T	Occurs on rocky, forested cliffs and slopes in a 75-mile area of northeastern MN; most pop'ns small; vulnerable to disturbance and habitat destruction; extensive surveys completed. (11 EOs) Adjacent SRank/Status: WI:S3/T; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Potamogeton bicupulatus</i>	snailseed pondweed	E	T	Known from 15 lakes widely distributed in east-central MN; 9 locations discovered since 1996; species has very specific water quality requirements. (14 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S3S4 (1996: -- to E)
<i>Potamogeton oakesianus</i>	Oakes' pondweed	N	E	Discovered in MN in 1995; very small populations in 3 lakes within 50-mile-dia. area of St. Louis and Aitkin Counties; vulnerable to habitat degradation; surveys nearly complete. (3 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S4
<i>Potamogeton pulcher</i>	spotted pondweed	N	E	Known only from Colby Lake, Chisago County despite recent surveys of 1,200+ lakes; threatened by disturbance and habitat modification; surveys nearly complete. (1 EO) Adjacent SRank/Status: WI:S1/E; IA:-; SD:-; ND:-; MB:-; ON:SH
<i>Potamogeton vaginatus</i> (Δ to <i>Stuckenia vaginata</i>)	sheathed pondweed	SC	E	Since 1957, found in only 3 lakes in Itasca, Otter Tail, and Becker Counties; in all cases, threatened by disturbance and habitat degradation; surveys nearly complete. (5 EOs) Adjacent SRank/Status: WI:SH/T; IA:-; SD:S2; ND:S3; MB:S5; ON:S5 (1996: -- to SC)
<i>Potamogeton vaseyi</i> (= <i>P. lateralis</i>)	Vasey's pondweed	SC	N	Widely distributed in boggy/sandy shorelines in lakes throughout central, north-central, and northeastern MN; additional locations likely as surveys continue. (116 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S1/SC; SD:-; ND:-; MB:-; ON:S4
<i>Prenanthes crepidinea</i>	nodding rattlesnake-root	SC	N (X)	Single Houston County location has not been relocated since 1900; extensive surveys have been completed. (1 EO) Adjacent SRank/Status: WI:S1/E; IA:-; SD:-; ND:-; MB:-; ON:- (1996: -- to SC)
<i>Quercus bicolor</i>	swamp white oak	N	T	Restricted to two 4-5 mile dia. areas of Miss. R. floodplain forest; most pop'ns small, with poor reproduction, and vulnerable to habitat degradation; surveys largely complete. (7 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:-; ND:-; MB:-; ON:S4
<i>Rubus fulleri</i>	Fuller's blackberry	--	T	Collections document approximately 12 locations in 10 counties in Anoka Sandplain; wetland margin habitat vulnerable to habitat decline and loss; surveys nearly complete. Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:-
<i>Rubus missouricus</i>	Missouri blackberry	--	T	Collected from only one Anoka County location despite extensive surveys of known suitable habitat; wetland margin habitat vulnerable to habitat decline and loss. Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:-
<i>Rubus multiflorus</i>	a species of blackberry	--	SC	In small populations in bedrock or sand habitat in central and east-central MN; vulnerable to habitat loss; surveys incomplete; 2 sites represented by post-1955 collections. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:-

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<i>Rubus quaesitus</i>	a species of blackberry	--	SC	Known from only 2 sites in MN; first found in Kanabec County in 1958, but never relocated; discovered in fire-dependent forest habitat Carlton Co. in 1998; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Rubus semisetosus</i>	half bristly bramble	N	T	Only recent collections are from a Todd Co. fen and several meadows in the Anoka Sandplain; shallow wetlands habitat vulnerable to degradation and loss; surveys nearly complete. (4 EOs) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:-
<i>Rubus stipulatus</i>	stipuled blackberry	N	E	Recently confirmed in two wet meadows in Rice and Anoka Counties; globally, these locations are the only known extant populations of this species; surveys are largely complete. (1 EO) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:-
<i>Rubus vermontanus</i>	Vermont blackberry	--	SC	Collected from approximately 7 remnant wet meadows on sandplains and sandy moraines in 5 east-central MN counties; threatened by habitat degradation and loss; surveys incomplete. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Rudbeckia triloba</i>	three-leaved coneflower	SC	T	Only four recently-confirmed populations; found in southeast MN streamside forest that is threatened by conversion to conflicting uses; extensive surveys completed. (10 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:-; ND:-; MB:-; ON:SNA
<i>Ruellia humilis</i>	wild petunia	N (X)	E	Rediscovered at Afton SP, Washington Co., in 2005; only known location is in oak savanna habitat that is threatened by invasive plants and succession; area intensively surveyed. (2 EOs) Adjacent SRank/Status: WI:S2/E; IA:S4; SD:-; ND:-; MB:-; ON:SNA (1996: E to N(X))
<i>Sagittaria brevirostra</i>	short-beaked arrowhead	N	SC	Only three known locations, most recently from two wetland locations in Clay County from 1955 and 1956; not found in recent survey of 1,200+ lakes, but surveys incomplete. (3 EOs) Adjacent SRank/Status: WI:SNR; IA:S4; SD:SNR; ND:SNR; MB:-; ON:-
<i>Sagittaria graminea</i> subsp. <i>graminea</i>	grass-leaved arrowhead	N	SC	Only two locations confirmed since 1950; both are in shallow lakeshore in Anoka Sandplain; not found in recent survey of 1,200+ lakes, but surveys incomplete. (8 EOs) Adjacent SRank/Status: WI:SNR; IA:SNR; SD:SNR; ND:-; MB:-; ON:S4S5
<i>Salix pellita</i>	satiny willow	SC	T	Since 1957, found at only 2 sites in Cook County and in a 5 mile-dia area of St. Louis County; streambank habitat is vulnerable to disturbance; surveys nearly complete. (11 EOs) Adjacent SRank/Status: WI:S1/E; IA:-; SD:-; ND:-; MB:S4; ON:S5 (1996: -- to SC)
<i>Salix pseudomonticola</i>	false mountain willow	--	SC	Known from moist hillsides and wetlands in northwestern and northeastern MN; threatened by disturbance and habitat loss; surveys largely complete; 5 sites represented by collections. Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:-; MB:S4S5; ON:S3
<i>Saxifraga paniculata</i> (Δ to <i>Saxifraga aizoon</i>)	encrusted saxifrage	T	SC	23 recent locations widely distributed on north and east-facing cliffs along Lake Superior and in the Boundary Waters in Lake and Cook Counties; easily identified. (28 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:SNR

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<i>Scirpus clintonii</i> (Δ to <i>Trichophorum clintonii</i>)	Clinton's bulrush	SC	T	Scattered populations in northwest, northeast, southeast, and central MN; in wet sand prairie and savanna habitat; threatened by habitat conversion; surveys nearly complete. (19 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S2 (1996: -- to SC)
<i>Senecio indecorus</i> (Δ to <i>Packera indecora</i>)	elegant groundsel	SC	N (X)	Six old records from northeastern Cook County lakeshores; most recently seen in 1957. (6 EOs) Adjacent SRank/Status: WI:S1/T; IA:-; SD:-; ND:-; MB:SU; ON:S5 (1996: -- to SC)
<i>Shepherdia canadensis</i>	soapberry	--	SC	Found in open woodlands in northeastern and northwestern MN; surveys largely complete; approx. 9 sites represented by post-1951 collections. Adjacent SRank/Status: WI:SNR; IA:-; SD:SNR; ND:SNR; MB:S5; ON:S5
<i>Solidago sciaphila</i>	cliff goldenrod	SC	N	Widely distributed on cliffs and outcrops in five southeastern MN counties. (89 EOs) Adjacent SRank/Status: WI:S3/SC; IA:S3; SD:-; ND:-; MB:-; ON:-
<i>Spiranthes casei</i>	Case's ladies'-tresses	N	T	Discovered in MN in 2001; known only from tailings basins in 20-mile portion of Iron Range in Itasca and St. Louis Counties; threatened by habitat degradation; surveys extensive. (4 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S4
<i>Taenidia integerrima</i>	yellow pimpernel	N	SC	Broadly distributed but uncommon in southeastern MN savanna habitats, which are threatened by decline and loss; populations small and localized; surveys largely complete. (29 EOs) Adjacent SRank/Status: WI:SNR; IA:S3; SD:SH; ND:-; MB:-; ON:S4
<i>Talinum rugospermum</i> (Δ to <i>Phemeranthus rugospermus</i>)	rough-seeded fameflower	E	T	Several pop'ns, including a few large, in southeastern MN sand prairie habitat, which is uncommon and threatened by degradation and loss; surveys are largely complete. (14 EOs) Adjacent SRank/Status: WI:S3/SC; IA:S1/E; SD:-; ND:-; MB:-; ON:-
<i>Thaspium barbinode</i>	meadow parsnip	--	SC	Known from ungrazed, mesic, riparian forests in Otter Tail, Jackson, and Nicollet Counties; surveys incomplete; 3 sites represented by post-1934 collections. Adjacent SRank/Status: WI:S1/E; IA:S4; SD:-; ND:-; MB:SNR; ON:S1
<i>Trimorpha acris</i> var. <i>asteroides</i> (Δ to <i>Erigeron acris</i> subsp. <i>kamtschaticus</i>)	bitter fleabane	SC	E	Rediscovered in 2000 on west-facing cliff in Lake County; site prone to disturbance; 3 historical locations have not been relocated, but surveys incomplete. (4 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:-; MB:S4; ON:S5 (1996: -- to SC)
<i>Trimorpha lonchophylla</i> (Δ to <i>Erigeron lonchophyllus</i>)	shortray fleabane	SC	T	All EOs recent; restricted to rare wet mesic or saline prairie in northwest MN; 4 of 9 sites are unprotected; surveys largely complete. (9 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:SNR; MB:S4; ON:S4? (1996: -- to SC)
<i>Trisetum spicatum</i>	spike trisetum	--	SC	Arctic disjunct found in bedrock crevices on Lake Superior shore; habitat threatened by disturbance and loss; approx. 15 sites represented by post-1951 coll'ns; surveys incomplete. Adjacent SRank/Status: WI:S2/T; IA:-; SD:SNR; ND:-; MB:S4; ON:S4
<i>Tsuga canadensis</i>	eastern hemlock	SC	E	Five locations found since 1974; most are single trees, with >10 trees at only 2 sites, both with little repro; scattered forest locations in east-central MN; surveys thorough. (19 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S5
<i>Utricularia purpurea</i>	purple-flowered bladderwort	SC	E	Discovered in east-central MN in 1992; found in only 7 of 1,200 lakes surveyed; most pop'ns vulnerable to disturbance and habitat degradation; surveys nearly complete. (9 EOs) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:-; ON:S4 (1996: -- to SC)
<i>Utricularia resupinata</i>	lavender bladderwort	SC	E	Found in MN in 1984; all healthy pop'ns located in 2 small clusters within a 50 mile-dia. area of the BWCAW; other pop'ns vulnerable to disturbance; surveys nearly complete. (12 EOs) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:-; ON:S4 (1996: -- to SC)

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<i>Vaccinium uliginosum</i>	alpine bilberry	T	E	Known from 10 mile portion of Lake Superior shoreline in far northeastern Cook Co.; single site of 8-10 plants found since 1937; surveys thorough except for Grand Portage Res. (3 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S5; ON:S5
<i>Vitis aestivalis</i> (Δ to <i>Vitis aestivalis</i> var. <i>bicolor</i>)	silverleaf grape	SC	T	Collections since 1980 are restricted to a few wooded slopes in Houston and Winona Counties; threatened by habitat degradation and loss; surveys largely complete. (11 EOs) Adjacent SRank/Status: WI:SNR; IA:-/SC; SD:-; ND:-; MB:-; ON:S4 (1996: -- to SC)
<i>Woodsia alpina</i>	alpine woodsia	SC	T	Occurs on moist cliffs in gorges near Lake Superior and in BWCAW; all populations small and vulnerable to disturbance; surveys nearly complete. (28 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:S1; ON:S2 (1996:N to SC)
<i>Woodsia oregana</i> subsp. <i>cathcartiana</i>	Oregon woodsia	N	SC	Small populations at four cliff sites in Cook and Yellow Medicine Counties; most habitat has been surveyed. (4 EOs) Adjacent SRank/Status: WI:S1/SC; IA:SNR/T; SD: SNR; ND: SNR; MB: S1; ON:S3

LICHENS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Amygdalaria panaeola</i>	powdery almond lichen	--	SC	This crustose lichen is found on siliceous rocks in sunny, humid boulder fields; known from only one Cook County site, despite extensive recent surveys; more common on northern NA coasts. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Arctoparmelia centrifuga</i>	concentric ring lichen	--	SC	A foliose lichen of sunny, siliceous rocks and talus slopes; MN is at the southern range margin of this otherwise alpine species; only 4 known MN locations (Lake and Cook Counties). Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Arctoparmelia subcentrifuga</i>	a species of ring lichen	--	SC	Recent extensive surveys of northeastern MN lichens have found this species at only 2 Cook County locations; a foliose lichen of siliceous rocks on rocky ridges. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Arthrorhaphis citrinella</i>	golden dot-lichen	--	T	A bright yellow crustose lichen known from only one site in Cook County; widely disjunct from its arctic alpine range; grows on noncalcareous, disturbed soils; extensive surveys conducted. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Bryoria fuscescens</i>	pale-footed horsehair lichen	--	SC	This distinctive, hanging, fruticose lichen has been found growing on coniferous trees at one site in each of 3 counties (Cass, Cook, Lake); MN surveys relatively thorough. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:SNR
<i>Buellia nigra</i>	black disc lichen	E	SC	Known from only 2 sites when listed in 1984, extensive surveys have found this crustose lichen on outcrops at 18 sites in southwestern MN and along the Minnesota River since 1997. (20 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Caloplaca stellata</i>	a species of firedot lichen	--	SC	Recent extensive surveys of northeastern MN lichens have found this crustose species on rocks at only 4 Cook County locations; outside of MN, restricted to far western North America. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Heterodermia obscurata</i>	orange-tinted fringe lichen	--	SC	This foliose lichen is found in partial shade on cedar trees in cedar swamps; in MN, found at only one Cass County site, despite extensive surveys; common in southeastern US. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SH
<i>Lecanora epanora</i>	a species of rim-lichen	--	T	A crustose lichen of siliceous rocks, this species has been found at only one Cook Co. location, on cliffs above South Fowl Lake, Superior NF; surveys extensive; only 1 other NA location. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Lobaria quercizans</i>	smooth lungwort	SC	N	Surveys since 1996 have discovered this foliose lichen on the bark of older deciduous trees at 19 sites in Lake, Cook, and St. Louis Counties. (39 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S4? (1996: T to SC)
<i>Melanelia subolivacea</i>	brown-eyed camouflage lichen	--	SC	A foliose lichen of deciduous tree bark, this species has been found at only 3 sites in Clearwater and St. Louis Counties during recent surveys; otherwise in US, found west of the Great Plains. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Menegazzia terebrata</i>	port-hole lichen	--	SC	This foliose lichen is known from only 10 MN locations in Cook, Lake, and St. Louis Counties, where it is found on the bark of older cedars in bog habitat; elsewhere restricted to NA coasts. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S1S3
<i>Ochrolechia androgyna</i>	powdery saucer lichen	--	SC	This species of crustose lichen has been found growing on tree bark at only 4 locations in Cook and St. Louis Counties during recent extensive surveys; a circumpolar arctic species. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Peltula bolanderi</i>	Bolander's peltula lichen	--	SC	Recent extensive MN surveys have found this crustose lichen species at only one site in Lake of the Woods County; grows on siliceous rock, usually in dry sites. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:-; ON:-

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<i>Platismatia glauca</i>	ragbag lichen	--	SC	A foliose lichen of coniferous trees in cool, moist sites; found by recent extensive surveys at only 2 sites along the Lake Superior shoreline in Cook Co.; common in western and eastern NA. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:SNR; ON:SNR
<i>Protopannaria pezizoides</i>	brown-gray moss-shingle lichen	--	SC	Known in MN from one old growth white cedar bog in Lake Co., where discovered in 2000; this crustose lichen is at the southern margin of its North American range; surveys extensive. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Ramalina roesleri</i>	frayed ramalina lichen	--	SC	Only one Cook County location of this fruticose lichen was found during recent surveys; grows on trees in open, cool, humid sites; a boreal, circumpolar species, more common elsewhere. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Ramalina thrausta</i>	angel's hair lichen	--	SC	A fruticose lichen first discovered in MN in 2000 growing on cedar trees in 2 humid, old growth white cedar bogs in Cook County, Superior NF; threatened by air pollution in Europe. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:SNR
<i>Stereocaulon pileatum</i>	pixie foam lichen	--	SC	A fruticose lichen known from 7 MN locations in Cook and Lake Cos.; grows on siliceous rock outcrops near lakeshores; vulnerable to disturbance; widely disjunct from eastern NA range. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Thelocarpon epibolum</i>	a species of thelocarpon lichen	--	SC	This tiny, crustose lichen is a parasite on other lichen species, usually of the genus <i>Peltigera</i> ; in MN, known from one Koochiching County location, despite extensive surveys. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Umbilicaria vellea</i>	navel lichen	--	SC	Recent extensive surveys have found this lichen at only 4 sites in Cook, Lake, and St. Louis Counties; a foliose lichen of noncalcareous rock cliffs; otherwise, an arctic-alpine species. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:SNR
<i>Usnea longissima</i>	Methuselah's beard lichen	--	SC	Known from 15 recent MN locations (St. Louis, Cook, Lake Cos); a fruticose lichen restricted to moist old growth forests; very sensitive to poor air quality; extirpated in much of Europe. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Usnea mutabilis</i>	bloody beard lichen	--	SC	A fruticose lichen that grows on tree bark near water; known from 2 sites in Hennepin/Ramsey and Washington County; found throughout eastern US. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Usnea rubicunda</i>	red beard lichen	--	SC	This fruticose lichen is known from only 2 sites in MN (Pine and Washington Counties), where it grows on the bark of trees near water; widely distributed on the NA east and west coasts. Adjacent SRank/Status: WI: SX; IA:-; SD:-; ND:-; MB:-; ON:-

MOSSES AND LIVERWORTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Aphanorrhagma serratum</i>	a species of moss	--	SC	This moss grows on river banks and areas prone to flooding, and has been found at only one site in MN, along the bank of the St. Croix River in Chisago County; surveys extensive. Adjacent SRank/Status: WI:S3S4; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Atrichum crispum</i>	wave-leaved crane's-bill moss	--	SC	This species is found on wet soils in woods; occurs in MN in hummocky seepage fens; known from two sites in MN, in Lake County and Rice County; surveys extensive. Adjacent SRank/Status: WI:S3S4; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Atrichum tenellum</i>	little saw moss	--	SC	This moss lives on wet soils in open hardwood forests, and is known from only one site in MN, a woodland in Fillmore County; surveys have been extensive. Adjacent SRank/Status: WI:S3S4; IA:-; SD:-; ND:-; MB:SNR; ON:S2
<i>Aulacomnium androgynum</i>	bud-headed thread moss	--	SC	Habitat for this moss species includes sedge meadows, treed fens, and conifer forests. In MN, it is known only from three sites in the Susie Islands of Cook County; surveys extensive. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Aulacomnium heterostichum</i>	differential branched crease capsule moss	--	SC	This moss species occurs on soil or rocks in open, deciduous woods and along creeks, and in MN, is known only from a single site on Big Trout Creek, Winona County; surveys extensive. Adjacent SRank/Status: WI:S3S4; IA:-; SD:-; ND:-; MB:SNR; ON:S2
<i>Bryum cyclophyllum</i>	egg-leaf true moss	--	SC	Known only from one site in MN, on Big Susie I., this poorly known moss occurs on wet soils subject to inundation. It is sparsely distributed in eastern NA, but found widely in western NA. Adjacent SRank/Status: WI:S2?; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Buxbaumia aphylla</i>	bug-on-a-stick moss	--	SC	This moss species is found on disturbed soils or old logs in hardwood forests at the edge of creeks; within MN, known only from a single site on Big Trout Creek, Winona County. Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:S2S3
<i>Cirriphyllum piliferum</i>	hair-pointed feather moss	--	SC	Grows on soil and decayed wood in moist, shady places; known only from an algific slope in Fillmore County and from a small area of valley-bottom wetlands and forest in Washington Co. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S2
<i>Cryptocolea imbricata</i>	a species of liverwort	--	T	The type locality of this recently-described liverwort is from moist soil on Susie Is.; known only from eastern NA, one site on Isle Royale, Greenland, and Ellesmere I.; surveys extensive. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Cynodontium schisti</i>	mowed mosquito moss	--	SC	This moss inhabits shaded crevices of cliffs and bounders; known in MN from sheltered rock ledge and forest edge habitat on Little Brick Island, Cook County; surveys extensive. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Cyrto-hypnum pygmaeum</i>	pigmy plume moss	--	SC	This moss occurs on mesic forest, cliff, and rocky creek-bed habitat, and has been found at only two sites in MN, in Houston and Wabasha Counties; surveys extensive. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:S2
<i>Encalypta procera</i>	extinguisher moss	--	SC	This moss is a calciphile found on rock or soil in moist crevices, talus, and cliff ledges; known from only two sites in MN, along creeks in Cook and Lake Counties; surveys extensive. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:SNR; ON:S5
<i>Frullania selwyniana</i>	a species of liverwort	--	T	After not having been collected in MN in over 60 yrs, extensive surveys in 2001 found this rare liverwort at a single humid, cedar/ash swamp in Lake Co.; restricted to the bark of white cedar. Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:S1S2

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<i>Heterocladium dimorphum</i>	spaced-out tangle moss	--	SC	This moss species grows along moist streambanks; known from only one Cook County location in MN, where it grows on bedrock within the Lake Superior splash zone; surveys extensive. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S2
<i>Hyophila involuta</i>	rolled-leaf wet-ground moss	--	SC	An inhabitant of wet rocks, often in streams, this moss species has been found in only one location in MN, on rocks in an intermittent streambed in Houston county; surveys extensive. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Jaffuelobryum wrightii</i>	Wright's blunt leaved bryum	--	SC	A moss of dry, sandstone outcrops, this species is known from a single location along the Minnesota River, near Kasota, Le Seuer County; surveys incomplete. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Lescurea saxicola</i>	a species of moss	--	T	First discovered in MN in 2001; rare, montane species otherwise known only from eastern and western North America; disjunct MN pop'n is in a black ash swamp along Brule R., Cook Co. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Marsupella emarginata</i>	high mountain ditch liverwort	--	SC	This liverwort typically occurs on wet, acidic rocks near mountain streams and waterfalls. In MN, known from two Cook County sites near the shore of Lake Superior; surveys extensive. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S3?
<i>Meesia uliginosa</i>	swan moss	--	SC	This moss species prefers calcium-rich fens and swamps; in MN, it is has only been found in 4 spring fens and thickets of the Net Lake Peatland in Koochiching County; surveys extensive. Adjacent SRank/Status: WI:S3; IA:-; SD:-; ND:-; MB:SNR; ON:S3
<i>Pogonatum urnigerum</i>	urn-bearing hair moss	--	SC	A species of roadbanks and cliff crevices, in MN, this moss is known only from the Lake Superior shore, Sugar Loaf Cove, Cook County, where it is peripheral to its eastern U.S. range. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Schistostega pennata</i>	cave moss	E	T	This luminous moss inhabits caves and other dark recesses; known from only two sites in MN, both small populations on cliff faces along lakeshores in Cook and Lake Cos.; surveys extensive. Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:S2
<i>Sphagnum compactum</i>	cushion peat moss	--	SC	This moss occurs in dry margins of open bogs, and pioneers sand, rock, and bare peat; poor competitor; known from only a single logged jack pine stand in St. Louis County, MN. Adjacent SRank/Status: WI:S4; IA:-; SD:-; ND:-; MB:SNR; ON:S3
<i>Sphagnum lescurii</i>	red twisted bog moss	--	SC	This moss of pond margins under coniferous forests is known from one Lake County location in MN, where it is associated with black spruce forest at the edge of Edward Lake. Adjacent SRank/Status: WI:S4; IA:-; SD:-; ND:-; MB:-; ON:S1
<i>Splachnum rubrum</i>	red parasol moss	--	SC	Known from only three Cook County forested fen sites in MN, this rare moss species grows exclusively on old moose dung; surveys extensive. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:S2
<i>Thelia hirtella</i>	common thelia	--	SC	This species tends to grow on bark near the base of hardwood trees; known from only 2 MN sites near Hoyt Lakes, St. Louis County, which is at the western edge of its N.A. range. Adjacent SRank/Status: WI:S4; IA:-; SD:-; ND:-; MB:-; ON:S2

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Tortella inclinata</i>	shortleaf chalk moss	--	SC	In MN, this moss is known from a single, Cook County location in the vicinity of Grand Marais; prefers calcareous habitats, stabilized dune sand and gravel; surveys extensive. Adjacent SRank/Status: WI:S3?; IA:-; SD:-; ND:-; MB:SNR; ON:S1S2
<i>Trichocolea tomentella</i>	common down liverwort	--	SC	Known from only one Lake County location in MN, a black ash/conifer swamp in Tettegouche State Park; surveys extensive. (1EO) Adjacent SRank/Status: WI:S4?; IA:-; SD:-; ND:-; MB:-; ON:S5

FUNGI

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Boletus subcaerulescens</i>	a species of fungus	--	SC	A distinctive species discovered in MN in 2004 near McCormick Lake, Andrews State Forest, Pine County; recently also found in Lester Park, Duluth, St. Louis County; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Sarcosoma globosum</i>	a species of fungus	--	SC	A species of old coniferous forests; produces large, cup-shaped fruiting bodies; only 5 known locations in US, incl. one in Superior NF, St. Louis Co.; red-listed in much of northern Europe. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-

MAMMALS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Canis lupus</i>	gray wolf	SC	N	Now well-distributed in northern MN's forests, recovery goals exceeded; MN pop'n estimated at 2,301-3,708 in 2003-04; federal delisting likely in the near future. (EOs not maintained) Adj. SRank/Status: WI:S2/T; IA: SX; SD:-; ND: SX; MB:S4; ON:S4; US:T (1996: T to SC)
<i>Lynx canadensis</i>	Canada lynx	--	SC	Since 2000, this federally threatened species has been documented in association with snowshoe hare habitat throughout northeastern MN, and reproduction has been confirmed. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND: SX; MB:S5; ON:S5; US:T
<i>Onychomys leucogaster</i>	northern grasshopper mouse	N	SC	Locally common, never abundant in dry grassland habitat of western MN; increasing pressure from gravel mining; very few new locations found despite considerable survey effort. (36 EOs) Adjacent SRank/Status: WI:-; IA:S3; SD:S5; ND: SNR; MB:S3; ON:-
<i>Reithrodontomys megalotis</i>	western harvest mouse	N	SC	Restricted to old field habitats in southern MN, which are being converted to conflicting uses; absent from many old locations; few new sites despite extensive on-going surveys. (37 EOs) Adjacent SRank/Status: WI:S2; IA:S4; SD:S5; ND: SNR; MB:-; ON:-
<i>Spermophilus richardsonii</i>	Richardson's ground squirrel	N	SC	Found colonially in old fields, where vulnerable to local extirpation; several colonies in southwestern MN recently discovered, but land use changes have eliminated others. (5 EOs) Adjacent SRank/Status: WI:-; IA:S3; SD:S5; ND: SNR; MB:S5; ON:-
<i>Taxidea taxus</i>	American badger	--	SC	Never present in large numbers, a solitary species known to be scattered widely across MN; state's population is believed to be declining due to fragmentation and loss of grassland habitat. Adjacent SRank/Status: WI:S4; IA:S4; SD:S5; ND: SNR; MB:S4; ON:S2
<i>Thomomys talpoides</i>	northern pocket gopher	SC	T	Known from dry grasslands at western edge of Kittson Co., but last found in 1991; 2003 survey found no evidence of presence; continuing threat of habitat loss and persecution. (13 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:S5; ND: SNR; MB:S5; ON:-

BIRDS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Accipiter gentilis</i>	northern goshawk	N	SC	Most successful in large blocks of mature upland forest in northern MN; recent surveys find an average of only 25-30 active nests per year in MN; vulnerable to habitat degradation. (109 EOs) Adjacent SRank/Status: WI:S2/SC; IA:SNA; SD:S3; ND:SNA; MB:S5; ON:S4
<i>Aegolius funereus</i>	boreal owl	N	T	A forest owl of northeastern MN that nests almost exclusively in overmature aspen; forages and roosts in lowland conifers; MN survey results show steady decline over past 20 years. (12 EOs) Adjacent SRank/Status: WI:SNA; IA:-; SD:-; ND:-; MB:S5; ON:S4
<i>Ammodramus henslowii</i>	Henslow's sparrow	E	T	Several new colonies of this grassland species have been found in MN in recent years, particularly in the prairie region; some historic populations appear to be recovering. (50 EOs) Adjacent SRank/Status: WI:S2/T; IA:S3/T; SD:SU; ND:-; MB:-; ON:S1 (1996: SC to E)
<i>Chondestes grammacus</i>	lark sparrow	--	SC	Occurs in low densities in oak savanna, dry prairie, and brushy pasture of southeast, central, and northwest MN; approx. 45-50 known nesting locations; recent surveys found few new pop'ns. Adjacent SRank/Status: WI:S2/SC; IA:S4; SD:S5; ND:SNR; MB:S4; ON:SH
<i>Chordeiles minor</i>	common nighthawk	--	SC	This distinctive nocturnal insectivore occurs throughout MN; nests on gravel roofs, but surveys document decline, especially where modern roofing practices no longer provide suitable habitat. Adjacent SRank/Status: WI:S5; IA:S5; SD:S5; ND:SNR; MB:S4; ON:S4
<i>Cygnus buccinator</i>	trumpeter swan	T	SC	Once hunted to near extinction; recovery of MN's population continues, far exceeding MN's restoration goal of 500 birds; population now estimated to exceed 2,000 individuals. (16 EOs) Adjacent SRank/Status: WI:S1/E; IA:S2; SD:S3; ND:SX; MB:SX; ON:S2S3 (1996: --(X) to T)
<i>Dendroica caerulescens</i>	black-throated blue warbler	N	SC	This hardwood forest species is rare in state; recent surveys found areas of unoccupied, but apparently suitable habitat within its northeastern MN range; vulnerable to habitat loss. (91 EOs) Adjacent SRank/Status: WI:S3/SC; IA:SNA; SD:SNA; ND:SNA; MB:SNA; ON:S5
<i>Falco peregrinus</i>	peregrine falcon	T	N	Never having supported more than 40 nesting pairs, MN is home to a pop'n that has adapted to artificial eyries and urban habitats; 43 nesting pairs fledged 83 young in MN in 2005. (85 EOs) Adjacent SRank/Status: WI:S1/E; IA:S1/E; SD:SX; ND:SNR; MB:S1; ON:S2 (1996: E to T)
<i>Haliaeetus leucocephalus</i>	bald eagle	SC	N	Minnesota's population far exceeds original 300 pair recovery goal; adapting to successfully nesting in proximity to humans; 1,312 estimated nests in MN in 2005. (2592 EOs) SRank/Status: WI:S3/SC; IA:S3/E; SD:S1; ND:S1; MB:S4S5; ON:S4; US:T (1996: T to SC)
<i>Lanius ludovicianus</i>	loggerhead shrike	T	E	Likely extirpated from central MN; rare and declining elsewhere in its grassland habitat in southern MN; threatened by habitat conversion and possibly by pesticide exposure. (194 EOs) Adjacent SRank/Status: WI:S1/E; IA:S3; SD:S3S4; ND:SU; MB:S2S3; ON:S2
<i>Tympanuchus cupido</i>	greater prairie-chicken	SC	N	Following a severe decline, restoration efforts have been successful, with a hunting season opened in 2003; at least 2,958 males estimated in western MN in 2005. (812 EOs) Adjacent SRank/Status: WI:S1/T; IA:S1; SD:S4; ND:SNR; MB:SX; ON:SX
<i>Vireo bellii</i>	Bell's vireo	N	SC	Sparsely distributed in suitable shrubby habitat in southeastern MN; approx. 15 known nesting locations; northern edge of range; significant regional declines detected. (13 EOs) Adjacent SRank/Status: WI:S2/T; IA:S3; SD:S4; ND:S3; MB:-; ON:-

AMPHIBIANS AND REPTILES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Ambystoma maculatum</i>	spotted salamander	N	SC	First discovered in MN in 2001, now been found at several locations along the WI border in a ten-mile-dia. area of Pine and Carleton Counties; restricted to forest wetlands. (11 EOs) Adjacent SRank/Status: WI:S4; IA:-; SD:-; ND:-; MB:-; ON:S4
<i>Chelydra serpentina</i>	snapping turtle	SC	N	Recent amendments to Minnesota Rules, Chapter 6256 remove concern regarding impact of commercial harvest. (EOs not maintained) Adjacent SRank/Status: WI:S4; IA:S5; SD:S5; ND:SNR; MB:S3; ON:S5
<i>Elaphe obsoleta</i>	rat snake	SC	T	Extensive surveys have yielded few new records of this forest species; recent discovery of a few dens in southeastern MN could stimulate collection for the pet trade. (4 EOs) Adjacent SRank/Status: WI:S2S3; IA:S4; SD:-; ND:-; MB:-; ON:S3

FISH

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Anguilla rostrata</i>	American eel	--	SC	Spawns in mid-Atlantic Ocean; matures in river headwaters; found in Miss. R. and tributaries, where dams impede migration; evidence of declines throughout range, including in MN. Adjacent SRank/Status: WI:S2/SC; IA:S3?; SD:S3?; ND:-; MB:-; ON:S5
<i>Clinostomus elongatus</i>	redside dace	--	SC	Restricted to perennial headwater reaches of Cannon, Zumbro, Root, and Cedar Rivers, where found consistently but in low numbers; surveys extensive, but incomplete. Adjacent SRank/Status: WI:S3; IA: SX; SD:-; ND:-; MB:-; ON:S3
<i>Coregonus nipigon</i>	Nipigon cisco	--	SC	Taxonomy recently revised. This species only known from Lake Saganaga. Threats include lamprey parasitism, competition with smelt, and recent introduction of exotic plankton. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Etheostoma chlorosoma</i>	bluntnose darter	N	SC	Believed extirpated and so delisted in 1996. Single specimens caught in 1997 in Pine Ck., near La Crescent, Houston Co., and in 2001 in Mississippi R. near Winona, Winona Co. (5 EOs) Adjacent SRank/Status: WI:S1; IA: SX; SD:-; ND:-; MB:-; ON:- (1996: SC to N(X))
<i>Hybognathus nuchalis</i>	Mississippi silvery minnow	--	SC	Evidence of steep declines in numbers and distribution since establishment of Mississippi River dams; spotty distribution in recent years; surveys extensive, but incomplete. Adjacent SRank/Status: WI:S4; IA:S3?; SD:-; ND:-; MB:-; ON:-

MUSSELS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Anodonta suborbiculata</i>	flat floater	--	SC	A single 2001 collection of fresh-dead shells from Pools 7, Miss. River, provides evidence of recent expansion into MN; inhabits soft substrate; surveys extensive. Adjacent SRank/Status: WI:S1S2/SC; IA:S3; SD:S2; ND:-; MB:-; ON:-
<i>Cumberlandia monodonta</i>	spectaclecase	T	E	Known from 8 sites along 85 miles of St. Croix R.; found among large boulders; few large colonies; no new sites since 1996; federal candidate; surveys extensive. (8 EOs) Adjacent SRank/Status: WI:S1/E; IA:S1/E; SD:-; ND:-; MB:-; ON:-; US:C (1996: -- to T)
<i>Elliptio complanata</i>	eastern ellipto	--	SC	Abundant in St. Louis estuary, where it is vulnerable to zebra mussels; also found sparsely in Pigeon R.; both pop'ns are at western edge of range; in soft or coarse substrate. (22 coll'ns) Adjacent SRank/Status: WI:S3/SC; IA:-; SD:-; ND:-; MB:-; ON:S5
<i>Epioblasma triquetra</i>	snuffbox	T	E	Historically widespread, but now rare in Midwest, and extirpated from Miss. R.; in MN, restricted to 16 mile reach of the St. Croix R.; in riffles with coarse substrate. (2 EOs) Adjacent SRank/Status: WI:S1/E; IA:SX; SD:-; ND:-; MB:-; ON:S1/E (1996: -- to T)
<i>Lasmigona compressa</i>	creek heelsplitter	SC	N	Widely distributed in healthy populations in small to medium headwater streams throughout north, central, and southeast MN; occupies sand to fine gravel substrate. (215 EO) Adj SRank/Status: WI:S3S4; IA:S2/T; SD:S1; ND:SNR; MB:SNR; ON:S5 (1996: -- to SC)
<i>Ligumia recta</i>	black sandshell	SC	N	Widely distributed in healthy populations in riffles and raceways of medium to large rivers throughout north, central, and southeast MN; occupies sand to gravel substrate. (375 EOs) Adjacent SRank/Status: WI:S3; IA:S1; SD:S1; ND:S4; MB:SNR; ON:S3 (1996: -- to SC)
<i>Ligumia subrostrata</i>	pondshell	--	T	Known from a few, small pop'ns in the Missouri R. watershed; extirpated from Minn. R. watershed; found in mud or sand of ponds and small streams; surveys complete. (18 coll'ns) Adjacent SRank/Status: WI:-; IA:SX; SD:S1; ND:-; MB:-; ON:-
<i>Megalonaias nervosa</i>	washboard	T	E	Restricted to lower Miss. R., where all pop'ns are threatened by zebra mussels; all recent collections are of old or dead individuals; in mud, sand, or gravel of large rivers. (18 EOs) Adjacent SRank/Status: WI:S3/SC; IA:S4; SD:-; ND:SNR; MB:-; ON:- (1996: -- to T)
<i>Quadrula nodulata</i>	wartyback	E	T	Since 1996, found at 6 new locations on the lower Miss., lower Minn., and St. Croix rivers; of these, only 4 included >10 individuals; in sand or fine gravel of large rivers. (19 EOs) Adjacent SRank/Status: WI:S1S2/T; IA:S1; SD:-; ND:-; MB:-; ON:- (1996: -- to E)
<i>Simpsonaias ambigua</i>	salamander	T	E	Despite extensive surveys, found at only 4 sites on St. Croix R.; extirpated from Minn. and Miss. R.; found in small colonies beneath slabs, boulders, or ledges. (7 EOs) Adjacent SRank/Status: WI:S2S3/T; IA:SX; SD:-; ND:-; MB:-; ON:S1/E (1996: -- to T)
<i>Tritogonia verrucosa</i>	pistolgrip	T	E	In last decade, only found live in a 34 mile reach of lower St. Croix R. mainstem; may be extirpated from Minn. and Miss. Rivers; occupies coarse substrate in large rivers. (55 EOs) Adjacent SRank/Status: WI:S2/T; IA:S2/E; SD:S1; ND:-; MB:-; ON:- (1996: -- to T)
<i>Truncilla donaciformis</i>	fawnsfoot	--	T	Once very abundant on Miss. R.; only known reproducing pop'ns are in Pool 9 and in metro area; recent decline on St. Croix R.; habitat is sand or gravel of large rivers. (44 collections) Adjacent SRank/Status: WI:S1S2/SC; IA:SNR; SD:S2; ND:-; MB:-; ON:S2

SNAILS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Gastrocopta rogersensis</i>	Rogers' snaggletooth snail	--	SC	This landsnail species was formally described in 2001; restricted to small grassy microsites on calcareous bedrock glades in 3 southeastern MN counties; vulnerable to disturbance. Adjacent SRank/Status: WI:SNR; IA:SNR; SD:-; ND:-; MB:-; ON:-
<i>Novisuccinea</i> n. sp. Minnesota A	Minnesota Pleistocene ambersnail	T	N	The taxonomic validity of this purported species has never been confirmed. Until a scientific description is published, status designation must be withdrawn. (7 EOs) Adjacent SRank/Status: WI:-; IA:S1/E; SD:-; ND:-; MB:SNR; ON:- (1996:-- to T)
<i>Novisuccinea</i> n. sp. Minnesota B	Iowa Pleistocene ambersnail	E	N	The taxonomic validity of this purported species has never been confirmed. Until a scientific description is published, status designation must be withdrawn. (5 EOs) Adjacent SRank/Status: WI:-; IA:S1/E; SD:-; ND:-; MB:SNR; ON:- (1996: -- to E)
<i>Planogyra asteriscus</i>	eastern flat-whorl snail	--	SC	Recent surveys have found this species at only 4 locations in northeastern Minnesota. Its association with base-rich soils and old white cedar make it unlikely that many more sites exist. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:-; ON:S2S3
<i>Striatura ferrea</i>	black striate snail	--	T	This species is known from a single site within the city of Duluth, which is the westernmost known occurrence and is disjunct from the nearest known population by 100 miles. Adjacent SRank/Status: WI:S2; IA:-; SD:-; ND:-; MB:-; ON:S5
<i>Vertigo hubrichti variabilis</i> n. subsp.	variable Pleistocene vertigo	T	N	The taxonomic validity of this purported subspecies has never been confirmed. Until a scientific description is published, status designation must be withdrawn. (4 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:- (1996: -- to T)

JUMPING SPIDERS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Habronattus viridipes</i>	a species of jumping spider	--	SC	Collected in low numbers at only 3 sites (Glacial Lakes SP, Pope Co., Kellogg-Weaver Dunes, Wabasha Co., and Seven Sisters Prairie, Otter Tail Co.) despite extensive recent surveys. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Marpissa formosa</i>	a species of jumping spider	--	SC	Collected in low numbers at only 2 sites (Sand Dune State Forest, Sherburne Co. and Lake Carlos SP, Douglas Co.) despite extensive recent surveys; western edge of continental range. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Marpissa grata</i>	a species of jumping spider	SC	N	Recent surveys have found this species to be more widely distributed than previously thought; now collected in good numbers from 7 counties widely distributed across MN. (11 EOs) Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Tutelina formicaria</i>	a species of jumping spider	SC	T	Known from only two protected sites within 1.3 mi dia. area of Anoka Co.; not found elsewhere during recent extensive surveys; at western edge of very spotty continental range. (2 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:- (1996: -- to SC)

LEAFHOPPERS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Attenuipyga vanduzeei</i>	hill prairie shovelhead leafhopper	--	SC	A distinctive and extremely rare leafhopper in eastern North America, this species is known from only 10 sites worldwide; discovered at Queen's Bluff SNA, Winona County, in 2005. Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Macrosteles clavatus</i>	a species of leafhopper	--	SC	A distinctive species found in grasslands at only 3 sites in MN (Town Hall Prairie, Wilkin Co., Sedan, Pope Co., and Mora, Kanabec Co.); only other known collections are from NJ and IL. Adjacent SRank/Status: WI:/; IA:/; SD:/; ND:/; MB:/; ON:/

DRAGONFLIES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Aeshna sitchensis</i>	zigzag darner	--	SC	Boreal species of sphagnum ponds and rich fens; only recent collections are in 3 northwestern MN counties; sparsely distributed elsewhere in northern US and Canada; surveys incomplete. Adjacent SRank/Status: WI:S1; IA:-; SD:-; ND:-; MB:SNR; ON:S4
<i>Aeshna subarctica</i>	subarctic darner	--	SC	Boreal species of forested bogs and rich fens; only MN collections are from Koochiching, Lake of the Woods, and Roseau Cos.; circumpolar, but very few US locations; surveys incomplete. Adjacent SRank/Status: WI:S1/SC; IA:-; SD:-; ND:-; MB:SNR; ON:S1S2
<i>Boyeria grafiana</i>	ocellated darner	--	SC	This species of rocky shorelines has a spotty distribution in eastern NA, but in MN has been collected from only 3 streams in Lake and Cook Counties; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:S3
<i>Leucorrhinia borealis</i>	boreal whiteface	--	SC	More common to the northwest of MN, this species of shallow lakes and prairie ponds has only been found at one Cass Co. site, and possibly at Itasca SP, Clearwater Co.; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:SNR; MB:SNR; ON:S1
<i>Ophiogomphus howei</i>	pygmy snaketail	--	SC	A rare, diminutive dragonfly of fast-flowing water in clear, large streams; in MN, lone healthy pop'n occurs in the St. Croix R.; may also occur on the Miss. R., Itasca Co.; surveys extensive. Adjacent SRank/Status: WI:S3/T; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Somatochlora brevicincta</i>	Quebec emerald	--	SC	A species of poor fens previously known from scattered sites in British Columbia and the Canadian Maritime Provinces; discovered in MN in 2006 in Lake County; surveys incomplete. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Somatochlora ensigera</i>	plains emerald	--	SC	Restricted to scattered small prairie or woodland streams of the Great Plains; known from 3 northern MN counties; vulnerable to habitat loss; surveys incomplete. Adjacent SRank/Status: WI:S1/SC; IA:S3; SD:SNR; ND:SNR; MB:SNR; ON:SH
<i>Somatochlora forcipata</i>	forcipate emerald	--	SC	Widespread to the north, this species is at the southwest edge of its range in MN, where it is known from small streams in boggy areas of Lake and St. Louis Counties; surveys incomplete. Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:SNR; ON:S2

BUTTERFLIES AND MOTHS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Catocala abbreviatella</i>	abbreviated underwing	--	SC	Prairie-obligate moth; leadplant is larval host; only 2 MN prairie sites in Big Stone and Pipestone Cos. represented by coll'ns since 1980; vulnerable to habitat loss; surveys incomplete. Adjacent SRank/Status: WI:S3/SC; IA:SNR; SD:SNR; ND:SNR; MB:-; ON:-
<i>Catocala whitneyi</i>	Whitney's underwing	--	SC	Prairie-obligate moth; leadplant is larval host; only one prairie remnant site in Swift County represented by collections since 1980; vulnerable to habitat loss; surveys are incomplete. Adjacent SRank/Status: WI:S3/SC; IA:SNR; SD:SNR; ND:SNR; MB:SNR; ON:-
<i>Hesperia dactotae</i>	dakota skipper	T	E	Obligat of western MN prairies; appears to be rapidly disappearing from remnant habitat; threatened by habitat degradation and loss; surveys have been extensive. (35 EOs) Adjacent SRank/Status: WI:-; IA:S1/E; SD:S2; ND:S2; MB:S2S3; ON:-; US:C
<i>Hesperia ottoe</i>	ottoe skipper	T	E	Although once sparsely distributed across southern MN, no observations of this species have been made since 1995, despite extensive surveys throughout its range. (12 EOs) Adjacent SRank/Status: WI:S2/SC; IA:S2/SC; SD:S2; ND:SNR; MB:S1?; ON:-
<i>Oarisma powesheik</i>	powesheik skipperling	SC	T	A long history of broad distribution throughout prairie remnants of western MN; extensive surveys in 2003-2006 found this species in very few locations. (185 EOs) Adjacent SRank/Status: WI:S1/E; IA:S1/T; SD:S2; ND:SNR; MB:S2; ON:-
<i>Schinia lucens</i>	leadplant flower moth	--	SC	Prairie-obligate moth; leadplant is larval host; vulnerable to habitat loss; collected at 12 prairie remnant sites in 11 southern or western MN counties since 1980; surveys incomplete. Adjacent SRank/Status: WI:SNR; IA:-; SD:-; ND:-; MB:-; ON:-

CADDISFLIES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Anabolia ozburni</i>	a species of northern caddisfly	--	SC	Recent MN surveys found only 4 sites at the headwaters of the Long Prairie, Otter Tail, and Wild Rice Rivers in Becker, Douglas, and Mahnomen Cos.; Sparsely distributed in eastern NA. Adjacent SRank/Status: WI:SNR/SC; IA:-; SD:-; ND:SNR; MB:-; ON:SNR
<i>Asynarchus rossi</i> (Δ to <i>Limnephilus rossi</i>)	a species of northern caddisfly	SC	T	Previously known only from Valley Creek, Washington Co.; a species of small, fast-flowing streams; found at one other site (Grand Portage Ck., Cook Co.) during recent surveys. (2 EOs) Adjacent SRank/Status: WI:SU/SC; IA:-; SD:-; ND:-; MB:SNR; ON:- (1996: -- to SC)
<i>Ceraclea brevis</i>	a species of caddisfly	SC	N	Existence of this species based on a single 1965 Crow Wing Co. specimen; not collected since; recent studies question its legitimacy; designation must be withdrawn until taxonomy is clarified. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Ceraclea vertreesi</i>	a species of caddisfly	SC	N	Recent studies conclude that the 3 specimens collected in 1989 at the only known MN location were misidentified; designation must be withdrawn until identification is confirmed. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Goera stylata</i>	a species of caddisfly	--	T	Statewide surveys yielded this species only in LaSalle Creek, Itasca SP, Hubbard County, which is broadly disjunct from its known distribution in eastern NA; associated with clear streams. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Hydroptila novicola</i>	a species of purse casemaker caddisfly	SC	N	When listed as SC, this species was known from only 3 MN sites (Lake, St. Louis, and Pine Cos.); in recent surveys, found at 28 sites throughout northern MN; widely distributed in NA. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:- (1996: -- to SC)
<i>Hydroptila quinola</i>	a species of purse casemaker caddisfly	--	SC	Recent surveys found this species in 3 sites in Koochiching and Mower Counties; MN pop'ns are broadly disjunct from the species' known eastern and southeastern NA distribution. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Hydroptila rono</i>	a species of purse casemaker caddisfly	--	T	Found only in Minneopa Ck., Minneopa SP despite extensive MN surveys; widely distributed in western NA, but only other known locations east of Rocky Mts are in Pennsylvania and Quebec. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Hydroptila waskesia</i>	a species of purse casemaker caddisfly	--	E	Extensive statewide surveys found this species at only one slow-flowing, small stream site in the Roseau R. watershed, Roseau Co.; known NA distribution is widely disjunct to south and east. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Ironoquia punctatissima</i>	a species of northern caddisfly	--	T	Restricted to vulnerable small springs and headwater streams; widespread in eastern U.S., but MN surveys found this species only in 2 headwater streams in Martin and Watonwon Counties. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Lepidostoma libum</i>	a species of bizarre caddisfly	--	T	A species of small springs; recent statewide surveys found this caddisfly only in Minneopa Creek, Minneopa SP, Blue Earth Co.; more common in North America to the southeast of MN. Adjacent SRank/Status: WI:S1?/SC; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Limnephilus janus</i>	a species of northern caddisfly	--	E	A caddisfly of smaller, slow-flowing streams; once widely collected in northcentral MN, recent surveys found this species only in Little Elbow Ck, Mahnomen Co.; at southern edge of range. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:SNR; MB:SNR; ON:-

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Limnephilus secludens</i>	a species of northern caddisfly	--	E	This caddisfly of small springs and headwater streams widely collected in MN in the 1930s and 1940s; found at only one Martin County site during recent surveys; at eastern edge of NA range. Adjacent SRank/Status: WI:-; IA:-; SD:SNR; ND:SNR; MB:SNR; ON:-
<i>Ochrotrichia spinosa</i>	a species of purse casemaker caddisfly	--	E	A species of fast-flowing streams; the statewide survey found this species only at Valley Creek, Washington County; -this location is at edge of metropolitan area development. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:SNR; ON:-
<i>Oecetis ditissa</i>	a species of longhorned caddisfly	--	T	Extensive statewide surveys found this species only at Minneopa Creek, Minneopa State Park, Blue Earth County, where it is at the northwestern edge of its continental range. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Oxyethira ecornuta</i>	a species of purse casemaker caddisfly	SC	T	In U.S., known only from 3 medium-sized stream locations within a 30 mi. dia. area in Becker, Clearwater, and Mahnomon Cos., MN; rare and localized in Ontario and Europe. (3 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Parapsyche apicalis</i>	a species of net-spinning caddisfly	--	T	Restricted to small, headwater springs; statewide survey found this species only at one location in Mill Creek, O'Brien State Park, Washington County; at western continental range margin. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Polycentropus glacialis</i>	a species of tube casemaker caddisfly	--	T	Despite extensive statewide surveys, this species found at only one location in MN, a slow-moving stream in Lake Carlos SP, Douglas Co., at the southwestern continental range margin. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:-; ON:-
<i>Polycentropus milaca</i>	a species of tube casemaker caddisfly	SC	E	Endemic to MN; first discovered in Itasca Co. in 1965; in recent survey, found only in low numbers at Big Rice and Mable Lakes, Cass Co.; all sites are within a 50 mi. dia. area. (3 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:- (1996: -- to SC)
<i>Protophila erotica</i>	a species of saddle casemaker caddisfly	--	SC	A species of large, fast-flowing rivers; statewide survey found this species only in Kettle River, Banning SP, Pine County; widely distributed elsewhere from the Great Lakes to the Rocky Mts. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:SNR; ON:-
<i>Protophila talola</i>	a species of caddisfly	SC	N	Existence of this species based on a single 1941 Pine County specimen; not collected since; recent studies question its legitimacy; designation must be withdrawn until taxonomy is clarified. Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:-; ON:SNR (1996: -- to SC)
<i>Triaenodes flavescens</i>	a species of tube casemaker caddisfly	--	SC	A caddisfly of smaller, low-gradient streams; not found during recent statewide surveys, but had been collected from Sucker Brook, Clearwater County in 1988; more common in eastern NA. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:-; ND:-; MB:-; ON:SNR
<i>Ylodes frontalis</i>	a species of longhorned caddisfly	--	T	Only one specimen of this caddisfly was found during statewide survey; site is at Hayes Lake State Park, Roseau County; widely distributed in North America to the north and west. Adjacent SRank/Status: WI:SNR/-; IA:-; SD:SNR; ND:-; MB:SNR; ON:SNR

TIGER BEETLES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Current Status</u>	<u>Draft Status</u>	<u>Explanation</u>
<i>Cicindela denikei</i>	Laurentian tiger beetle	T	SC	Prior to 1996, this species was known from only 5 locations; extensive surveys since 2000 have discovered many additional pop'ns in Lake, St. Louis, and Koochiching Counties. (48 EOs) Adjacent SRank/Status: WI:-; IA:-; SD:-; ND:-; MB:SNR; ON:S3? (1996: -- to T)
<i>Cicindela hirticollis rhodensis</i>	hairy-necked tiger beetle	SC	E	Known only from Minn. Point, Duluth, this tiger beetle was relocated there in very low numbers during intensive 2003 surveys; its beach habitat is heavily impacted by foot traffic. (2 EOs) Adjacent SRank/Status: WI:S2/SC; IA:-; SD:-; ND:-; MB:-; ON:S2? (1996: -- to SC)

DRAFT CHANGES IN SCIENTIFIC NAME **NOT ACCOMPANIED BY A CHANGE IN STATUS**

<u>Taxonomic Group</u>	<u>Old Scientific Name</u>	<u>New Scientific Name</u>	<u>Status</u>
Vascular Plants	<i>Eleocharis olivacea</i>	<i>Eleocharis flavescens</i> var. <i>olivacea</i>	T
	<i>Psoralidium tenuiflora</i>	<i>Psoralidium tenuiflorum</i>	E
	<i>Ruppia maritima</i>	<i>Ruppia cirrhosa</i>	SC
Fungi	<i>Fuscoboletinus weaverae</i>	<i>Suillus weaverae</i>	E
Mammals	<i>Cervus elaphus</i>	<i>Cervus canadensis</i>	SC
	<i>Phenacomys intermedius</i>	<i>Phenacomys ungava</i>	SC
Reptiles and Amphibians	<i>Clemmys insculpta</i>	<i>Glyptemys insculpta</i>	T
	<i>Emydoidea blandingii</i>	<i>Emys blandingii</i>	T
Fish	<i>Ammocrypta asprella</i>	<i>Crystallaria asprella</i>	SC
	<i>Erimystax x-punctata</i>	<i>Erimystax x-punctatus</i>	SC
	<i>Notropis amnis</i>	<i>Hybopsis amnis</i>	SC
Mussels	<i>Pleurobema coccineum</i>	<i>Pleurobema sintoxia</i>	T
Caddisflies	<i>Setodes gutatus</i>	<i>Setodes oligius</i>	SC
Butterflies and Moths	<i>Atrytone aragos</i>	<i>Atrytone aragos</i> subsp. <i>iowa</i>	SC

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