

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Ecological Subsections | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---------------------------|-------------------------------|------------------------|------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|--------------------------------|---------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|
| | | | | Agassiz Lowlands | Anoka Sand Plain | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coreau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coreau | Laurentian Uplands | Littlerfork-Vermillion Uplands | Millie Laes Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands |
| 14 | Ma | Canis lupus | Gray Wolf | X | | X | | | X | X | | X | | | X | X | X | | X | 3 | | X | | | X | | X | X |
| 2 | Ma | Cervus elaphus | Elk | X | | X | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Ma | Cryptotis parva | Least Shrew | | | | | X | | | | | | X | | | | | | | | | | | | | | |
| 10 | Ma | Lynx canadensis | Lynx | X | | | | | X | X | | | | X | X | X | | X | X | | | | | X | | | | X |
| 3 | Ma | Microtus chrotorrhinus | Rock Vole | | | | | | 42 | | | | | 32 | | | | 13 | | | | | | | | | | |
| 12 | Ma | Microtus ochrogaster | Prairie Vole | | 2 | | 1 | X | | | 13 | | X | 1 | | | 19 | | | 3 | 11 | 5 | X | | X | | | |
| 1 | Ma | Microtus pinetorum | Woodland Vole | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 12 | Ma | Mustela nivalis | Least Weasel | X | X | X | X | | | | X | | X | X | | X | X | | X | | X | | | | X | | | |
| 5 | Ma | Myotis septentrionalis | Northern Myotis | | X | | | 10 | | X | | | | | | | 9 | | | | | | | | X | | | |
| 4 | Ma | Onychomys leucogaster | Northern Grasshopper Mouse | | | | | | | | X | | X | | | 3 | | | | | | 5 | | | | | | |
| 5 | Ma | Perognathus flavescens | Plains Pocket Mouse | | 7 | | | | | | X | | X | | | X | | | | | | 1 | | | | | | |
| 3 | Ma | Phenacomys intermedius | Heather Vole | | | | | | X | | | | | 3 | | | | X | | | | | | | | | | |
| 7 | Ma | Pipistrellus subflavus | Eastern Pipistrelle | | | | 1 | 13 | | | | | | | | X | | 1 | X | | | | 5 | | X | | | |
| 10 | Ma | Reithrodontomys megalotis | Western Harvest Mouse | | X | | 1 | 2 | | | X | | X | 1 | | | 26 | | 1 | | | X | | X | | X | | |
| 3 | Ma | Sorex fumeus | Smoky Shrew | | | | | | 14 | | | | | 9 | | | | 6 | | | | | | | | | | |
| 23 | Ma | Spermophilus franklinii | Franklin's Ground Squirrel | X | X | X | X | X | | X | X | X | X | X | X | | X | 1 | X | 1 | X | X | X | X | 1 | X | X | X |
| 4 | Ma | Spermophilus richardsonii | Richardson's Ground Squirrel | | | | | | | | X | | X | | | | 4 | | | | | 1 | | | | | | |
| 19 | Ma | Spilogale putorius | Eastern Spotted Skunk | | X | X | 1 | X | | X | X | X | X | X | | X | 2 | | X | X | X | X | X | X | X | X | X | X |
| 3 | Ma | Synaptomys borealis | Northern Bog Lemming | X | | | | | | | | | | X | | | | | | | | | | 1 | | | | |
| 24 | Ma | Taxidea taxus | American Badger | X | 1 | X | X | X | | X | X | X | X | X | X | X | 1 | X | X | X | X | X | X | X | X | X | X | X |
| 2 | Ma | Thomomys talpoides | Northern Pocket Gopher | | | X | | | | | | | | | | | | | | | | 4 | | | | | | |
| 13 | Bi | Accipiter gentilis | Northern Goshawk | 1 | | | | | 3 | 40 | | 1 | | | | | 3 | 3 | 5 | | 7 | | | 5 | | 4 | 3 | |
| 5 | Bi | Aechmophorus occidentalis | Western Grebe | | | 1 | 1 | | | | X | | X | | | | 6 | | | | | | | | | | | |
| 4 | Bi | Aegolius funereus | Boreal Owl | X | | | | | 1 | | | | | 2 | | | | | 2 | | | | | | | | | |
| 2 | Bi | Ammodramus bairdii | Baird's Sparrow | | | 4 | | | | | | | | | | | | | | | | 2 | | | | | | |
| 7 | Bi | Ammodramus henslowii | Henslow's Sparrow | | | | 4 | 4 | | | | | | | | | 11 | | 1 | | 3 | 1 | | 1 | | | | |
| 17 | Bi | Ammodramus leconteii | Le Conte's Sparrow | 34 | X | 167 | | | X | 18 | | X | 7 | 2 | X | 9 | | X | 1 | | 9 | 30 | | 2 | | 10 | X | |
| 9 | Bi | Ammodramus nelsoni | Nelson's Sharp-tailed Sparrow | 6 | | 72 | | | | 14 | | | 7 | | | 10 | | | | | 3 | 8 | | X | | 7 | | |
| 14 | Bi | Ammodramus savannarum | Grasshopper Sparrow | | 28 | 30 | 14 | 6 | | | 5 | | 9 | X | | 8 | 93 | | | 9 | 2 | 1 | 2 | | 3 | | | |
| 9 | Bi | Anas acuta | Northern Pintail | | X | 11 | X | | | | X | | X | X | | | 5 | | | | | 2 | | | X | | | |
| 10 | Bi | Anas rubripes | American Black Duck | X | | | | | X | 1 | | | | | X | X | | X | X | | | | | X | | X | X | |
| 2 | Bi | Anthus spragueii | Sprague's Pipit | | | 3 | | | | | | | | | | | | | | | | X | | | | | | |

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Ecological Subsections | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------|----------------------------|--------------------------|------------------------|-------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|--------------------------------|---------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|
| | | | | Agassiz Lowlands | Anoka Sand Plains | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coreau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coreau | Laurentian Uplands | Littlerfork-Vermillion Uplands | Millie Lacs Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands |
| 5 | Bi | Seiurus motacilla | Louisiana Waterthrush | | 4 | | | 61 | | | | | | | | 53 | | | | | | | X | | | 8 | | |
| 4 | Bi | Speotyto cunicularia | Burrowing Owl | | | | | | | 1 | | 3 | | | | 1 | | | | | | X | | | | | | |
| 23 | Bi | Sphyrapicus varius | Yellow-bellied Sapsucker | 3 | 1 | 25 | 16 | 66 | 6 | 4 | | 3 | 23 | | 7 | X | 44 | 41 | X | 22 | 3 | 27 | 1 | 3 | 28 | 1 | 5 | X |
| 11 | Bi | Spiza americana | Dickcissel | | X | | 10 | 1 | | | 2 | | 1 | X | | | 37 | | | 3 | | X | 3 | | X | | | |
| 13 | Bi | Spizella pusilla | Field Sparrow | | 48 | | 71 | 104 | | | 1 | | 7 | X | | 12 | 86 | | | 10 | 17 | 1 | 8 | | 10 | | | |
| 25 | Bi | Stelgidopteryx serripennis | Northern Rough-winged | X | 4 | 1 | 7 | 42 | X | X | 1 | X | 3 | X | X | X | 4 | 15 | X | X | X | 2 | 2 | 2 | X | 6 | X | X |
| 11 | Bi | Sterna forsteri | Forster's Tern | 1 | | | 11 | 7 | | | 1 | 1 | | 8 | X | | X | 17 | | | | X | | | 3 | | | |
| 4 | Bi | Sterna hirundo | Common Tern | 5 | | | | | | | | | | | | 3 | | | | 2 | | 5 | | | | | | |
| 20 | Bi | Sturnella magna | Eastern Meadowlark | | 16 | | 19 | 22 | X | X | | X | 2 | | X | X | 22 | 5 | X | X | 4 | 1 | | 3 | X | 2 | X | X |
| 25 | Bi | Toxostoma rufum | Brown Thrasher | X | 6 | 43 | 15 | 14 | X | X | 1 | X | 2 | X | X | X | 3 | 38 | X | 1 | 4 | 4 | 5 | X | X | 6 | X | X |
| 25 | Bi | Tringa melanoleuca | Greater Yellowlegs | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 18 | Bi | Troglodytes troglodytes | Winter Wren | 7 | | 8 | | 8 | 3 | 5 | | X | 2 | | 9 | X | 14 | 2 | X | 34 | | 8 | | | 7 | 3 | 4 | X |
| 23 | Bi | Tryngites subruficollis | Buff-breasted Sandpiper | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 4 | Bi | Tympanuchus cupido | Greater Prairie-chicken | | | 151 | | | | | | | | | | | 9 | | | | | 55 | 306 | | | | | |
| 9 | Bi | Tympanuchus phasianellus | Sharp-tailed Grouse | 5 | | 13 | | | | | X | | | | | X | X | | X | | | X | | | X | | X | |
| 14 | Bi | Vermivora chrysoptera | Golden-winged Warbler | 3 | | | | | X | 4 | | 1 | 24 | | X | X | 65 | | X | 3 | | 28 | | | 4 | | 13 | X |
| 6 | Bi | Vermivora pinus | Blue-winged Warbler | | X | | 17 | 64 | | | | | | | | | 6 | | | | | | 4 | | 2 | | | |
| 6 | Bi | Vireo bellii | Bell's Vireo | | | | X | 9 | | | | | | | | | X | | | X | | | X | | 2 | | | |
| 13 | Bi | Wilsonia canadensis | Canada Warbler | X | | | | | 3 | 1 | | 5 | | | 7 | X | 8 | | X | 46 | | 2 | | | 3 | | 3 | X |
| 2 | Bi | Wilsonia citrina | Hooded Warbler | | | | | | | | | | | | | | | | | | | 1 | | | | 9 | | |
| 15 | Bi | Zonotrichia albicollis | White-throated Sparrow | 63 | | 68 | | | 9 | 23 | | 3 | 11 | | 24 | X | 28 | | X | 80 | | 9 | | | 7 | | 7 | X |
| 3 | Re | Apalone mutica | Smooth Softshell | | | | 9 | 37 | | | | | | | | | | | | | | | | | | 2 | | |
| 25 | Re | Chelydra serpentina | Common Snapping Turtle | X | 15 | X | 6 | X | X | X | X | 5 | 5 | X | X | X | 5 | X | X | X | X | 3 | X | X | X | 14 | X | X |
| 11 | Re | Clemmys insculpta | Wood Turtle | | 2 | | 9 | 15 | | | | 71 | | | | | 25 | | | 44 | 16 | | | 5 | 4 | 38 | 11 | |
| 3 | Re | Cnemidophorus sexlineatus | Six-lined Racerunner | | | | | X | | | | | | | | | | | | | | | X | | X | | | |
| 5 | Re | Coluber constrictor | Eastern Racer | | | | 6 | 19 | | | | | | | | | | | | | | X | | 1 | 1 | | | |
| 3 | Re | Crotalus horridus | Timber Rattlesnake | | | | | 134 | | | | | | | | | | | | | | | | 6 | | X | | |
| 1 | Re | Elaphe obsoleta | Eastern Rat Snake | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 9 | Re | Elaphe vulpina | Eastern Fox Snake | | 1 | | 1 | 44 | | | | X | | | X | | | 31 | | | 6 | | | 10 | | 7 | | |
| 13 | Re | Emydoidea blandingii | Blanding's Turtle | | 207 | | 30 | 26 | | | X | | 38 | 6 | | | 86 | 10 | | 5 | 12 | 155 | | 12 | | 83 | | |
| 3 | Re | Eumeces fasciatus | Five-lined Skink | | | | | 6 | | | | | | | | | | | | | | | | | | X | | |
| 9 | Re | Heterodon nasicus | Western Hognose Snake | | 9 | | 1 | X | | | | | | | | | 2 | 6 | | | X | | 3 | X | X | | | |
| 6 | Re | Heterodon platirhinos | Eastern Hognose Snake | | 2 | | | 12 | | | | | | | | | 9 | | | | | | 1 | X | | 2 | | |

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Agassiz Lowlands | Anoka Sand Plain | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coteau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coteau | Laurentian Uplands | Littlerfork-Vermillion Uplands | Mille Lacs Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands | |
|------------------|------|-------------------------|----------------------------|------------------|------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|--------------------------------|--------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Re | Lampropeltis triangulum | Milk Snake | | | | 3 | 61 | | | | | | | | | 1 | 4 | | | | | | 4 | | X | | | |
| 15 | Re | Liochlorophis vernalis | Smooth Green Snake | | X | X | X | X | | X | X | | X | X | | | X | X | | X | X | X | X | X | X | X | | | |
| 7 | Re | Pituophis catenifer | Gopher Snake | | 3 | | 18 | 28 | | | | | | | | | | 2 | | | 2 | | | X | | 1 | | | |
| 1 | Re | Sistrurus catenatus | Eastern Massasauga | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| 1 | Re | Tropidoclonion lineatum | Lined Snake | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| 6 | Am | Acris crepitans | Northern Cricket Frog | | | | | 1 | | | | | | X | | | X | | | | X | | | X | | 1 | | | |
| 2 | Am | Ambystoma maculatum | Spotted Salamander | | | | | | | | | X | | | | | 9 | | | | | | | | | | | | |
| 4 | Am | Hemidactylium scutatum | Four-toed Salamander | | | | | | | | | | | | | | 73 | | | 14 | | | | | 29 | X | | | |
| 14 | Am | Necturus maculosus | Common Mudpuppy | X | X | X | X | X | | | X | | X | X | | | 1 | X | | | X | | X | X | X | X | | | |
| 13 | Am | Plethodon cinereus | Eastern Red-backed | X | | | | | X | X | | X | | | X | X | 27 | | X | 31 | | X | | | X | | X | X | |
| 2 | Am | Rana palustris | Pickerel Frog | | | | | 57 | | | | | | | | | | | | | | | | 6 | | | | | |
| 14 | Fi | Acipenser fulvescens | Lake Sturgeon | 14 | 1 | X | 2 | 45 | 16 | | | | X | | | 43 | 51 | 3 | | | | | 5 | | X | 15 | 2 | | |
| 4 | Fi | Alosa chrysochloris | Skipjack Herring | | | | X | 18 | | | | | | | | | | X | | | | | | | | X | | | |
| 3 | Fi | Ammocrypta asprella | Crystal Darter | | | | | 53 | | | | | | | | | | | | | | | | X | | X | | | |
| 3 | Fi | Ammocrypta clara | Western Sand Darter | | | | X | 250 | | | | | | | | | | | | | | | | | | | 18 | | |
| 3 | Fi | Anguilla Rostrata | American Eel | | | | X | 35 | | | | | | | | | | | | | | | | | | | 9 | | |
| 2 | Fi | Aphredoderus sayanus | Pirate Perch | | | | | 43 | | | | | | | | | | | | | | | | | | | X | | |
| 5 | Fi | Campostoma oligolepis | Largescale Stoneroller | | | | | | | | | | | | | | 29 | 9 | | | 3 | | | 41 | | X | | | |
| 3 | Fi | Clinostomus elongatus | Redside Dace | | | | | 10 | | | | | | | | | | | | | 2 | | | 7 | | | | | |
| 1 | Fi | Coregonus hoyi | Bloater | | | | | | | | | | | | | | | | | 1190 | | | | | | | | | |
| 1 | Fi | Coregonus kiyi | Kiyi | | | | | | | | | | | | | | | | | 357 | | | | | | | | | |
| 1 | Fi | Coregonus nipigon | Nipigon cisco | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 2 | Fi | Coregonus zenithicus | Shortjaw Cisco | | | | | | 21 | | | | | | | | | | | 3 | | | | | | | | | |
| 2 | Fi | Cottus ricei | Spoonhead sculpin | | | | | | 2 | | | | | | | | | | | 2 | | | | | | | | | |
| 4 | Fi | Couesius plumbeus | Lake Chub | | | | | | 27 | | | | | | | | | | | 14 | | | | | | | 3 | X | |
| 3 | Fi | Cycleptus elongatus | Blue Sucker | | | | 10 | 136 | | | | | | | | | | | | | | | | | | | 28 | | |
| 2 | Fi | Cyprinella lutrensis | Red Shiner | | | | | | | | 2 | | | 24 | | | | | | | | | | | | | | | |
| 3 | Fi | Erimystax x-punctata | Gravel Chub | | | | | 4 | | | | | | | | | | | | | X | | | 25 | | | | | |
| 3 | Fi | Etheostoma asprigene | Mud Darter | | | | X | 375 | | | | | | | | | | | | | | | | | | | 2 | | |
| 2 | Fi | Etheostoma chlorosoma | Bluntnose Darter | | | | | 2 | | | | | | | | | | | | | | | | | | | X | | |
| 9 | Fi | Etheostoma microperca | Least Darter | | | | 24 | | | 6 | | | 55 | | | | 9 | 11 | | | 14 | 116 | | X | 30 | | | | |
| 2 | Fi | Fundulus sciadicus | Plains Topminnow | | | | | | | | X | | | 32 | | | | | | | | | | | | | | | |
| 2 | Fi | Hybognathus nuchalis | Mississippi Silvery Minnow | | | | | 65 | | | | | | | | | | | | | | | | | | X | | | |
| 8 | Fi | Ichthyomyzon fossor | Northern Brook Lamprey | 8 | | | | | 9 | | | 14 | | | | 43 | 18 | | 6 | X | | | | | X | | | | |

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Agassiz Lowlands | Anoka Sand Plain | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coreau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coreau | Laurentian Uplands | Littlerfork-Vermillion Uplands | Mille Lacs Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands |
|------------------|------|------------------------------|-------------------------------|------------------|------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|--------------------------------|--------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Fi | Ichthyomyzon gagei | Southern Brook Lamprey | | | | | | | | | | | | | | 94 | | | | | | | | | 4 | | |
| 3 | Fi | Ictiobus niger | Black Buffalo | | | | 6 | 13 | | | | | | | | | | | | | | | | | | 2 | | |
| 7 | Fi | Lampetra appendix | American Brook Lamprey | | | | 10 | 91 | | | | | | | | | X | X | | | 9 | | | 39 | | 13 | | |
| 2 | Fi | Lepomis gulosus | Warmouth | | | | | 88 | | | | | | | | | | | | | | | | | | X | | |
| 6 | Fi | Lepomis megalotis | Longear Sunfish | | | | | | 17 | X | | | | | | | 4 | | | | | 26 | | 7 | X | | | |
| 3 | Fi | Lythrurus umbratilis | Redfin Shiner | | | | | X | | | | | | | | | | | | | 3 | | 2 | | | | | |
| 5 | Fi | Macrhybopsis aestivalis | speckled chub | | | | 5 | 73 | | | | | | | | | | | | | 1 | | X | | X | | | |
| 1 | Fi | Morone mississippiensis | Yellow Bass | | | | | 35 | | | | | | | | | | | | | | | | | | | | |
| 3 | Fi | Moxostoma carinatum | River Redhorse | | | | X | 468 | | | | | | | | | | | | | | | | | | 26 | | |
| 3 | Fi | Moxostoma duquesnei | Black Redhorse | | | | | 7 | | | | | | | | | | | | | 3 | | 22 | | | | | |
| 11 | Fi | Moxostoma valenciennesi | Greater Redhorse | X | 28 | | 2 | | | 3 | | 10 | | | X | 94 | | | | | | 32 | | 1 | 1 | 1 | | |
| 1 | Fi | Myoxocephalus thompsoni | Deepwater Sculpin | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| 2 | Fi | Notropis amnis | Pallid Shiner | | | | | 19 | | | | | | | | | | | | | | | | | | X | | |
| 9 | Fi | Notropis anogenus | Pugnose Shiner | | X | | 12 | | | 9 | | 30 | | | | | 4 | 19 | | | | 26 | | 2 | X | | | |
| 3 | Fi | Notropis nubilus | Ozark Minnow | | | | | X | | | | | | | | | | | | | 39 | | 18 | | | | | |
| 2 | Fi | Notropis topeka | Topeka Shiner | | | | | | | | 9 | | | 294 | | | | | | | | | | | | | | |
| 1 | Fi | Noturus exilis | Slender Madtom | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| 2 | Fi | Opsopoeodus emiliae | Pugnose Minnow | | | | | 825 | | | | | | | | | | | | | | | | | | 5 | | |
| 2 | Fi | Percina evides | Gilt Darter | | | | | | | | | | | | | | 143 | | | | | | | | | 11 | | |
| 4 | Fi | Phenacobius mirabilis | Suckermouth Minnow | | | | X | 7 | | | | | | | | | | | | | 12 | | 24 | | | | | |
| 1 | Fi | Platygobio gracilis | flathead chub | | | | | | | | | | | | | | | | | | | | X | | | | | |
| 3 | Fi | Polyodon spathula | Paddlefish | | | | 4 | 91 | | | | | | | | | | | | | | | | | | 11 | | |
| 1 | Fi | Prosopium coulteri | pygmy whitefish | | | | | | | | | | | | | | | | | X | | | | | | | | |
| 4 | Fi | Scaphirhynchus platyrhynchus | Shovelnose Sturgeon | | | | 28 | 90 | | | | | | | | | | | | | X | | | | | 6 | | |
| 2 | Sp | Habronattus texanus | A Jumping Spider | | | | X | | | | | | X | | | | | | | | | | | | | | | |
| 6 | Sp | Marpissa grata | A Jumping Spider | | | X | | | | | | | | | | | X | 1 | | | | | | X | 1 | X | | |
| 4 | Sp | Metaphidippus arizonensis | A Jumping Spider | | 1 | | | 3 | | | | | | | | | | | | | | | 1 | | | 1 | | |
| 5 | Sp | Paradamoetas fontana | A Jumping Spider | | X | | | | | | | X | | | | | X | 1 | | | | | | | | X | | |
| 1 | Sp | Phidippus apacheanus | A Jumping Spider | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 4 | Sp | Phidippus pius | A Jumping Spider | | | | X | | | | X | | | X | | | | X | | | | | | | | | | |
| 1 | Sp | Sassacus papenhoei | A Jumping Spider | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 1 | Sp | Tutelina formicaria | A Jumping Spider | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | In | Aflexia rubranura | Red Tailed Prairie Leafhopper | | | X | 1 | X | | | 1 | | X | | | | 4 | | | | X | 3 | X | | 1 | | | |

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Agassiz Lowlands | Anoka Sand Plain | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coteau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coteau | Laurentian Uplands | Littlefork-Vermillion Uplands | Mille Lacs Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands |
|------------------|------|------------------------------------|----------------------------------|------------------|------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|-------------------------------|--------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | In | Agapetus tomus | A Caddisfly | | 1 | | | | | | | | | | | | 5 | | | | | | | | | | | |
| 1 | In | Asynarchus rossi | A Caddisfly | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| 9 | In | Atrytone arogos | Arogos Skipper | | | | | X | | | 4 | | X | 3 | | | | 7 | | | X | | X | X | X | | | |
| 1 | In | Ceraclea brevis | A Caddisfly | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 3 | In | Ceraclea vertreesi | Vertrees's Ceracleon Caddisfly | | | | | | | 1 | | | | | | | X | | | | | X | | | | | | |
| 1 | In | Chilostigma itascae | Headwater Chilostigman Caddisfly | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 4 | In | Cicindela denikei | A Tiger Beetle | 1 | | | | | 60 | | | | | | 2 | 4 | | | | | | | | | | | | |
| 1 | In | Cicindela fulgida fulgida | A Tiger Beetle | | | | | | | | | | | | | | | X | | | | | | | | | | |
| 1 | In | Cicindela fulgida westbournei | A Tiger Beetle | | | | | | | | | | | | | | | | | | | | X | | | | | |
| 1 | In | Cicindela hirticollis rhodensis | A Tiger Beetle | | | | | | | | | | | | | | | | | X | | | | | | | | |
| 2 | In | Cicindela lepida | Little White Tiger Beetle | | | | | | | | | | 1 | | | | | X | | | | | | | | | | |
| 1 | In | Cicindela limbata nympha | A Tiger Beetle | | | | | | | | | | X | | | | | | | | | | | | | | | |
| 1 | In | Cicindela macra macra | A Tiger Beetle | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 5 | In | Cicindela patruela patruela | A Tiger Beetle | | 2 | | | 3 | | | | | | | | | 2 | | | | | | | | | X | | |
| 1 | In | Cicindela splendida cyanocephalata | A Tiger Beetle | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 13 | In | Epidemia epixanthe michiganensis | Bog Copper | 4 | X | | | | | X | | | | | X | X | X | | X | X | | X | | | X | X | X | X |
| 8 | In | Erebia disa mancinus | Disa Alpine | X | | | | | X | | | | | | X | X | | | X | X | | | | | | | X | X |
| 5 | In | Erynnis persius | Persius Duskywing | | X | | | 1 | | | | | | | | | X | | | | | X | | | X | | | |
| 7 | In | Euphyes bimacula illinois | Two-spotted Skipper | | X | | | X | | | | | | | | | X | | | | X | X | | X | X | | | |
| 1 | In | Gomphus crassus | Handsome Clubtail | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 2 | In | Gomphus ventricosus | Skillet Clubtail | | | | | X | | | | | | | | | X | | | | | | | | | | | |
| 2 | In | Gomphus viridifrons | Green-faced Clubtail | | | | | | | | | | | | | | X | | | | | | | | | X | | |
| 2 | In | Hesperia comma assiniboia | Assiniboia Skipper | | | 4 | | | | | | | | | | | | | | | | | X | | | | | |
| 5 | In | Hesperia dacotae | Dakota Skipper | | | 6 | | | | | 1 | | | 3 | | | | 30 | | | | | 2 | | | | | |
| 7 | In | Hesperia leonardus leonardus | Leonard's Skipper | 1 | 1 | | | 2 | | X | | | | | | | X | | | | | 3 | | | X | | | |
| 4 | In | Hesperia leonardus pawnee | Pawnee Skipper | | | | | | | | 2 | | | 3 | | | | 19 | | | | X | | | | | | |
| 6 | In | Hesperia ottoe | Otoe Skipper | | | | | 3 | | | X | | | 3 | | | | X | | | X | | | X | | | | |
| 2 | In | Hesperia uncas | Uncas Skipper | | X | | | | | | | | | X | | | | | | | | | | | | | | |
| 1 | In | Hydroptila metoeca | A Caddisfly | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 1 | In | Hydroptila novicola | A Caddisfly | | | | | | | | | | | | | | X | | | | | | | | | | | |

Appendix E Occurrences of Species in Greatest Conservation Need by Ecological Subsection.

Numbers in columns indicate number of occurrences since 1990 based on the MN DNR Natural Heritage Database, MN DNR Fisheries Database, MCBS Surveys, or the Statewide Mussel Surveys. An "X" indicates that the species either was found in that subsection prior to 1990 or is expected to occur based on other information.

| # of subsections | Taxa | Scientific Name | Common Name | Agassiz Lowlands | Anoka Sand Plains | Aspen Parklands | Big Woods | The Blufflands | Border Lakes | Chippewa Plains | Coreau Moraines | Glacial Lake Superior Plain | Hardwood Hills | Inner Coreau | Laurentian Uplands | Littlefork-Vermillion Uplands | Mille Lacs Uplands | Minnesota River Prairie | Nashauk Uplands | North Shore Highlands | Oak Savanna | Pine Moraines & Outwash Plains | Red River Prairie | Rochester Plateau | St. Louis Moraines | St. Paul-Baldwin Plains | Tamarack Lowlands | Toimi Uplands |
|------------------|------|--|----------------------------------|------------------|-------------------|-----------------|-----------|----------------|--------------|-----------------|-----------------|-----------------------------|----------------|--------------|--------------------|-------------------------------|--------------------|-------------------------|-----------------|-----------------------|-------------|--------------------------------|-------------------|-------------------|--------------------|-------------------------|-------------------|---------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Mo | Ligumia recta | Black Sandshell | X | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Mo | Megaloniaias nervosa | Washboard | | | | 1 | 22 | | | | | | | | | | | | | | | | | | 3 | | |
| 1 | Mo | Novasuccinea n.sp. minnesota a | Minnesota Pleistocene Ambersnail | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 1 | Mo | Novasuccinea n.sp. minnesota b | Iowa Pleistocene Ambersnail | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 5 | Mo | Obovaria olivaria | Hickorynut | | | | 5 | 74 | | | | | | | | | 26 | 4 | | | | | | | | 31 | | |
| 4 | Mo | Plethobasus cyphus | Sheepnose | | | | 1 | 3 | | | | | | | | | | | | | 1 | | | | | 9 | | |
| 6 | Mo | Pleurobema coccineum | Round Pigtoe | | | | 3 | 44 | | | | | | | | | 53 | | | | 8 | | X | | 50 | | | |
| 4 | Mo | Quadrula fragosa | Winged Mapleleaf | | | | 1 | 1 | | | | | | | | | 2 | | | | | | | | 4 | | | |
| 10 | Mo | Quadrula metanevra | Monkeyface | | X | | 5 | 33 | | 1 | | | X | | | | 5 | 3 | | | 1 | | X | | 42 | | | |
| 5 | Mo | Quadrula nodulata | Wartyback | | 20 | | 8 | 18 | | | | | | | | | 4 | | | | | | | | 102 | | | |
| 4 | Mo | Simpsoniaias ambigua | Salamander Mussel | | | | | X | | | | | | | | | 1 | 3 | | | | | | | 3 | | | |
| 5 | Mo | Tritogonia verrucosa | Pistolgrip | | | | 6 | 12 | | | | | | | | | 5 | 3 | | | | | | | 27 | | | |
| 5 | Mo | Truncilla donaciformis | Fawnsfoot | | 13 | | 1 | 21 | | | | | | | | | | 1 | | | | | | | 8 | | | |
| 8 | Mo | Venustaconcha ellipsiformis | Ellipse | | | | 1 | 18 | | X | | | X | | | | | 4 | | | 10 | | 27 | | 1 | | | |
| 1 | Mo | Vertigo hubrichti | Hubricht's Vertigo | | | | | 5 | | | | | | | | | | | | | | | | | | | | |
| 1 | Mo | Vertigo hubrichti hubrichti | Midwest Pleistocene Vertigo | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 1 | Mo | Vertigo hubrichti variabilis n. subsp. | Variable Pleistocene Vertigo | | | | | X | | | | | | | | | | | | | | | | | | | | |
| 1 | Mo | Vertigo meramecensis | Bluff Vertigo | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| | | Key | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ma | Mammals | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bi | Birds | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Re | Reptiles | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Am | Amphibians | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Fi | Fish | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sp | Spiders | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | In | Insects | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mo | Mollusks | | | | | | | | | | | | | | | | | | | | | | | | | | |