

## LISTED SPECIES OF CONCERN

## APPENDIX W-I

Scientific Name <sup>(a)</sup> (Common Name) <sup>(b)</sup>	Group <sup>(c)</sup>	EO <sup>(d)</sup>	Last obs Year <sup>(e)</sup>	State Rank <sup>(f)</sup>	Global Rank <sup>(g)</sup>	State Stat <sup>(h)</sup>	Fed. Stat <sup>(i)</sup>
<i>Cicindela patruela patruela</i> (Tiger Beetle)	Beetle	4	2001	S2	G3,T3	SC/N	
<i>Agabus bicolor</i> (Predaceous Diving Beetle)	Beetle	2	2004	S3	GNR	SC/N	
<i>Cicindela hirticollis rhodensis</i> (Beach-dune Tiger Beetle)	Beetle	4	2003	S2	G5,T4	SC/N	
<i>Cymbiodyta acuminata</i> (Water Scavenger Beetle)	Beetle	2	1996	S3	GNR	SC/N	
<i>Cymbiodyta minima</i> (Water Scavenger Beetle)	Beetle	1	1996	S3	GNR	SC/N	
<i>Haliphus canadensis</i> (Crawling Water Beetle)	Beetle	1	1996	S2	GNR	SC/N	
<i>Haliphus pantherinus</i> (Crawling Water Beetle)	Beetle	2	1996	S2,S3	GNR	SC/N	
<i>Hydroporus badiellus</i> (Predaceous Diving Beetle)	Beetle	2	1996	S3	GNR	SC/N	
<i>Hydroporus pseudovilis</i> (Predaceous Diving Beetle)	Beetle	1	1996	S1,S2	GNR	SC/N	
<i>Hydroporus vittatus</i> (Predaceous Diving Beetle)	Beetle	4	1996	S3	GNR	SC/N	
<i>Accipiter gentilis</i> (Northern Goshawk)	Bird	2	1997	S2B,S2N	G5	SC/M	
<i>Bartramia longicauda</i> (Upland Sandpiper)	Bird	6	2000	S2B	G5	SC/M	
<i>Dendroica caerulescens</i> (Black-throated Blue Warbler)	Bird	1	1996	S3B	G5	SC/M	
<i>Dendroica cerulea</i> (Cerulean Warbler)	Bird	1	1996	S2,S3B	G4	THR	
<i>Dendroica kirtlandii</i> (Kirtland's Warbler)	Bird	3	1989	SN,SAB	G1	SC/FL	LE
<i>Dendroica tigrina</i> (Cape May Warbler)	Bird	4	1997	S3B	G5	SC/M	
<i>Oporornis agilis</i> (Connecticut Warbler)	Bird	7	2004	S2,S3B	G4	SC/M	
<i>Sturnella neglecta</i> (Western Meadowlark)	Bird	6	1999	S2B	G5	SC/M	
<i>Tympanuchus phasianellus</i> (Sharp-tailed Grouse)	Bird	1	1996	S1B,S2N	G4	SC/M	
<i>Ammodramus leconteii</i> (Le Conte's Sparrow)	Bird	4	2000	S2,S3B	G4	SC/M	
<i>Botaurus lentiginosus</i> (American Bittern)	Bird	4	1997	S3B	G4	SC/M	
<i>Charadrius melodus</i> (Piping Plover)	Bird	2	1980	S1	G3,T3	END	LE
<i>Chlidonias niger</i> (Black Tern)	Bird	2	1997	S3B	G4	SC/M	
<i>Coturnicops noveboracensis</i> (Yellow Rail)	Bird	1	1996	S1B	G4	THR	
<i>Cygnus buccinator</i> (Trumpeter Swan)	Bird	1	1999	S3B	G4	END	
<i>Haliaeetus leucocephalus</i> (Bald Eagle)	Bird	45	2002	S4B,S2N	G5	SC/FL	LT,PD
<i>Ixobrychus exilis</i> (Least Bittern)	Bird	3	1997	S3B	G5	SC/M	
<i>Pandion haliaetus</i> (Osprey)	Bird	18	1996	S3,S4B	G5	THR	
<i>Sterna caspia</i> (Caspian Tern)	Bird	1	1991	S1B,S2N	G5	END	
<i>Sterna hirundo</i> (Common Tern)	Bird	2	2001	S1B,S2N	G5	END	
<i>Atrytonopsis hianna</i> (Dusted Skipper)	Butterfly	1	1977	S3	G4,G5	SC/N	
<i>Callophrys henrici</i> (Henry's Elfin)	Butterfly	1	1994	S1,S2	G5	SC/N	
<i>Hesperia leonardus</i> (Leonard's Skipper)	Butterfly	1	1999	S3	G4	SC/N	
<i>Hesperia metea</i> (Cobweb Skipper)	Butterfly	1	1996	S2	G4,G5	SC/N	
<i>Oeneis chryxus</i> (Chryxus Arctic)	Butterfly	3	1996	S2	G5	SC/N	
<i>Boloria chariclea</i> (Arctic Fritillary)	Butterfly	6	1996	S1,S2	G5	SC/N	
<i>Boloria eunomia</i> (Bog Fritillary)	Butterfly	14	1996	S3	G5	SC/N	
<i>Boloria freija</i> (Freija Fritillary)	Butterfly	9	2004	S2,S3	G5	SC/N	
<i>Boloria frigga</i> (Frigga Fritillary)	Butterfly	1	1996	S2	G5	SC/N	

## Continued...

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<i>Erebia discoidalis</i> (Red-disked Alpine)	Butterfly	2	1996	S2	G5	SC/N	
<i>Lycaena dorcas</i> (Dorcas Copper)	Butterfly	3	1996	S1,S2	G5	SC/N	
<i>Pompeius verna</i> (Little Glassy Wing)	Butterfly	1	1957	S1	G5	SC/N	
<i>Lepidostoma libum</i> (A Lepidostomatid Caddisfly)	Caddisfly	1	1996	S1	G3,G4	SC/N	
Boreal forest (Boreal Forest)	Community	9	1997	S2	G3	NA	
Dry cliff (Dry Cliff)	Community	1	1996			NA	
Mesic floodplain terrace (Mesic Floodplain Terrace)	Community	1	1996	S2	GNR	NA	
Moist cliff (Moist Cliff)	Community	1	1975			NA	
Northern dry forest (Northern Dry Forest)	Community	1	1980	S3	G5	NA	
Northern dry-mesic forest (Northern Dry-mesic Forest)	Community	11	1996	S3	G4	NA	
Northern mesic forest (Northern Mesic Forest)	Community	3	2005	S4	G4	NA	
Pine barrens (Pine Barrens)	Community	1	1976	S2	G2	NA	
Alder thicket (Alder Thicket)	Community	2	1997	S4	G4	NA	
Black spruce swamp (Black Spruce Swamp)	Community	1	1996	S3	G5	NA	
Emergent marsh (Emergent Marsh)	Community	8	1997	S4	G4	NA	
Floodplain forest (Floodplain Forest)	Community	1	1994	S3	G3	NA	
Great lakes beach (Great Lakes Beach)	Community	2	1994			NA	
Great lakes dune (Great Lakes Dune)	Community	1	1996			NA	
Hardwood swamp (Hardwood Swamp)	Community	3	1997	S3	G4	NA	
Inland beach (Inland Beach)	Community	2	2000			NA	
Interdunal wetland (Interdunal Wetland)	Community	1	2000	S1	G2	NA	
Lake--deep, soft, seepage (Lake--Deep, Soft, Seepage)	Community	1	1997			NA	
Lake--shallow, soft, drainage (Lake--Shallow, Soft, Drainage)	Community	1	1980			NA	
Lake--shallow, soft, seepage (Lake--Shallow, Soft, Seepage)	Community	3	2003			NA	
Lake--soft bog (Lake--Soft Bog)	Community	2	1982			NA	
Northern sedge meadow (Northern Sedge Meadow)	Community	4	2000	S3	G4	NA	
Northern wet forest (Northern Wet Forest)	Community	4	2005	S4	G4	NA	
Northern wet-mesic forest (Northern Wet-mesic Forest)	Community	4	1996	S3,S4	G3	NA	
Open bog (Open Bog)	Community	4	1996	S4	G5	NA	
Poor fen (Poor Fen)	Community	1	1996	S3	G3,G4	NA	
Shrub-carr (Shrub-carr)	Community	1	1982	S4	G5	NA	
Spring pond (Spring Pond)	Community	1	1982			NA	
Springs and spring runs, hard (Springs and Spring Runs, Hard)	Community	1	1980	S4	GNR	NA	
Springs and spring runs, soft (Springs and Spring Runs, Soft)	Community	2	1996	SU	GNR	NA	
Stream--fast, hard, cold (Stream--Fast, Hard, Cold)	Community	1	1996	S4	GNR	NA	
Stream--fast, soft, cold (Stream--Fast, Soft, Cold)	Community	1	1996	SU	GNR	NA	
Submergent marsh (Submergent Marsh)	Community	1	1996	S4	G5	NA	
Tamarack (poor) swamp (Tamarack (Poor) Swamp)	Community	1	1996	S3	G4	NA	
<i>Aeshna eremita</i> (Lake Darner)	Dragonfly	3	2002	S3	G5	SC/N	

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<i>Aeshna subarctica</i> (Subarctic Darner)	Dragonfly	2	1998	S1	G5	SC/N	
<i>Chromagrion conditum</i> (Aurora Damselfly)	Dragonfly	4	1996	S3	G5	SC/N	
<i>Enallagma vernale</i> (Gloyd's Bluet)	Dragonfly	2	1996	S1	G4	SC/N	
<i>Gomphus graslinellus</i> (Pronghorned Clubtail)	Dragonfly	2	1996	S2	G5	SC/N	
<i>Nannothemis bella</i> (Elfin Skimmer)	Dragonfly	1	1995	S2,S3	G4	SC/N	
<i>Ophiogomphus howei</i> (Pygmy Snaketail)	Dragonfly	2	1999	S3	G3	THR	
<i>Somatochlora forcipata</i> (Forcinate Emerald)	Dragonfly	4	1997	S2	G5	SC/N	
<i>Sympetrum danae</i> (Black Meadowhawk)	Dragonfly	2	1998	S3	G5	SC/N	
<i>Acipenser fulvescens</i> (Lake Sturgeon)	Fish	2	1981	S3	G3,G4	SC/H	
<i>Anguilla rostrata</i> (American Eel)	Fish	3	1993	S2	G4	SC/N	
<i>Etheostoma microperca</i> (Least Darter)	Fish	2	1983	S3	G5	SC/N	
<i>Fundulus diaphanus</i> (Banded Killifish)	Fish	2	1983	S3	G5	SC/N	
<i>Moxostoma valenciennesi</i> (Greater Redhorse)	Fish	3	1989	S3	G4	THR	
<i>Notropis texanus</i> (Weed Shiner)	Fish	1	1908	S3	G5	SC/N	
<i>Percina evides</i> (Gilt Darter)	Fish	2	1977	S2	G4	THR	
<i>Canis lupus</i> (Gray Wolf)	Mammal	6	2006	S2	G4	SC/P	
<i>Spermophilus franklinii</i> (Franklin's Ground Squirrel)	Mammal	2	2001	S2	G5	SC/N	
<i>Hemileuca</i> sp. 3 (Midwestern Fen Buckmoth)	Moth	1	1980	S3	G5,T4	SC/N	
<i>Alasmidonta marginata</i> (Elktoe)	Mussel	1	1997	S4	G4	SC/H	
<i>Cyclonaias tuberculata</i> (Purple Wartyback)	Mussel	1	1997	S1,S2	G5	END	
<i>Pleurobema sintoxia</i> (Round Pigtoe)	Mussel	1	1997	S3	G4	SC/H	
Bird Rookery (Bird Rookery)	Other	1	1997	SU	GNR	SC	
Migratory Bird Concentration Site (Migratory Bird Concentration Site)	Other	1	1996	SU	GNR	SC	
<i>Asclepias ovalifolia</i> (Dwarf Milkweed)	Plant	4	1996	S3	G5	THR	
<i>Botrychium minganense</i> (Mingan's Moonwort)	Plant	1	1979	S2	G4	SC	
<i>Botrychium rugulosum</i> (Rugulose Grape-fern)	Plant	1	1938	S2	G4	SC	
<i>Carex nigra</i> (Smooth Black Sedge)	Plant	3	2001	S1	G5	SC	
<i>Carex richardsonii</i> (Richardson Sedge)	Plant	2	1996	S2	G5	SC	
<i>Cirsium flodmanii</i> (Flodman Thistle)	Plant	3	1996	S1	G5	SC	
<i>Cirsium hillii</i> (Hill's Thistle)	Plant	1	1915	S3	G3	THR	
<i>Cirsium pitcheri</i> (Dune Thistle)	Plant	1	1998	S2	G3	THR	LT
<i>Clematis occidentalis</i> (Purple Clematis)	Plant	3	1996	S3	G5	SC	
<i>Cystopteris laurentiana</i> (Laurentian Bladder Fern)	Plant	3	1985	S2,S3	G3	SC	
<i>Deschampsia flexuosa</i> (Crinkled Hairgrass)	Plant	1	1997	S3	G5	SC	
<i>Dryopteris fragrans</i> var. <i>remotiuscula</i> (Fragrant Fern)	Plant	5	1996	S3	G5,T5	SC	
<i>Eriophorum alpinum</i> (Alpine Cotton-grass)	Plant	1	1996	S2	G5	SC	
<i>Huperzia selago</i> (Fir Clubmoss)	Plant	2	1996	S2	G5	SC	
<i>Leucophysalis grandiflora</i> (Large-flowered Ground-cherry)	Plant	1	1897	S1	G4	SC	
<i>Platanthera hookeri</i> (Hooker Orchis)	Plant	2	2001	S2,S3	G4	SC	

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<i>Platanthera orbiculata</i> (Large Roundleaf Orchid)	Plant	7	1996	S3	G5	SC	
<i>Pyrola minor</i> (Lesser Wintergreen)	Plant	1	1996	S1	G5	END	
<i>Ribes oxycanthoides</i> (Canada Gooseberry)	Plant	1	1981	S2	G5	THR	
<i>Salix planifolia</i> (Tea-leaved Willow)	Plant	4	2001	S2	G5	THR	
<i>Vaccinium vitis-idaea</i> ssp. <i>minus</i> (Mountain Cranberry)	Plant	1	1930	S1	G5,T5	END	
<i>Woodsia oregana</i> var. <i>cathcartiana</i> (Oregon Woodsia (Tetraploid))	Plant	1	1940	S1	G5,T5	SC	
<i>Arethusa bulbosa</i> (Swamp-pink)	Plant	3	1996	S3	G4	SC	
<i>Calamagrostis stricta</i> (Slim-stem Small-reedgrass)	Plant	3	1996	S3	G5	SC	
<i>Callitriche hermaphroditica</i> (Autumnal Water-starwort)	Plant	4	1996	S2	G5	SC	
<i>Caltha natans</i> (Floating Marsh-marigold)	Plant	2	1995	S1	G5	END	
<i>Calypso bulbosa</i> (Fairy Slipper)	Plant	6	1996	S3	G5	THR	
<i>Carex crawei</i> (Crawe Sedge)	Plant	1	1996	S3	G5	SC	
<i>Carex tenuiflora</i> (Sparse-flowered Sedge)	Plant	6	1996	S3	G5	SC	
<i>Carex vaginata</i> (Sheathed Sedge)	Plant	11	1996	S3	G5	SC	
<i>Cypripedium parviflorum</i> var. <i>makasin</i> (Northern Yellow Lady-slipper)	Plant	10	1996	S3	G5,T4Q	SC	
<i>Cypripedium reginae</i> (Showy Lady's-slipper)	Plant	6	1996	S3	G4	SC	
<i>Eleocharis compressa</i> (Flat-stemmed Spike-rush)	Plant	1	2001	S2	G4	SC	
<i>Eleocharis mamillata</i> (Spike-rush)	Plant	1	1995	S1	G4	SC	
<i>Eleocharis nitida</i> (Slender Spike-rush)	Plant	18	2001	S2	G3,G4	END	
<i>Epilobium palustre</i> (Marsh Willow-herb)	Plant	10	1996	S2	G5	SC	
<i>Equisetum palustre</i> (Marsh Horsetail)	Plant	8	2002	S2	G5	SC	
<i>Equisetum variegatum</i> (Variegated Horsetail)	Plant	3	1997	S3	G5	SC	
<i>Eriophorum chamissonis</i> (Russet Cotton-grass)	Plant	2	1996	S2	G5	SC	
<i>Juncus vaseyi</i> (Vasey Rush)	Plant	29	2003	S3	G5	SC	
<i>Littorella americana</i> (American Shore-grass)	Plant	1	1931	S2	G5	SC	
<i>Ophioglossum pusillum</i> (Adder's-tongue)	Plant	4	1995	S2	G5	SC	
<i>Parnassia palustris</i> (Marsh Grass-of-parnassus)	Plant	3	2005	S2	G5	THR	
<i>Petasites sagittatus</i> (Arrow-leaved Sweet-coltsfoot)	Plant	27	2001	S2	G5	THR	
<i>Ranunculus cymbalaria</i> (Seaside Crowfoot)	Plant	13	2000	S2	G5	THR	
<i>Ranunculus gmelinii</i> (Small Yellow Water Crowfoot)	Plant	13	2001	S2	G5	END	
<i>Ranunculus lapponicus</i> (Lapland Buttercup)	Plant	2	1996	S1	G5	END	
<i>Rhynchospora fusca</i> (Brown Beakrush)	Plant	1	1996	S2	G4,G5	SC	
<i>Ribes hudsonianum</i> (Northern Black Currant)	Plant	11	1996	S3	G5	SC	
<i>Scirpus torreyi</i> (Torrey's Bulrush)	Plant	2	1964	S2	G5	SC	
<i>Senecio congestus</i> (Marsh Ragwort)	Plant	2	1960	SH	G5	SC	
<i>Sparganium glomeratum</i> (Northern Bur-reed)	Plant	18	2002	S2	G4	THR	
<i>Thalictrum venulosum</i> (Veined Meadowrue)	Plant	1	1997	S1	G5	SC	
<i>Triglochin maritima</i> (Common Bog Arrow-grass)	Plant	3	2004	S3	G5	SC	
<i>Utricularia resupinata</i> (Northeastern Bladderwort)	Plant	1	1930	S3	G4	SC	
<i>Hemidactylium scutatum</i> (Four-toed Salamander)	Salamander	4	1996	S3	G5	SC/H	
<i>Vertigo paradoxa</i> (Mystery Vertigo)	Snail	1	1997	S1	G3,G4Q	SC/N	

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Zoogenetes harpa (Boreal Top)	Snail	1	1997	S1	G5	SC/N	
Isoperla bilineata (A Perlodid Stonefly)	Stonefly	1	1996	S3	G5	SC/N	
Isoperla marlynia (A Perlodid Stonefly)	Stonefly	1	1996	S3	G5	SC/N	
Clemmys insculpta (Wood Turtle)	Turtle	10	2002	S2	G4	THR	
Emydoidea blandingii (Blanding's Turtle)	Turtle	3	2006	S3	G4	THR	

## Listed Species of Concern - Key

(a) **Scientific Name** – Scientific name used by the Wisconsin Natural Heritage Inventory Program.

(b) **Common Name** – Standard, contrived, or agreed upon common names.

(c) **Group** – General classification.

(d) **EO** – Elements of occurrence count.

(e) **Last obs Year** – Last observation year.

(f) **State Rank** – System for assessing the rarity of the elements at the State (S) level.

**S1** – Critically imperiled in Wisconsin because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extirpation from the state.

**S2** – Imperiled in Wisconsin because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extirpation from the state.

**S3** – Rare or uncommon in Wisconsin (21 to 100 occurrences).

**S4** – Apparently secure in Wisconsin, with many occurrences.

**S5** – Demonstrably secure in Wisconsin and essentially ineradicable under present conditions.

**SA** – Accidental (occurring only once or a few times) or casual (occurring more regularly although not every year); a few of these species (typically long-distance migrants such as some birds and butterflies) may have even bred on one or more of the occasions when they were recorded.

**SH** – Of historical occurrence in Wisconsin, perhaps having not been verified in the past 20 years, and suspected to be still extant. Naturally, an element would become SH without such a 20-year delay if the only known occurrence were destroyed or if it had been extensively and unsuccessfully looked for.

**SN** – Regularly occurring, usually migratory and typically non-breeding species for which no significant or effective habitat conservation measures can be taken in Wisconsin. This category includes migratory birds and bats that pass through twice a year or, may remain in the winter (or, in a few cases, the summer) along with certain lepidoptera which regularly migrate to Wisconsin where they reproduce, but then completely die out every year with no return migration. Species in this category are so widely and unreliably distributed during migration or in winter that no small set of sites could be set aside with the hope of significantly furthering their conservation.

**SU** – Possibly in peril in the state, but their status is uncertain. More information is needed.

Ranking long distance aerial migrant animals presents special problems relating to the fact that their non-breeding status (rank) may be quite different from their breeding status, if any, in Wisconsin. In other words, the conservation needs of these taxa may vary between seasons. In order to present a less ambiguous picture of a migrant's status, it is necessary to specify whether the rank refers to the breeding (B) or non-breeding (N) status of the taxon in question. (i.e. S2B, S5N).

(g) **Global Rank** – System for assessing the rarity of the elements at the Global (G) level.

**G1** – Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

**G2** – Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.

**G3** – Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single state or physiographic region) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 to 100.

**G4** – Apparently globally secure, though it may be quite rare in parts of its range, especially at the periphery.

**G5** – Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

**GH** – Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered.

**GNR** – Not ranked. Replaced G? rank and some GU ranks

Species with a questionable taxonomic assignment are given a "Q" after the global rank.

Subspecies and varieties are given subranks composed of the letter "T" plus a number or letter. The definition of the second character of the subrank parallels that of the full global rank. (Examples: a rare subspecies of a rare species is ranked G1T1; a rare subspecies of a common species is ranked G5T1.)

**(h) State Stat** – Protection category designated by the Wisconsin DNR.

**END** – Endangered

**THR** – Threatened

**SC** – Special Concern

**SC/P** – Fully protected.

**SC/N** – No laws regulating use, possession, or harvesting.

**SC/H** – Take regulated by establishment of open closed seasons.

**SC/FL** – Federally protected as endangered or threatened, but not so designated by WDNR.

**SC/M** – Fully protected by federal and state laws under the Migratory Bird Act.

**NA** – Not Applicable

**(i) Fed Stat** – Federal protection status designated by the Office of Endangered Species, U.S. Fish and Wildlife Service indicating the biological status of a species in the United States.

**LE** – Listed endangered

**LT** – Listed threatened

**LT,PD** – Listed threatened, proposed for de-listing