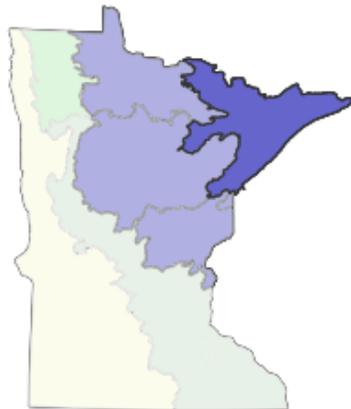


Northern Superior Uplands

Section Forest Resources Management Plan



Preliminary Issues and Assessment Chapter 8: Wildlife Species and Trends



Copyright 2015, State of Minnesota, Department of Natural Resources
Prepared February 2015

Data and maps borrowed from the Minnesota Forest Resources Council Northeast Landscape Plan are credit as follows:

Minnesota Forest Resource Council. 2014. Northeast Landscape Conditions & Trends Report. Landscape Program Document #LT0114. Minnesota Forest Resource Council, St. Paul, Minnesota. Available online at the [Minnesota Forest Resource Council](http://www.frc.state.mn.us) web site www.frc.state.mn.us

Notes relating to this document:

This *Preliminary Issues and Assessment* document and color maps may be viewed as PDF files on the *Northern Northern Superior Uplands Section Forest Resources Management Plan* website at:

[Northern Superior Uplands SFRMP](#)

Information about the Section Resource Management Plan (SFRMP) process can be found at:

[Information about SFRMP](#)

Alternative Formats available on request.

Equal opportunity to participate in and benefit from programs of the Minnesota Department of Natural Resources is available to all individuals regardless of race, color, creed, religion, national origin, sex, marital status, public assistance status, age, sexual orientation, disability or activity on behalf of a local human rights commission. Discrimination inquiries should be sent to Minnesota DNR, 500 Lafayette Road, St. Paul, MN 55155-4049; or the Equal Opportunity Office, Department of the Interior, Washington, D.C. 20240.

This document is available in alternative formats to individuals with disabilities by calling 651-296-6157 (Metro Area) or 1-888-MINNDNR (MN Toll Free) or Telecommunication Device for the Deaf/TTY: 651- 296-5484 (Metro Area) or 1-800-657-3929 (Toll Free TTY).

Printed on FSC certified, recycled paper containing a minimum of 10% post-consumer waste.

Contents

Wildlife Species and Trends For the Northern Superior Uplands Section 4

 Introduction 4

 Table 8.1. Wildlife survey data locations and availability 5

 Literature Cited 8

Terrestrial Vertebrate Species List, Status and Trends 9

 Table 8.2.a. Bird species list 10

 Table 8.2.b. Mammal species list 16

 Table 8.2.c. Amphibian and reptile species list 19

Habitat Relationships by Minnesota GAP Analysis Project (MN-GAP) land cover type 21

 Table 8.3.a. Mammal habitat relationships 21

 Table 8.3.b. Bird habitat relationships 24

 Table 8.3.c. Amphibian and Reptile habitat relationships 34

Wildlife Species and Trends For the Northern Superior Uplands Section

Border Lakes, Laurentian Uplands, Nashwauk Uplands, North Shore Highlands, and Toimi Uplands subsections

Introduction

This chapter provides information on the occurrence, legal status, habitat associations, and population trends of wildlife species in these five subsections in the Northern Superior Uplands (NSU). Species presence information is summarized from data collected by the Minnesota Gap Analysis Project (MN-GAP), a project organized to provide a state assessment of the conservation status of native vertebrate species and natural land cover-types.

Minnesota completed its first [State Wildlife Action Plan](http://www.dnr.state.mn.us/cwcs/index.html) in 2006 (known as *Tomorrow's Habitat for the Wild and Rare*; <http://www.dnr.state.mn.us/cwcs/index.html>). It is a strategic plan that sets objectives and conservation actions for species in greatest conservation need (SGCN). SGCN include all wildlife species listed as endangered, threatened, or special concern as well as species that are rare, declining, or vulnerable to decline. The State Wildlife Action Plan includes goals for stabilizing and increasing populations of SGCNs, improving knowledge about these species, and enhancing people's appreciation and enjoyment of them. The plan also identifies habitats that are most important to the greatest number of SGCN in a subsection, known as a Key Habitats.

Within the five subsections in the NSU, Border Lakes has 69 SGCN, Laurentian Uplands has 58 SGCNs, Nashwauk Uplands has 60 SGCN, North Shore Highlands has 84 SGCN, and Toimi Uplands has 52 SGCN (see Appendix G in the *State Wildlife Action Plan* for the list of SGCN in each subsection). The Key Habitats of Forest-Upland Coniferous, Forest-Lowland Coniferous, and River-Headwater to Large were identified for all five of the subsections in the NSU. The Key Habitat of Shrub/Woodland-Upland (jack pine woodland) was identified for all the subsections except the North Shore Highlands. The Key Habitat of Forest-Upland Deciduous (mixed hardwood-pine) was identified for the Nashwauk Uplands, Shoreline-dunes-cliffs/talus was identified for the North Shore Highlands, and Lake-Deep was identified for the Border Lakes and North Shore Highlands. See the subsection profiles in Chapter 5 and the habitat descriptions in Chapter 6 of the *State Wildlife Action Plan* for more information on SGCN and Key Habitats in each subsection.

The *State Wildlife Action Plan* identified habitat loss and habitat degradation as the most significant challenges facing SGCN in the five subsections in the NSU. Priority conservation actions identified in the plan for these subsections include maintaining, enhancing, and protecting key habitats, conducting surveys and research on SGCN populations and habitat, and monitoring long-term trends in SGCN populations and habitat. Minnesota is currently revising the *State Wildlife Action Plan*, which will be available in October 2015. The revised plan will include an updated list of SGCN and will delineate priority conservation areas for SGCN.

Long-term monitoring of wildlife populations is necessary for assessing population trends and the response of species to land management activities. Information used to assess population status and health comes from a variety of sources, including direct and indirect surveys, habitat quality surveys, and

harvest surveys (see table below for most recent data sources). DNR's Division of Fish and Wildlife conducts annual population and harvest assessments and research, and publishes [annual population status, harvest, and research reports online](#) at <http://www.dnr.state.mn.us/publications/wildlife/index.html>. The DNR Department of Ecological and Water Resources conducts annual surveys for a variety of species including northern goshawks, common loons, colonial waterbirds, and frogs and toads. In addition, the [DNR's Minnesota Biological Survey](#) (<http://www.dnr.state.mn.us/mbs/index.html>) and the [Minnesota Breeding Bird Atlas](#) (<http://www.mnbba.org/>) collect baseline data on wildlife that can be used to assess trends over time, while the US Fish and Wildlife Service conducts ongoing [waterfowl, dove, sandhill crane, and woodcock surveys](#) (<http://www.fws.gov/migratorybirds/NewReportsPublications/>).

Table 8.1. Wildlife survey data locations and availability

| Survey | Data Availability |
|--|---|
| Breeding Bird Survey | https://www.pwrc.usgs.gov/BBS |
| Forest Bird Monitoring Program | http://www.nrri.umn.edu/mnbirds/default.htm |
| Western Great Lakes Owl Monitoring | http://www.hawkridge.org/research/springowl.html |
| Northern Goshawk Monitoring | MN DNR – Nongame Wildlife Program |
| Minnesota Loon Monitoring Program | http://www.dnr.state.mn.us/eco/nongame/projects/mlmp_state.html |
| Colonial Waterbird Survey | MN DNR – Nongame Wildlife Program |
| Minnesota Frog and Toad Survey | http://www.dnr.state.mn.us/volunteering/frogtoad_survey/index.html |

| Survey | Data Availability |
|--|--|
| Minnesota Dragonfly Survey | http://www.mndragonfly.org/ |
| Grouse Surveys Grouse surveys PDF | http://www.dnr.state.mn.us/hunting/grouse/reports.html http://files.dnr.state.mn.us/recreation/hunting/grouse/grouse_survey_report14.pdf |
| Sandhill Crane Survey | http://www.fws.gov/migratorybirds/NewReportsPublications/PopulationStatus/SandhillCrane/2014%20Status%20and%20Harvest%20Sandhill%20Cranes.pdf |
| Mourning Dove Survey | http://www.fws.gov/migratorybirds/NewReportsPublications/PopulationStatus/MourningDove/Mourning%20Dove%20Population%20Status%202014.pdf |
| Wetland Wildlife Population Survey | http://files.dnr.state.mn.us/publications/wildlife/population2013/4-wetland-wildlife.pdf |
| Woodcock Survey | http://www.fws.gov/migratorybirds/NewReportsPublications/PopulationStatus/Woodcock/American%20Woodcock%20Population%20Status2014.pdf |
| Small Game, Goose, Turkey, Moose Harvest Report | http://files.dnr.state.mn.us/publications/wildlife/population2013/5-hunting-harvest.pdf |
| Furbearer Scent Station | http://files.dnr.state.mn.us/recreation/hunting/trapping/scent_station |

| Survey | Data Availability |
|--|---|
| Surveys | .pdf |
| Furbearer Track Surveys | http://files.dnr.state.mn.us/recreation/hunting/trapping/wintertrack.pdf |
| Furbearer Harvest Report | http://files.dnr.state.mn.us/recreation/hunting/trapping/harvest_13-14.pdf |
| Bear Survey | http://files.dnr.state.mn.us/publications/wildlife/population2013/5-hunting-harvest.pdf |
| Bear Harvest Report | http://files.dnr.state.mn.us/recreation/hunting/bear/2013_bearharvest.pdf |
| Deer Survey | http://files.dnr.state.mn.us/publications/wildlife/population2013/1-farmland-wildlife.pdf |
| Deer Harvest Report | http://files.dnr.state.mn.us/wildlife/deer/reports/harvest/deerharvest_2013.pdf |
| Grouse/Moose Survey | http://files.dnr.state.mn.us/publications/wildlife/population2013/3-forest-wildlife.pdf |
| Wolf Survey | http://files.dnr.state.mn.us/fish_wildlife/wildlife/wolves/2013/wolfsurvey_2013.pdf |

Wildlife species within the planning area face many threats including forest loss, forest fragmentation, changes in forest ages, forest types, and forest patch sizes, invasive species, and climate change (MFRC 2014). Forest management activities can have a positive or negative influence on these threats.

Over the past 150 years as timber harvest replaced fire as the dominant disturbance factor on the landscape, the forests of the NSU have become simplified in terms of composition and structure. There has been a loss of species diversity and structural complexity at the stand-level (Franklin et al. 2007), as well as significant changes in forest composition, forest ages, and patch sizes on a landscape scale (Host and White 2003, MFRC 2014, White and Host 2003). Within-stand species diversity has been altered, most notably a reduced abundance of long-lived conifers due to lack of seed trees (MFRC 2014). Within-stand horizontal and vertical structure has been reduced so that stands tend to have fewer snags, fewer large live trees, less diversity in tree sizes, fewer large downed trees, and more uniform tree distribution (Franklin et al. 2007). On a landscape scale, forest composition and age have been altered so that today's forests are dominated by younger-aged stands of early successional species (MFRC 2014, White and Host 2003). Forest patches are smaller and have become more uniform in shape, there has been an increase in the amount of edge and a decrease in the amount of interior forest area, and large patches tend to be underrepresented on the landscape (Host and White 2003, MFRC 2014, White and Host 2003).

These changes have decreased habitat quality for many wildlife species, particularly species that require older forest and larger patches of forest. However, these changes have led to increased habitat quality for some wildlife species, particularly species that prefer edge and early successional habitats. Forest management can be an important tool for increasing habitat quality for wildlife and maintaining and enhancing components of the forest that have been compromised over the past 150 years.

Literature Cited

Franklin, J. F., R. J. Mitchell, and B. J. Palik. 2007. Natural disturbance and stand development principles for ecological forestry. USDA, Northern Research Station. General Technical Report NRS-19.

Host, G. E., and M. A. White. 2003. Changes in forest spatial patterns from the 1930s to the present in north central and northeastern Minnesota: an analysis of historic and recent air photos. Minnesota Forest Resources Council Report LT-1203c.

MFRC. 2014. Northeast landscape forest resources plan. Prepared by the Minnesota Forest Resources Council Northeast Landscape Planning Committee. Document in draft pending Council approval of the Plan.

White, M. A., and G. E. Host. 2003. Changes in disturbance frequency, age and patch structure from pre-Euro-American to settlement to present in north-central and northeastern Minnesota. Minnesota Forest Resources Council Report LT-1203a.

Terrestrial Vertebrate Species List, Status and Trends

Notes regarding the following six tables:

| |
|--|
| <p>Species Criteria: Species criteria for MN-GAP includes the following: 1) Be known to breed in Minnesota (evidence of breeding 5 of the past 10 years) and be a regularly occurring non-accidental, 2) Be listed as state endangered, threatened, or special concern or as federally endangered or threatened, 3) Be listed as a furbearer, big game, small game, or migratory bird in Minnesota, and, 4) Be an exotic species in Minnesota that impacts native species or is of management interest.</p> |
| <p>Species Group: Animals are assigned to one of four major species groups - Amphibians, Birds, Mammals, and, Reptiles.</p> |
| <p>^a Species Common and Scientific Names: Notes standard MN-GAP protocol based on NatureServe and it's related searchable plant, animal and ecological database called NatureServe Explorer located at www.natureserveexplorer.org</p> |
| <p>^bMinnesota Legal Status: E = State Endangered; T = State Threatened; SC = State Species of Special Concern; BG = Big Game; SG = Small Game; F = Furbearer; MW = Migratory Waterfowl; UB = Unprotected Bird; PB = Protected Bird; PWA = Protected Wild Animal; UWA = Unprotected Wild Animal. Note: A species may have more than one Minnesota Legal Status notation.</p> |
| <p>^cFederal Legal Status: T = Federal Threatened; E = Federal Endangered; P = Federal Protection by the Migratory Bird Treaty Act or Bald Eagle Protection Act or CITES.</p> |
| <p>^dSpecies Occurrence: For all ECS Subsections, the following codes note a species specific range modifier: B = Breeding; PR = Permanent Resident; a = absent; m = migrant; m/sv = migrant/summer visitor; wv = winter visitor. Also, an (L) may be listed with these range codes if the species has a limited distribution in the Subsection due to specific habitat needs. Note: These range notations by ECS subsections represent the current occurrence of these wildlife species based on ECS subsections. Animal distributions are dynamic and revisions may be made as new information becomes available.</p> |
| <p>DISCLAIMER: Information and data listed in these tables has been produced by ongoing wildlife species assessment efforts conducted under the MNDNR Division of Wildlife's Minnesota Wildlife Resource Assessment Project (MN-WRAP) and Minnesota Gap Analysis Project (MN-GAP). These efforts and related tables noted here are initial products that are currently in various stages of literature and expert review. Review and comments on these tables and contents is encouraged. Please contact the MNDNR Division of Wildlife at 218-833-8620 for comments or suggestions</p> |

Table 8.2.a. Bird species list

Northern Superior Uplands (NSU) Subsections

| Birds | | | | | | | | | | |
|---------------------------|--------------------------|------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABNBA01030 | Common Loon | <i>Gavia immer</i> | R | PB | P | B | B | B | B | B |
| ABNCA02010 | Pied-billed Grebe | <i>Podilymbus podiceps</i> | R | PB | P | B | B | B | B | B |
| ABNCA03020 | Red-necked Grebe | <i>Podiceps grisegena</i> | R | PB | P | B | B | B | B | B |
| ABNFD01020 | Double-crested Cormorant | <i>Phalacrocorax auritus</i> | R | UB | P | B | B | B | B | B |
| ABNGA01020 | American Bittern | <i>Botaurus lentiginosus</i> | R | PB | P | B | B | B | B | B |
| ABNGA04010 | Great Blue Heron | <i>Ardea herodias</i> | R | PB | P | B | B | B | B | B |
| ABNGA08010 | Green Heron | <i>Butorides virescens</i> | R | PB | P | B | A | A | A | A |
| ABNJB0230 | Trumpeter Swan | <i>Cygnus buccinator</i> | R | SC | P | M | M | M | B | B |
| ABNJB05030 | Canada Goose | <i>Branta canadensis</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB09010 | Wood Duck | <i>Aix sponsa</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB10040 | American Black Duck | <i>Anas rubripes</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB10060 | Mallard | <i>Anas platyrhynchos</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB10130 | Blue-winged Teal | <i>Anas discors</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB10010 | Green-winged Teal | <i>Anas crecca</i> | R | PB, MW | P | M | M | M | B | M |
| ABNJB10180 | American Wigeon | <i>Anas americana</i> | R | PB, MW | P | M | B | M | M | B |
| ABNJB11040 | Ring-necked Duck | <i>Aythya collaris</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB18010 | Common Goldeneye | <i>Bucephala clangula</i> | R | PB, MW | P | WV | B | B | B | B |
| ABNJB20010 | Hooded Merganser | <i>Lophodytes cucullatus</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB21010 | Common Merganser | <i>Mergus merganser</i> | R | PB, MW | P | B | B | B | B | B |
| ABNJB21020 | Red-breasted Merganser | <i>Mergus serrator</i> | R | PB, MW | P | B | M | M | M | M |
| ABNKA02010 | Turkey Vulture | <i>Cathartes aura</i> | R | PB | P | B | B | B | B | B |

| Birds | | | | | | | | | | |
|---------------------------|--------------------------|----------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABNKC01010 | Osprey | <i>Pandion haliaetus</i> | R | PB | P | B | B | B | B | B |
| ABNKC10010 | Bald Eagle | <i>Haliaeetus leucocephalus</i> | R | PB | P | B | B | B | B | B |
| ABNKC11010 | Northern Harrier | <i>Circus cyaneus</i> | R | PB | P | B | B | B | B | B |
| ABNKC12020 | Sharp-shinned Hawk | <i>Accipiter striatus</i> | R | PB | P | B | B | B | B | B |
| ABNKC12040 | Cooper's Hawk | <i>Accipiter cooperii</i> | R | PB | P | B | M | B | M | M |
| ABNKC12060 | Northern Goshawk | <i>Accipiter gentilis</i> | PR | SC | P | B | B | B | B | B |
| ABNKC19050 | Broad-winged Hawk | <i>Buteo platypterus</i> | R | PB | P | B | B | B | B | B |
| ABNKC19110 | Red-tailed Hawk | <i>Buteo jamaicensis</i> | R | PB | P | B | B | B | B | B |
| ABNKD06020 | American Kestrel | <i>Falco sparverius</i> | R | PB | P | B | B | B | B | B |
| ABNKD06030 | Merlin | <i>Falco columbarius</i> | R | PB | P | B | B | B | B | B |
| ABNKD06070 | Peregrine Falcon | <i>Falco peregrinus</i> | R | PB, SC | P | B | M | M | M | B |
| ABNLC09010 | Spruce Grouse | <i>Falcipennis canadensis</i> | PR | PB, SG | | A | A | P | P | A |
| ABNLC11010 | Ruffed Grouse | <i>Bonasa umbellus</i> | PR | PB, SG | | P | P | P | B | B |
| ABNME05030 | Virginia Rail | <i>Rallus limicola</i> | R | PB, SG | P | B | B | B | A | B |
| ABNME08020 | Sora | <i>Porzana carolina</i> | R | PB, SG | P | B | B | B | B | B |
| ABNMK01010 | Sandhill Crane | <i>Grus canadensis</i> | R | PB | P | M / B (L) | B | B | M | M |
| ABNNB03070 | Piping Plover | <i>Charadrius melodus</i> | R | PB, E | P, E&T | M / B (L) | M | M | A | M |
| ABNNB03090 | Killdeer | <i>Charadrius vociferus</i> | R | PB | P | B | B | B | B | B |
| ABNNF04020 | Spotted Sandpiper | <i>Actitis macularia</i> | R | PB | P | B | B | B | B | B |
| ABNNF18030 | Wilson's Snipe | <i>Gallinago delicata</i> | R | PB, SG | P | B | B | B | B | B |
| ABNNF19020 | American Woodcock | <i>Scolopax minor</i> | R | PB, SG | P | B | B | B | B | B |
| ABNNM03100 | Ring-billed Gull | <i>Larus delawarensis</i> | R | PB | P | B | M | M | M | M |
| ABNNM03120 | Herring Gull | <i>Larus argentatus</i> | R | PB | P | B | B | B | B | B |
| ABNNM08070 | Common Tern | <i>Sterna hirundo</i> | R | PB, T | P | B | M | M | M | M |
| ABNPB0401a | Rock Dove | <i>Columba livia</i> | PR | PB | | P | P | P | P | P |
| ABNPB04040 | Mourning Dove | <i>Zenaidura macroura</i> | R | PB | P | B | M | M | M | B |
| ABNRB02010 | Black-billed Cuckoo | <i>Coccyzus erythrophthalmus</i> | R | PB | P | B | B | B | B | B |
| ABNSB05010 | Great Horned Owl | <i>Bubo virginianus</i> | PR | UB | P | P | P | P | P | P |
| ABNSB07010 | Northern Hawk Owl | <i>Surnia ulula</i> | PR | PB | P | WV | WV | P | P | P |
| ABNSB12020 | Barred Owl | <i>Strix varia</i> | PR | PB | P | P | P | P | P | P |
| ABNSB12040 | Great Gray Owl | <i>Strix nebulosa</i> | PR | PB | P | WV | P | P | P | P |
| ABNSB13010 | Long-eared Owl | <i>Asio otus</i> | R | PB | P | B | B | B | B | B |
| ABNSB15010 | Boreal Owl | <i>Aegolius funereus</i> | PR | SC | P | WV / P (L) | WV | P | P | WV |

| Birds | | | | | | | | | | |
|---------------------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABNSB15020 | Northern Saw-whet Owl | <i>Aegolius acadicus</i> | R | PB | P | B | B | B | B | B |
| ABNTA02020 | Common Nighthawk | <i>Chordeiles minor</i> | R | PB | P | B | B | B | B | B |
| ABNTA07070 | Whip-poor-will | <i>Caprimulgus vociferus</i> | R | PB | P | B | B | B | B | B |
| ABNUA03010 | Chimney Swift | <i>Chaetura pelagica</i> | R | PB | P | B | B | B | B | B |
| ABNUC45010 | Ruby-throated Hummingbird | <i>Archilochus colubris</i> | R | PB | P | B | B | B | B | B |
| ABNXD01020 | Belted Kingfisher | <i>Ceryle alcyon</i> | R | PB | P | B | B | B | B | B |
| ABNYF04040 | Red-headed Woodpecker | <i>Melanerpes erythrocephalus</i> | R | PB | P | B | B | A | A | B |
| ABNYF05010 | Yellow-bellied Sapsucker | <i>Sphyrapicus varius</i> | R | PB | P | B | B | B | B | B |
| ABNYF07030 | Downy Woodpecker | <i>Picoides pubescens</i> | PR | PB | P | P | P | P | B | B |
| ABNYF07040 | Hairy Woodpecker | <i>Picoides villosus</i> | PR | PB | P | P | P | P | P | P |
| ABNYF07080 | Three-toed Woodpecker | <i>Picoides tridactylus</i> | PR | PB | P | WV | WV | P | P | WV |
| ABNYF07090 | Black-backed Woodpecker | <i>Picoides arcticus</i> | PR | PB | P | P | P | P | P | P |
| ABNYF10020 | Northern Flicker | <i>Colaptes auratus</i> | R | PB | P | B | B | B | B | B |
| ABNYF12020 | Pileated Woodpecker | <i>Dryocopus pileatus</i> | PR | PB | P | P | P | P | P | P |
| ABPAE32010 | Olive-sided Flycatcher | <i>Contopus cooperi</i> | R | PB | P | B | B | B | B | B |
| ABPAE32060 | Eastern Wood-Pewee | <i>Contopus virens</i> | R | PB | P | B | B | B | B | B |
| ABPAE33010 | Yellow-bellied Flycatcher | <i>Empidonax flaviventris</i> | R | PB | P | B | B | B | B | B |
| ABPAE33030 | Alder Flycatcher | <i>Empidonax alnorum</i> | R | PB | P | B | B | B | B | B |
| ABPAE33070 | Least Flycatcher | <i>Empidonax minimus</i> | R | PB | P | B | B | B | B | B |
| ABPAE35020 | Eastern Phoebe | <i>Sayornis phoebe</i> | R | PB | P | B | B | B | B | B |
| ABPAE43070 | Great Crested Flycatcher | <i>Myiarchus crinitus</i> | R | PB | P | B | B | B | B | B |
| ABPAE52060 | Eastern Kingbird | <i>Tyrannus tyrannus</i> | R | PB | P | B | B | B | B | B |
| ABPAU01010 | Purple Martin | <i>Progne subis</i> | R | PB,SC | P | B | B | B | B | B |
| ABPAU03010 | Tree Swallow | <i>Tachycineta bicolor</i> | R | PB | P | B | B | B | B | B |
| ABPAU07010 | Northern Rough-winged Swallow | <i>Stelgidopteryx serripennis</i> | R | PB | P | B | B | B | B | B |
| ABPAU08010 | Bank Swallow | <i>Riparia riparia</i> | R | PB | P | B | B | B | B | B |
| ABPAU09010 | Cliff Swallow | <i>Petrochelidon pyrrhonota</i> | R | PB | P | B | B | B | B | B |

| Birds | | | | | | | | | | |
|---------------------------|--------------------------|--------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABPAU09030 | Barn Swallow | <i>Hirundo rustica</i> | R | PB | P | B | B | B | B | B |
| ABPAV01010 | Gray Jay | <i>Perisoreus canadensis</i> | PR | PB | P | P | P | P | P | P |
| ABPAV02020 | Blue Jay | <i>Cyanocitta cristata</i> | PR | PB | P | P | P | P | P | P |
| ABPAV10010 | American Crow | <i>Corvus brachyrhynchos</i> | PR | PB | P | P | P | P | B | P |
| ABPAV10110 | Common Raven | <i>Corvus corax</i> | PR | PB | P | P | P | P | P | P |
| ABPAW01010 | Black-capped Chickadee | <i>Poecile atricapillus</i> | PR | PB | P | P | P | P | P | P |
| ABPAW01060 | Boreal Chickadee | <i>Poecile hudsonicus</i> | PR | PB | P | P | P | P | P | P |
| ABPAZ01010 | Red-breasted Nuthatch | <i>Sitta canadensis</i> | PR | PB | P | P | P | P | P | P |
| ABPAZ01020 | White-breasted Nuthatch | <i>Sitta carolinensis</i> | PR | PB | P | P | P | P | P | P |
| ABPBA01010 | Brown Creeper | <i>Certhia americana</i> | R | PB | P | B | B | B | B | B |
| ABPBG09010 | House Wren | <i>Troglodytes aedon</i> | R | PB | P | B | B | B | B | B |
| ABPBG09050 | Winter Wren | <i>Troglodytes troglodytes</i> | R | PB | P | B | B | B | B | B |
| ABPBG10010 | Sedge Wren | <i>Cistothorus platensis</i> | R | PB | P | B | B | B | B | B |
| ABPBJ05010 | Golden-crowned Kinglet | <i>Regulus satrapa</i> | R | PB | P | B | B | B | B | B |
| ABPBJ05020 | Ruby-crowned Kinglet | <i>Regulus calendula</i> | R | PB | P | B | B | B | B | B |
| ABPBJ15010 | Eastern Bluebird | <i>Sialia sialis</i> | R | PB | P | B | B | B | B | B |
| ABPBJ18080 | Veery | <i>Catharus fuscescens</i> | R | PB | P | B | B | B | B | B |
| ABPBJ18100 | Swainson's Thrush | <i>Catharus ustulatus</i> | R | PB | P | B | B | B | B | B |
| ABPBJ18110 | Hermit Thrush | <i>Catharus guttatus</i> | R | PB | P | B | B | B | B | B |
| ABPBJ19010 | Wood Thrush | <i>Hylocichla mustelina</i> | R | PB | P | B | B | B | B | B |
| ABPBJ20170 | American Robin | <i>Turdus migratorius</i> | R | PB | P | B | B | B | B | B |
| ABPBK01010 | Gray Catbird | <i>Dumetella carolinensis</i> | R | PB | P | B | B | B | B | B |
| ABPBK06010 | Brown Thrasher | <i>Toxostoma rufum</i> | R | PB | P | B | B | B | B | B |
| ABPBK0607a | European Starling | <i>Sturnus vulgaris</i> | PR | UB | | P | P | P | P | P |
| ABPBN01020 | Cedar Waxwing | <i>Bombycilla cedrorum</i> | R | PB | P | B | B | B | B | B |
| ABPBW01160 | Blue-headed Vireo | <i>Vireo solitarius</i> | R | PB | P | B | B | B | B | B |
| ABPBW01170 | Yellow-throated Vireo | <i>Vireo flavifrons</i> | R | PB | P | A | A | A | A | A |

| Birds | | | | | | | | | | |
|---------------------------|------------------------------|-------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABPBW01210 | Warbling Vireo | <i>Vireo gilvus</i> | R | PB | P | B (L) | A | A | A | A |
| ABPBW01230 | Philadelphia Vireo | <i>Vireo philadelphicus</i> | R | PB | P | B | B | B | B | B |
| ABPBW01240 | Red-eyed Vireo | <i>Vireo olivaceus</i> | R | PB | P | B | B | B | B | B |
| ABPBX01030 | Golden-winged Warbler | <i>Vermivora chrysoptera</i> | R | PB | P | B | B | B | B | B |
| ABPBX01040 | Tennessee Warbler | <i>Vermivora peregrina</i> | R | PB | P | B | B | B | B | B |
| ABPBX01060 | Nashville Warbler | <i>Vermivora ruficapilla</i> | R | PB | P | B | B | B | B | B |
| ABPBX02010 | Northern Parula | <i>Parula americana</i> | R | PB | P | B | B | B | B | B |
| ABPBX03010 | Yellow Warbler | <i>Dendroica petechia</i> | R | PB | P | B | B | B | B | B |
| ABPBX03020 | Chestnut-sided Warbler | <i>Dendroica pensylvanica</i> | R | PB | P | B | B | B | B | B |
| ABPBX03030 | Magnolia Warbler | <i>Dendroica magnolia</i> | R | PB | P | B | B | B | B | B |
| ABPBX03040 | Cape May Warbler | <i>Dendroica tigrina</i> | R | PB | P | B | B | B | B | B |
| ABPBX03050 | Black-throated Blue Warbler | <i>Dendroica caerulescens</i> | R | PB | P | B | M | B | B | M |
| ABPBX03060 | Yellow-rumped Warbler | <i>Dendroica coronata</i> | R | PB | P | B | B | B | B | B |
| ABPBX03100 | Black-throated Green Warbler | <i>Dendroica virens</i> | R | PB | P | B | B | B | B | B |
| ABPBX03120 | Blackburnian Warbler | <i>Dendroica fusca</i> | R | PB | P | B | B | B | B | B |
| ABPBX03170 | Pine Warbler | <i>Dendroica pinus</i> | R | PB | P | B | B | B | M | B |
| ABPBX03210 | Palm Warbler | <i>Dendroica palmarum</i> | R | PB | P | M | B | B | M | B |
| ABPBX03220 | Bay-breasted Warbler | <i>Dendroica castanea</i> | R | PB | P | M | M | B | M | B |
| ABPBX05010 | Black-and-white Warbler | <i>Mniotilta varia</i> | R | PB | P | B | B | B | B | B |
| ABPBX06010 | American Redstart | <i>Setophaga ruticilla</i> | R | PB | P | B | B | B | B | B |
| ABPBX10010 | Ovenbird | <i>Seiurus aurocapillus</i> | R | PB | P | B | B | B | B | B |
| ABPBX10020 | Northern Waterthrush | <i>Seiurus noveboracensis</i> | R | PB | P | B | B | B | B | B |
| ABPBX11020 | Connecticut Warbler | <i>Oporornis agilis</i> | R | PB | P | B | B | B | B | B |
| ABPBX11030 | Mourning Warbler | <i>Oporornis philadelphia</i> | R | PB | P | B | B | B | B | B |
| ABPBX12010 | Common Yellowthroat | <i>Geothlypis trichas</i> | R | PB | P | B | B | B | B | B |
| ABPBX16020 | Wilson's Warbler | <i>Wilsonia pusilla</i> | R | PB | P | M | B | B | B | M |
| ABPBX16030 | Canada Warbler | <i>Wilsonia canadensis</i> | R | PB | P | B | B | B | B | B |
| ABPBX45040 | Scarlet Tanager | <i>Piranga olivacea</i> | R | PB | P | B | B | B | B | B |
| ABPBX60010 | Northern Cardinal | <i>Cardinalis cardinalis</i> | PR | PB | P | P | WV | WV | A | WV |

| Birds | | | | | | | | | | |
|---------------------------|--------------------------|-----------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABPBX61030 | Rose-breasted Grosbeak | <i>Pheucticus ludovicianus</i> | R | PB | P | B | B | B | B | B |
| ABPBX64030 | Indigo Bunting | <i>Passerina cyanea</i> | R | PB | P | B | B | B | B | B |
| ABPBX94020 | Chipping Sparrow | <i>Spizella passerina</i> | R | PB | P | B | B | B | B | B |
| ABPBX94030 | Clay-colored Sparrow | <i>Spizella pallida</i> | R | PB | P | B | B | B | B | B |
| ABPBX99010 | Savannah Sparrow | <i>Passerculus sandwichensis</i> | R | PB | P | B | B | B | B | B |
| ABPBXA0040 | Le Conte's Sparrow | <i>Ammodramus leconteii</i> | R | PB | P | B | B | B | B | B |
| ABPBXA3010 | Song Sparrow | <i>Melospiza melodia</i> | R | PB | P | B | B | B | B | B |
| ABPBXA3020 | Lincoln's Sparrow | <i>Melospiza lincolnii</i> | R | PB | P | B | B | B | B | B |
| ABPBXA3030 | Swamp Sparrow | <i>Melospiza georgiana</i> | R | PB | P | B | B | B | B | B |
| ABPBXA4020 | White-throated Sparrow | <i>Zonotrichia albicollis</i> | R | PB | P | B | B | B | B | B |
| ABPBXA5020 | Dark-eyed Junco | <i>Junco hyemalis</i> | R | PB | P | B | B | B | B | B |
| ABPBXA9010 | Bobolink | <i>Dolichonyx oryzivorus</i> | R | PB | P | B | B | B | B | B |
| ABPBXB0010 | Red-winged Blackbird | <i>Agelaius phoeniceus</i> | R | UB | P | B | B | B | B | B |
| ABPBXB2020 | Eastern Meadowlark | <i>Sturnella magna</i> | R | PB | P | B | B | B | B | B |
| ABPBXB5010 | Rusty Blackbird | <i>Euphagus carolinus</i> | R | PB | P | M | M | M | B | M |
| ABPBXB5020 | Brewer's Blackbird | <i>Euphagus cyanocephalus</i> | R | UB | P | B | A | A | A | B |
| ABPBXB6070 | Common Grackle | <i>Quiscalus quiscula</i> | R | UB | P | B | B | B | B | B |
| ABPBXB7030 | Brown-headed Cowbird | <i>Molothrus ater</i> | R | PB | P | B | B | B | B | B |
| ABPBXB9190 | Baltimore Oriole | <i>Icterus galbula</i> | R | PB | P | B | B | B | B | B |
| ABPBY04020 | Purple Finch | <i>Carpodacus purpureus</i> | R | PB | P | B | B | B | B | B |
| ABPBY04040 | House Finch | <i>Carpodacus mexicanus</i> | PR | PB | P | P | A | A | A | B |
| ABPBY05020 | White-winged Crossbill | <i>Loxia leucoptera</i> | R | PB | P | B | B | B | B | WV |
| ABPBY06030 | Pine Siskin | <i>Carduelis pinus</i> | PR | PB | P | P | P | P | P | P |
| ABPBY06110 | American Goldfinch | <i>Carduelis tristis</i> | R | PB | P | B | B | B | B | B |
| ABPBY09020 | Evening Grosbeak | <i>Coccothraustes vespertinus</i> | PR | PB | P | P | P | P | P | P |

| Birds | | | | | | | | | | |
|---------------------------|--------------------------|--------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| ABPBY0902a | House Sparrow | <i>Passer domesticus</i> | PR | UB | | P | P | P | P | P |

Table 8.2.b. Mammal species list

For the Northern Superior Uplands subsections

| Mammals | | | | | | | | | | |
|---------------------------|-----------------------------|----------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| AMABA01010 | Cinereus Shrew | <i>Sorex cinereus</i> | PR | | | P | P | P | P | P |
| AMABA01150 | Water Shrew | <i>Sorex palustris</i> | PR | | | P | P | P | P | P |
| AMABA01180 | Smoky Shrew | <i>Sorex fumeus</i> | PR | SC | | P | A | P | P | P |
| AMABA01190 | Arctic Shrew | <i>Sorex arcticus</i> | PR | | | P | P | P | P | P |
| AMABA01250 | Pygmy Shrew | <i>Sorex hoyi</i> | PR | | | P | P | P | P | P |
| AMABA03010 | Northern Short-tailed Shrew | <i>Blarina brevicauda</i> | PR | | | P | P | P | P | P |
| AMABB05010 | Star-nosed Mole | <i>Condylura cristata</i> | PR | | | P | P | P | P | P |
| AMACC01010 | Little Brown Myotis | <i>Myotis lucifugus</i> | PR | SC | | B | B | B | B | P |
| AMACC01150 | Northern Myotis | <i>Myotis septentrionalis</i> | PR | SC | | P | B | B | P | B |
| AMACC02010 | Silver-haired Bat | <i>Lasionycteris noctivagans</i> | R | | | B | B | B | B | B |
| AMACC03020 | Eastern Pipistrelle | <i>Pipistrellus subflavus</i> | PR | SC | | P | A | A | P | B |
| AMACC04010 | Big Brown Bat | <i>Eptesicus fuscus</i> | PR | SC | | B | B | B | B | P |
| AMACC05010 | Eastern Red Bat | <i>Lasiurus borealis</i> | R | | | B | B | B | B | B |
| AMACC05030 | Hoary Bat | <i>Lasiurus cinereus</i> | R | | | B | B | B | B | B |
| AMAEB01040 | Eastern Cottontail | <i>Sylvilagus floridanus</i> | PR | PWA, SG | | P | P | P | A | B |
| AMAEB03010 | Snowshoe Hare | <i>Lepus americanus</i> | PR | PWA, SG | | P | P | P | P | P |
| AMAFB02020 | Least Chipmunk | <i>Tamias minimus</i> | PR | | | P | P | P | P | P |
| AMAFB02230 | Eastern Chipmunk | <i>Tamias striatus</i> | PR | | | P | P | P | P | P |

| Mammals | | | | | | | | | | |
|---------------------------|--------------------------------|--|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| AMAFB03010 | Woodchuck | <i>Marmota monax</i> | PR | | | P | P | P | P | P |
| AMAFB05090 | Thirteen-lined Ground Squirrel | <i>Spermophilus tridecemlineatus</i> | PR | | | P | P | P | A | P |
| AMAFB05120 | Franklin's Ground Squirrel | <i>Spermophilus franklinii</i> | PR | | | P | P | P | A | P |
| AMAFB07010 | Eastern Gray Squirrel | <i>Sciurus carolinensis</i> | PR | PWA, SG | | P | A | A | A | P |
| AMAFB08010 | Red Squirrel | <i>Tamiasciurus hudsonicus</i> | PR | | | P | P | P | P | P |
| AMAFB09020 | Northern Flying Squirrel | <i>Glaucomys sabrinus</i> | PR | | | P | P | P | P | P |
| AMAFE01010 | American Beaver | <i>Castor canadensis</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAFF0304a | Woodland Deer Mouse | <i>Peromyscus maniculatus gracilis</i> | PR | | | P | P | P | P | P |
| AMAFF03070 | White-footed Mouse | <i>Peromyscus leucopus</i> | PR | | | P | A | A | A | A |
| AMAFF09020 | Southern Red-backed Vole | <i>Clethrionomys gapperi</i> | PR | | | P | P | P | P | P |
| AMAFF10050 | Eastern Heather Vole | <i>Phenacomys ungava</i> | PR | SC | | A | A | P | P | A |
| AMAFF11010 | Meadow Vole | <i>Microtus pennsylvanicus</i> | PR | | | P | P | P | P | P |
| AMAFF11090 | Rock Vole | <i>Microtus chrotorrhinus</i> | PR | | | P | A | P | P | A |
| AMAFF15010 | Muskrat | <i>Ondatra zibethicus</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAFF17010 | Southern Bog Lemming | <i>Synaptomys cooperi</i> | PR | | | P | P | P | P | P |
| AMAFH01010 | Meadow Jumping Mouse | <i>Zapus hudsonius</i> | PR | | | P | P | P | P | P |
| AMAFH02010 | Woodland Jumping Mouse | <i>Napaeozapus insignis</i> | PR | | | P | P | P | P | P |
| AMAFJ01010 | North American Porcupine | <i>Erethizon dorsatum</i> | PR | UWA | | P | P | P | P | P |
| AMAJA01010 | Coyote | <i>Canis latrans</i> | PR | UWA | | P | P | P | P | P |
| AMAJA01030 | Gray Wolf | <i>Canis lupus</i> | PR | PWA, F | P | P | P | P | P | P |
| AMAJA03010 | Red Fox | <i>Vulpes vulpes</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJA04010 | Gray Fox | <i>Urocyon</i> | PR | PWA, | | P | A | A | A | A |

| Mammals | | | | | | | | | | |
|---------------------------|--------------------------|-------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| | | <i>cinereoargenteus</i> | | SG, F | | | | | | |
| AMAJB01010 | American Black Bear | <i>Ursus americanus</i> | PR | PWA, BG | P, | P | P | P | P | P |
| AMAJE02010 | Northern Raccoon | <i>Procyon lotor</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJF01010 | American Marten | <i>Martes americana</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJF01020 | Fisher | <i>Martes pennanti</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJF02010 | Ermine | <i>Mustela erminea</i> | PR | UWA | | P | P | P | P | P |
| AMAJF02050 | American Mink | <i>Mustela vison</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJF04010 | American Badger | <i>Taxidea taxus</i> | PR | PWA, SG, F | | P | P | P | A | P |
| AMAJF06010 | Striped Skunk | <i>Mephitis mephitis</i> | PR | UWA | | P | P | P | P | P |
| AMAJF10010 | Northern River Otter | <i>Lontra canadensis</i> | PR | PWA, SG, F | | P | P | P | P | P |
| AMAJH01020 | Puma | <i>Puma concolor</i> | PR | PWA, SG, SC | P, | P | P | P | P | P |
| AMAJH03010 | Canada Lynx | <i>Lynx canadensis</i> | PR | PWA, SG, SC | T, P | P | P | P | P | P |
| AMAJH03020 | Bobcat | <i>Felis rufus</i> | PR | PWA, SG, F | P, | P | P | P | A | P |
| AMALC02020 | White-tailed Deer | <i>Odocoileus virginianus</i> | PR | PWA, BG | | P | P | P | P | P |
| AMALC03010 | Moose | <i>Alces alces</i> | PR | PWA, SC | | P | P | P | P | P |

Table 8.2.c. Amphibian and reptile species list

For the Northern Superior Uplands subsections

| Amphibians and Reptiles | | | | | | | | | | |
|---------------------------|--------------------------|----------------------------------|------------------------------|---------------------------------|-----------------------------------|---|---|--|--|--|
| Element Code ^a | Common Name ^a | Scientific Name | Resident Status ^b | State Legal Status ^c | Federal Legal Status ^d | North Shore Highlands ECS Subsection ^e | Toimi Uplands ECS Subsection ^e | Laurentian Uplands ECS Subsection ^e | Border Lakes ECS Subsection ^e | Nashwauk Uplands ECS Subsection ^e |
| AAAAA01060 | Blue-spotted Salamander | <i>Ambystoma laterale</i> | PR | | | P | P | P | P | P |
| AAAAA01140 | Tiger Salamander | <i>Ambystoma tigrinum</i> | PR | | | P | P | P | A | P |
| AAAAD08010 | Four-toed Salamander | <i>Hemidactylium scutatum</i> | PR | SC | | P (L) | A | A | A | A |
| AAAAD12020 | Redback Salamander | <i>Plethodon cinereus</i> | PR | | | P | P | P | P | P |
| AAAAF01030 | Eastern Newt | <i>Notophthalmus viridescens</i> | PR | | | P | P | P | P | P |
| AAABB01020 | American Toad | <i>Bufo americanus</i> | PR | PWA | | P | P | P | P | P |
| AAABC02130 | Gray Treefrog | <i>Hyla versicolor</i> | PR | PWA | | P | P | P | P | P |
| AAABC05070 | Western Chorus Frog | <i>Pseudacris triseriata</i> | PR | PWA | | P | P | P | P | P |
| AAABC05090 | Spring Peeper | <i>Pseudacris crucifer</i> | PR | PWA | | P | P | P | P | P |
| AAABH01090 | Green Frog | <i>Rana clamitans</i> | PR | PWA | | P | P | P | P | P |
| AAABH01170 | Northern Leopard Frog | <i>Rana pipiens</i> | PR | PWA | | P | P | P | P | P |
| AAABH01190 | Mink Frog | <i>Rana septentrionalis</i> | PR | PWA | | P | P | P | P | P |
| AAABH01200 | Wood Frog | <i>Rana sylvatica</i> | PR | PWA | | P | P | P | P | P |
| ARAAB01010 | Snapping Turtle | <i>Chelydra serpentina</i> | PR | PWA | | P | P | P | P | P |
| ARAAD01010 | Painted Turtle | <i>Chrysemys picta</i> | PR | PWA | | P | P | P | P | P |
| ARAAD02020 | Wood Turtle | <i>Clemmys insculpta</i> | PR | PWA, T | | P (L) | P | A | A | A |
| ARAAD04010 | Blanding's Turtle | <i>Emydoidea blandingii</i> | PR | PWA, T | | P (L) | A | A | A | A |
| ARADB10010 | Ringneck Snake | <i>Diadophis punctatus</i> | PR | | | P | A | A | A | A |
| ARADB34030 | Redbelly Snake | <i>Storeria occipitomaculata</i> | PR | | | P | P | P | P | P |
| ARADB36130 | Common Garter Snake | <i>Thamnophis sirtalis</i> | PR | | | P | P | P | P | P |

^a **Element Code and Species Common Name:** Are standardized nomenclature for GAP protocol uses through NatureServe and it's related searchable plant, animal and ecological communities database called NatureServe Explorer (2002) located at <www.natureserveexplorer.org>.

^b **Resident Status (2006):** R=Regular resident as Breeding, Nesting, or Migratory (acceptable record exists in at least eight of the past ten years); PR=Permanent Resident (exists year-round).

^c **State Legal Status (2014):** E=State Endangered; T=State Threatened; SC=State Species of Special Concern; BG=Big Game; SG=Small Game; F=Furbearer; MW=Migratory Waterfowl; UB=Unprotected Bird; PB=Protected Bird; PWA=Protected Wild Animal; UWA=Unprotected Wild Animal.

^d **Federal Legal Status(2014):** T=Federal Threatened; E=Federal Endangered; P=Federal Protection by Migratory Bird Treaty Act and/or Bald Eagle Protection Act and/or CITES.

^e **ECS Subsection Resident Status(2006):** B=Minnesota breeding record exists for the species; P=Presence known or predicted, as year around resident; (L)=Limited distribution within ECS Subsection; M=Spring or fall migrant, non-breeder; SV=Summer visitor, non-breeder; WV=Winter visitor, non-breeder; A=Absent.

^A **MNWRAP Disclaimer:** This species list is a representation of the occurrence of these species as of 2006, based upon Minnesota Ecological Classification System Subsections. The species may not occur everywhere within the Subsection. Animal distributions are dynamic and occurrence revisions may be made as new information becomes available.

Habitat Relationships by Minnesota GAP Analysis Project (MN-GAP) land cover type

Table 8.3.a. Mammal habitat relationships

| SPECIES GROUP Species common name | | habitat Feature | | Mammal habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----------------------|------------------------------------|----------|---|-------------|--------------|-------------------------|-------------------------|-------|------------------|--------------|-------------------------|-----------------------------|----------|----------------|----------------|--------------|---------------------|--------------------|---------------------------|------------------------------|----------------------|-------------------------|----------|-------------------|---------------------|--------------------------|------------------|-------------------|---------------|-------------------------------|-------------------|----------------------|-----------|--------------|------------|-----------------------|---|----------|---------|-------------|------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Non-Forest land cover types>>> | | | | | | | | | Forest land cover types>>>> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Barren | Urban/ Dev. | | Ag./Grass | | Shrub | | Aquatic | | Upland Coniferous Forest | | | | | | | Lowland Coniferous Forest | | | Upland Deciduous Forest | | | | Lowland Deciduous Forest | | | | Low. deciduous/coniferous mix | Forest size class | | | | | | | | | | | | | | | | | | | | | | | | | |
| | High intensity urban | Low intensity urban Transportation | Cropland | Grassland | Prairie | Upland shrub | Lowland deciduous shrub | Lowland evergreen shrub | Water | Floating aquatic | Sedge Meadow | Broadleaf sedge/Cattail | Jack Pine | Red Pine | White Pine mix | Balsam Fir mix | White Spruce | Upland Black Spruce | Up. N. White Cedar | Upland Conifer | Up. coniferous/deciduous mix | Lowland Black Spruce | Stagnant black spruce | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | | Seedling | Sapling | Pole timber | Saw timber | Uneven | | | | | | | | | | | | | | |
| INSECTIVORES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Short-tailed Shrew | D | | Y | | | Y | Y | | | | Y | Y | Y | Y | Y | | Y | | | | Y | Y | | Y | | | | | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | |
| Arctic Shrew | R | | | | | | Y | Y | | | Y | Y | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | | | | | | | | | |
| Cinereus Shrew | D | | | | | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Smoky Shrew | D | | Y | | | | | | | | | | | | Y | | Y | | | | | Y | | | | Y | | | | | | | | | | | | | | | | | | | Y | | Y | Y | Y | Y | | | | | | | |
| Pygmy Shrew | D | | | | | Y | Y | | Y | Y | Y | | | Y | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | Y | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | |
| Water Shrew | DR | | | | | | | | Y | Y | Y | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Star-nosed Mole | DR | | | | | | | | Y | Y | Y | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| BATS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Big Brown Bat | CRS | | Y | | | Y | Y | | Y | | | Y | Y | Y | | Y | Y | | | Y | Y | Y | | | | | | | Y | Y | Y | | Y | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| Silver-haired Bat | CRS | | | | | | | | Y | | | | Y | Y | | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | |
| Eastern Red Bat | CR | | Y | Y | | Y | | Y | Y | | Y | | | | | | Y | Y | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | |
| Hoary Bat | R | | Y | | | Y | | Y | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | |
| | MCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eastern Pipistrelle | R | | Y | | | Y | Y | Y | | Y | Y | | | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| Little Brown Myotis | CRS | | | | | Y | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | |
| Northern Myotis | CRS | | Y | Y | | Y | Y | Y | | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | |
| CARNIVORES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coyote | M | | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Gray Wolf | M | | | | | Y | Y | | Y | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Gray Fox | CDM | | | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Fox | | | Y | | | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Muskrat | R | | | | | | | | Y | | | Y | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| Southern Bog Lemming | | | | | | Y | Y | Y | Y | Y | | | Y | | | | Y | Y | Y | | Y | | Y | Y | Y | Y | Y | Y | Y | | | Y | Y | Y | Y | | Y | Y | | |
| North American Porcupine | CDS | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | | Y | Y | | | | | | | | | | | | Y | Y | | | Y | | |
| RABBITS AND HARES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snowshoe Hare | E | | | | | | | | Y | Y | Y | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | |
| Eastern Cottontail | E | | Y | Y | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y |

| SPECIES GROUP Species Common Name | | Habitat feature | Bird habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type>> | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | | | | | | | Forest size class | | | | | |
|--------------------------------------|------|-----------------|---|-----------|-------|---|---------|---|---|--------------------------|---|---|---|------------------------------|----------------------------|-----------------------|----------|-------------------|---------------------------|-------------------------|------------------|-------------------|-------------------------|---------|----------------|----------------------|--------------------------|--------------|------------|-----------------------|----------|---------|-------------|------------|-------------------|-------------------------------|---|---|---|---|
| | | | Non-Forested types>>> | | | | | | | | | | | | Forest land cover types>>> | | | | Lowland Coniferous Forest | | | | Upland Deciduous Forest | | | | Lowland Deciduous Forest | | | | Seedling | Sapling | Pole timber | Saw timber | Uneven | | | | | |
| | | | Urban/ Dev. | Ag./Grass | Shrub | | Aquatic | | | Upland Coniferous Forest | | | | Up. coniferous/deciduous mix | Lowland Black Spruce | Stagnant black spruce | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | | | | | | Low. deciduous/coniferous mix | | | | |
| American Wigeon | R | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Black Duck | R | | | | | Y | Y | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | |
| Mallard | RM | | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | |
| Blue-winged Teal | R | | | | Y | Y | Y | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green-winged Teal | R | | | | | Y | Y | Y | Y | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ring-necked Duck | | | | | | | | | Y | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Common Goldeneye | CR S | | | | | | | | | | Y | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | |
| Hooded Merganser | CR S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| Common Merganser | CR S | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| OSPREYS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osprey | RS | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| HAWKS AND EAGLES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bald Eagle | R | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| Northern Harrier | | | | | Y | Y | Y | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | |
| Sharp-shinned Hawk | | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | Y | Y | | |
| Cooper's Hawk | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| Northern Goshawk | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y |
| Red-shouldered Hawk | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| Broad-winged Hawk | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | |
| Red-tailed Hawk | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | |
| FALCONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | Bird habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type>> | | | | | | | | | | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------------|---|--------|----------------------|---------------------|----------------|----------|--------------------------|---------|--------------|-------------------------|-------------------------|-------|----------------------------|--------------|-------------------------|-----------|---------------------------|----------------|----------------|--------------|-------------------------|--------------------|----------------|------------------------------|--------------------------|-----------------------|-------------------|----------|-------------------|---------------------|-------------------------|------------------|-------------------|---------------|---------|----------------|----------------------|-----------|--------------|------------|-----------------------|-------------------------------|---|---|---|--|--|
| | | Non-Forested types>>> | | | | | | | | | | | | Forest land cover types>>> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIES GROUP | Species Common Name | Habitat feature | Barren | Urban/ Dev. | Ag./Grass | Shrub | Aquatic | Upland Coniferous Forest | | | | | | | | | | Lowland Coniferous Forest | | | | Upland Deciduous Forest | | | | Lowland Deciduous Forest | | Forest size class | | | | | | | | | | | | | | | | | | | | |
| | | | | High intensity urban | Low intensity urban | Transportation | Cropland | Grassland | Prairie | Upland shrub | Lowland deciduous shrub | Lowland evergreen shrub | Water | Floating aquatic | Sedge Meadow | Broadleaf sedge/Cattail | Jack Pine | Red Pine | White Pine mix | Balsam Fir mix | White Spruce | Upland Black Spruce | Up. N. White Cedar | Upland Conifer | Up. coniferous/deciduous mix | Lowland Black Spruce | Stagnant black spruce | | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | Low. deciduous/coniferous mix | | | | | |
| KINGFISHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Belted Kingfisher | B | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WOODPECKER S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Red-headed Woodpecker | CM S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Yellow-bellied Sapsucker | CM S | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | |
| | Downy Woodpecker | CD S | | | | | | | | | | | | | | | | | | | | | Y | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| | Hairy Woodpecker | CD S | | | | | | | | | | | | | | | | Y | Y | Y | | | | | | | | Y | Y | | Y | | | | | | | | | | | | | | | | | |
| | Three-toed Woodpecker | CD S | | | | | | | | | | | | | | | Y | | | Y | Y | | | | | | | Y | Y | | | | | | | | | | | | | | | | | | | |
| | Black-backed Woodpecker | CD S | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | |
| | Northern Flicker | CS | | | | | Y | Y | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | |
| | Pileated Woodpecker | CD MS | | | | | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | |
| FLYCATCHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Eastern Kingbird | MR S | | | Y | | | | | | | | | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Olive-sided Flycatcher | RS | | | | | | | | | | | | | | | | | | | | Y | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | |
| | Eastern Wood-Pewee | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Yellow-bellied Flycatcher | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Alder Flycatcher | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Least Flycatcher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Eastern Phoebe | R | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SPECIES GROUP Species Common Name | | Habitat feature | Bird habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type>>> | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | Forest size class | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-----------------|--|---------------------|----------------|----------|-----------|---------|--------------|-------------------------|-----------------------------|-------|------------------|--------------|-------------------------|-----------|------------------------------|----------------|---------------------------|--------------|-------------------------|--------------------|--------------------------|------------------------------|-------------------------------|-----------------------|----------|-------------------|---------------------|-------------------------|------------------|-------------------|---------------|---------|----------------|----------------------|-----------|--------------|------------|-----------------------|-------------------------------|----------|---------|-------------|------------|--------|---|---|---|---|---|---|---|---|--|--|--|--|
| | | | Non-Forested types>>>> | | | | | | | | Forest land cover types>>>> | | | | | | | | Lowland Coniferous Forest | | Upland Deciduous Forest | | Lowland Deciduous Forest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Urban/ Dev. | | Ag./Grass | | Shrub | | Aquatic | | Upland Coniferous Forest | | | | | | Up. coniferous/deciduous mix | | Lowland Coniferous Forest | | Upland Deciduous Forest | | Lowland Deciduous Forest | | Low. deciduous/coniferous mix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | High intensity urban | Low intensity urban | Transportation | Cropland | Grassland | Prairie | Upland shrub | Lowland deciduous shrub | Lowland evergreen shrub | Water | Floating aquatic | Sedge Meadow | Broadleaf sedge/Cattail | Jack Pine | Red Pine | White Pine mix | Balsam Fir mix | White Spruce | Upland Black Spruce | Up. N. White Cedar | Upland Conifer | Up. coniferous/deciduous mix | Lowland Black Spruce | Stagnant black spruce | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | Low. deciduous/coniferous mix | Seedling | Sapling | Pole timber | Saw timber | Uneven | | | | | | | | | | | | |
| Great Crested Flycatcher | | CS | | Y | | | | | Y | Y | | | | | | | | | | | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | | | | | Y | Y | | | | | | | | | | | | |
| SHRIKES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Shrike | | | | | | | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | | | | | | |
| Loggerhead Shrike | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VIREOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow-throated Vireo | | R | | Y | | | | | Y | Y | | | | | | | | | | | | | Y | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | Y | Y | Y | | | | |
| Blue-headed Vireo | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | Y | Y | | | | |
| Warbling Vireo | | R | | Y | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | |
| Philadelphia Vireo | | ER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | | | Y | Y | | | | | | | | | | | | | | | | | | | |
| Red-eyed Vireo | | | | | | | | | | | | | | | | Y | Y | | Y | Y | | Y | | | | | | | | | | | | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| JAYS, CROWS AND RAVENS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray Jay | | M | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| Blue Jay | | M | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | |
| American Crow | | M | | Y | | Y | Y | Y | Y | Y | Y | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | |
| Common Raven | | M | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | |
| SWALLOWS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Purple Martin | | RS | Y | Y | | | Y | | | | | Y | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tree Swallow | | CS | | | | | Y | Y | | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Rough-winged Swallow | | BR | Y | | | | | | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bank Swallow | | BR | Y | | | | Y | Y | | | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cliff Swallow | | R | | | | | Y | Y | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barn Swallow | | | | | | | Y | Y | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHICKADEES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SPECIES GROUP Species Common Name | | Habitat feature | Bird habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type>>> | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------------|-----------------|--|-----------|---------|--------------|--------------------------|-------------------------|-------|------------------|------------------------------|---------------------------|-----------|----------|-----------------------------|-------------------------|--------------|---------------------|--------------------|--------------------------|----------------------|-----------------------|----------|-------------------------------|---------------------|-------------------------|------------------|-------------------|---------------|---------|----------------|----------------------|-----------|--------------|------------|-----------------------|----------|---------|-------------|------------|--------|---|---|---|---|---|---|---|
| | | | Non-Forested types>>>> | | | | | | | | | | | | Forest land cover types>>>> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Urban/ Dev. | Ag./Grass | Shrub | Aquatic | Upland Coniferous Forest | | | | Up. coniferous/deciduous mix | Lowland Coniferous Forest | | | | Upland Deciduous Forest | | | | Lowland Deciduous Forest | | | | Low. deciduous/coniferous mix | | | | Forest size class | | | | | | | | | | | | | | | | | | | | |
| High intensity urban | Low intensity urban | Transportation | Cropland | Grassland | Prairie | Upland shrub | Lowland deciduous shrub | Lowland evergreen shrub | Water | Floating aquatic | Sedge Meadow | Broadleaf sedge/Cattail | Jack Pine | Red Pine | White Pine mix | Balsam Fir mix | White Spruce | Upland Black Spruce | Up. N. White Cedar | Upland Conifer | Lowland Black Spruce | Stagnant black spruce | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | Seedling | Sapling | Pole timber | Saw timber | Uneven | | | | | | | |
| THRASHERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray Catbird | MR | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown Thrasher | M | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WAXWINGS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cedar Waxwing | MR | | | Y | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| WARBLERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Golden-winged Warbler | R | | | | | | | | | | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tennessee Warbler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nashville Warbler | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Northern Parula | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| Yellow Warbler | R | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chestnut-sided Warbler | | | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnolia Warbler | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| Cape May Warbler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black-throated Blue Warbler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow-rumped Warbler | | | | | | | | | | | | | | Y | Y | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black-throated Green Warbler | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | |
| Blackburnian Warbler | | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pine Warbler | | | | | | | | | | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Palm Warbler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bay-breasted Warbler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black-and-white Warbler | D | | | | | | | | | | | | | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SPECIES GROUP Species Common Name | | Habitat feature | Amphibian habitat relationships by Minnesota Gap Analysis Project (MN-GAP) land cover type | | | | | | | | | | | | | | | | | | | | NSU Section | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|----|----------------------|--|----------------|-----------|-----------|---------|--------------|-------------------------|-------------------------|-------|------------------|----------------------------|-------------------------|-----------|----------|----------------|---------------------------|--------------|---------------------|--------------------|----------------|------------------------------|----------------------|-----------------------|----------|-------------------|--------------------------|-------------------------|------------------|-------------------|---------------|------------------------|----------------|----------------------|-----------|--------------|------------|-----------------------|-------------------------------|----------|---------|-------------|------------|--------|---|---|--|--|--|--|
| | | | Non-Forest land cover types>>> | | | | | | | | | | Forest land cover types>>> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Urban/ Dev. | | Ag./Grass | | Shrub | | Aquatic | | | | Upland Coniferous Forest | | | | | Lowland Coniferous Forest | | | | | Upland Deciduous Forest | | | | | Lowland Deciduous Forest | | | | | Forest type size class | | | | | | | | | | | | | | | | | | |
| Barren | | High intensity urban | Low intensity urban | Transportation | Cropland | Grassland | Prairie | Upland shrub | Lowland deciduous shrub | Lowland evergreen shrub | Water | Floating aquatic | Sedge Meadow | Broadleaf sedge/Cattail | Jack Pine | Red Pine | White Pine mix | Balsam Fir mix | White Spruce | Upland Black Spruce | Up. N. White Cedar | Upland Conifer | Up. coniferous/deciduous mix | Lowland Black Spruce | Stagnant black spruce | Tamarack | Stagnant tamarack | Low. N. White Cedar | Stagnant N. White Cedar | Stagnant conifer | Aspen/White Birch | Bur/White Oak | Red Oak | Maple/Basswood | Upland deciduous mix | Black Ash | Silver Maple | Cottonwood | Lowland deciduous mix | Low. deciduous/coniferous mix | Seedling | Sapling | Pole timber | Saw timber | Uneven | | | | | | |
| Redbelly Snake | D | | | | | Y | | | | | | | | Y | | Y | Y | Y | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | |
| Ringneck Snake | DS | | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Common Garter Snake | D | Y | Y | | | Y | Y | Y | Y | Y | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | |
| TURTLES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Snapping Turtle | R | | | | | | | | | | Y | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Painted Turtle | DR | | | | | | | | Y | | Y | Y | | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wood Turtle | DR | Y | | Y | | Y | Y | Y | Y | Y | | Y | Y | | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | | | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | | | | |
| Blanding's Turtle | | | | | | Y | Y | | | | Y | Y | Y | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |