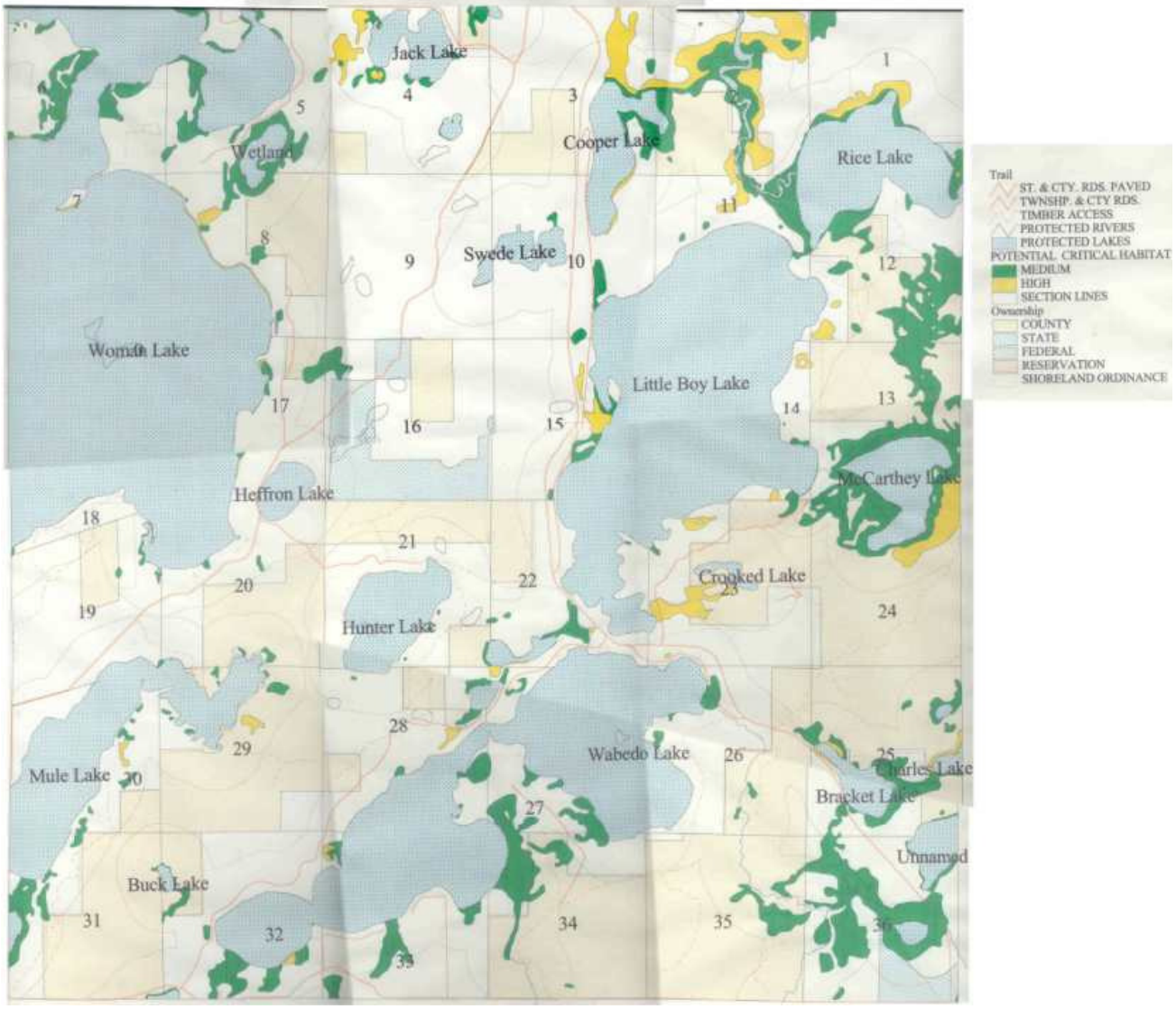
WABEDO TOWNSHIP
CRITICAL HABITAT AREAS



Minnesota Natural Her[illegible] & Nongame Research Program
Short Record Report of El[illegible]ent Occurrences within/adjacent to:
Wabedo Township
T140N R28W Sections 1-36
Cass County

Element Name and Occurrence Number	Federal Status	MN Status	State Rank	Global Rank	Last Observed Date
Cass County, MN					
Arethusa bulbosa (Dragon's-mouth) #80 Location Description: T140N R28W S1, T141N R28W S35, T141N R28W S36		NON	S4	G4	1995-06-18
Aspen - Birch - Basswood Forest Type #1056 Location Description: T140N R28W S9, T140N R28W S8		N/A	S4	GNR	1993-09-10
Botrychium mormo (Goblin Fern) #47 Location Description: T140N R28W S6, T140N R28W S5		SPC	S3	G3	1994-09-13
Emydoidea blandingii (Blanding's Turtle) #233 Location Description: T140N R28W S20		THR	S2	G4	1987-08-29
Graminoid Rich Fen (Basin) Type #1866 Location Description: T140N R28W S35, T139N R28W S2		N/A	S4	GNR	1993-08-20
Haliaeetus leucocephalus (Bald Eagle) #29 Location Description: T140N R28W S13	LT,PDL	SPC	S3B,S3N	G5	2005-03-26
Haliaeetus leucocephalus (Bald Eagle) #757 Location Description: T141N R28W S32, T141N R28W S33	LT,PDL	SPC	S3B,S3N	G5	2005-04-13
Haliaeetus leucocephalus (Bald Eagle) #1475 Location Description: T140N R28W S23	LT,PDL	SPC	S3B,S3N	G5	2005-03-26
Haliaeetus leucocephalus (Bald Eagle) #1880 Location Description: T140N R29W S25, T140N R29W S24	LT,PDL	SPC	S3B,S3N	G5	2005-03-26
Haliaeetus leucocephalus (Bald Eagle) #2134 Location Description: T140N R28W S23	LT,PDL	SPC	S3B,S3N	G5	2005-03-26
Ice deposition (quaternary) (Ice Deposition (Quaternary)) #2 Location Description: T140N R28W S18, T140N R28W S7		N/A	SNR	GNR	1980-06-
Myriophyllum tenellum (Leafless Water Milfoil) #18 Location Description: T140N R28W S17, T140N R28W S20		NON	SNA	G5	1992-10-02
Najas gracillima (Thread-like Naiad) #6 Location Description: T140N R28W S17, T140N R28W S20		SPC	S3	G5?	1992-10-02
Native Plant Community, Undetermined Class #1135 Location Description: T140N R28W S6, T140N R28W S5		N/A	SNR	GNR	1993-09-30
Waldsteinia fragarioides (Barren Strawberry) #35 Location Description: T140N R28W S3, T140N R28W S11, T140N R28W S10, T140N R28W S2		SPC	S3	G5	1999-08-30

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Minnesota Natural Heritage & Nongame Research Program
Short Record Report of Element Occurrences within/adjacent to:
Wabedo Township
T140N R28W Sections 1-36
Cass County

Element Name and Occurrence Number	Federal Status	MN Status	State Rank	Global Rank	Last Observed Date

Records Printed = 15

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Minnesota Natural Herita Nongame Research Program
Long Record Report of Elem . Occurrences within/adjacent to:
Wabedo Township
T140N R28W Sections 1-36
Cass County

Element Name and Occ. #: Arethusa bulbosa (Dragon's-mouth) #80 — **EO ID #:** 6123

Observed Area:
Extent Known?:
Ownership Type: US Forest Service
Location Description: Cass County, MN
T140N R28W S1, T141N R28W S35, T141N R28W S36
Site Name: KEGO 36
Survey Site #/Name:
Vegetation Plot:

Last Observed Date: 1995-06-18
First Observed Date: 1995-06-18
Last Survey Date:
Managed Area(s): Leech Lake Reservation, Chippewa National Forest
Survey Type:
Surveyor(s): Steele, W.

MN Status: Tracked, but no legal status
Federal Status:
State Rank: S4
Global Rank: G4
EO Rank: Not ranked

General Description: COMPARTMENT 61 OF WALKER DISTRICT. 100+ PLANTS. SITE REPORTED BY DR. WILLIAM STEELE, VACATIONING IN MN. SITE IS SPHAGNUM BOG, 1.5 E OF LONGVILLE ON NORTH SIDE CO RD 7. BOG IS ALONG SE SHORE OF TAMARACK LAKE. PLANTS DISPERSED OVER MANY ACRES.
EO Data:

Element Name and Occ. #: Aspen - Birch - Basswood Forest Type #1056 — **EO ID #:** 18448
NPC Classification (v1.5): MAPLE-BASSWOOD FOREST (NORTHERN)

Observed Area:
Extent Known?:
Ownership Type: Private individual
Location Description: Cass County, MN
T140N R28W S9, T140N R28W S8
Site Name: WABEDO 4
Survey Site #/Name: MCBS Site Number 136
Vegetation Plot: RELEVE 1993

Last Observed Date: 1993-09-10
First Observed Date: 1993-09-10
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Boe, J. S.

MN Status: N/A
Federal Status:
State Rank: S4
Global Rank: GNR
EO Rank: BC - Good or fair estimated viability

General Description: EAST SIDE OF WOMAN LAKE. ACER SACCHARUM AND TILIA AMERICANA WITH BETULA PAP & QUERCUS RUBRA ON ITASCA MORAINE. SANDY LOAM WITH CLAY OVER TAN SAND WITH CLAY. DENSE SHRUB LAYER WITH ACER SACCHARUM, DIRCA PALUSTRIS, OSTRYA VIRGINIANA. DENSE GRAMINOID LAYERDOMINATED BY CAREX PENSYLVANICA. FORBS INCLUDE UVULARIA GRAND- IFLORA, ASTER MAC, DESMODIUM GLUT, AND PTERIDIUM AQ. RELEVE 93-55.
EO Data:

Element Name and Occ. #: Botrychium mormo (Goblin Fern) #47 — **EO ID #:** 20021

Observed Area:
Extent Known?:
Ownership Type: MN DNR Wildlife (state land not WMA mgd by DNR)
Location Description: Cass County, MN
T140N R28W S6, T140N R28W S5
Site Name: WOMAN LAKE PEN.
Survey Site #/Name: MCBS Site Number 230
Vegetation Plot:

Last Observed Date: 1994-09-13
First Observed Date: 1994-09-13
Last Survey Date:
Managed Area(s): George Cook WMA
Survey Type:
Surveyor(s): Boe, J. S.

MN Status: Special Concern
Federal Status:
State Rank: S3
Global Rank: G3
EO Rank: Not ranked

General Description: MAPLE-BASSWOOD WITH YELLOW BIRCH. 11 PLANTS. WITH CAREX PENDUNCULATA, ARALIA RACEMOSA, UVULARIA GRANDIFLORA, TILIA SEEDLINGS, ARALIA NUDICAULIS, POLYGONATUM PUBESCENS. PLANTS LOCATED JUST NORTH OF PLANTED RED PINE ALONG GRAVEL ROAD. (VERIFIED BY W.H. WAGNER 1998).
EO Data:

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Minnesota Natural Heritage & Nongame Research Program
Long Record Report of Element Occurrences within/adjacent to:
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T140N R28W Sections 1-36
Cass County

Element Name and Occ. #: Emydoidea blandingii (Blanding's Turtle) #233 **EO ID #:** 7401

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S20
Site Name: WABEDO 20
Survey Site #/Name:

Last Observed Date: 1987-08-29
First Observed Date:
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Jesse, R.

MN Status: Threatened
Federal Status:
State Rank: S2
Global Rank: G4
EO Rank: Not ranked

General Description: 1 TURTLE FOUND AND MEASURED, 10.25 INCHES. TURTLE FOUND ALONG SIDE OF HIGHWAY 84 SIX MILES SOUTH OF LONGVILLE.
EO Data:

Element Name and Occ. #: Graminoid Rich Fen (Basin) Type #1866 **EO ID #:** 18445
NPC Classification (v1.5): WET MEADOW

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S35, T139N R28W S2
Site Name: WABEDO 35
Survey Site #/Name: MCBS Site Number 150
Vegetation Plot: RELEVE 1993

Last Observed Date: 1993-08-20
First Observed Date: 1993-08-20
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Boe, J. S.

MN Status: N/A
Federal Status:
State Rank: S4
Global Rank: GNR
EO Rank: Not ranked

General Description: DOMINATED BY CAREX OLIGOSPERMA. SHRUBS AND FORBS SPARSE, INCLUDING SALIX PETIOLARIS, SALIX PYRIFOLIA, UTRICULARIA INTERMEDIA, ASTER BOREALIS, TRIADENUM FRASERI, & EPILOBIUM LEPTOPHYLLUM. SATURATED PEAT. 6 INCH STANDING WATER. SCANT SPHAGNUM. ON CROW WING OUTWASH PLAIN. EXTENDS SOUTH OF ROAD INTO SITE 151 (T139N R28W NW02). RELEVE 93-44.
EO Data:

Element Name and Occ. #: Haliaeetus leucocephalus (Bald Eagle) #29 **EO ID #:** 1999

Observed Area:
Extent Known?:
Ownership Type: State of Minnesota (Other Lands)
Location Description: Cass County, MN
T140N R28W S13
Site Name: WABEDO 13
Survey Site #/Name:

Last Observed Date: 2005-03-26
First Observed Date: 1983
Last Survey Date: 2005-03-26
Managed Area(s):
Survey Type: Qualitative ground survey
Surveyor(s): U.S.F.W.S. Region 3 Endangered Species Office,Woizeschke, K.

MN Status: Special Concern
Federal Status: LT,PDL
State Rank: S3B,S3N
Global Rank: G5
EO Rank: E - Verified extant (viability not assessed)

General Description: Nesting Area. McCarthey Lake. Management Plan completed. EO represents two nests, one nest gone.
EO Data: EO represents two nests, one nest gone. Remaing nest is in a white pine. Nest was active when last checked in 1994-1996 and 2005; not found in 2000 and rebuilt before 2005 survey.

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Element Name and Occ. #: Haliaeetus leucocephalus (Bald Eagle) #757 — **EO ID #:** 9928

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T141N R28W S32, T141N R28W S33
Site Name: KEGO 32
Survey Site #/Name:

Last Observed Date: 2005-04-13
First Observed Date: 1989
Last Survey Date: 2005-03-26
Managed Area(s): Chippewa National Forest
Survey Type: Qualitative ground survey
Surveyor(s): USFS,Woizeschke, K.

MN Status: Special Concern
Federal Status: LT,PDL
State Rank: S3B,S3N
Global Rank: G5
EO Rank: E - Verified extant (viability not assessed)

General Description: Nesting Area. Broadwater Bay. EO represents two nests, the eastern nest is gone.
EO Data: EO represents two nests. Western nest was in a dead white pine, and active 1994 -2000, except inactive in 1998. Reported as down in early 2005, but later survey reported it as rebuilt and active. Eastern nest was found in 2000, active in 2000 and 2003, but not found in 2004-2005.

Element Name and Occ. #: Haliaeetus leucocephalus (Bald Eagle) #1475 — **EO ID #:** 20962

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S23
Site Name: WABEDO 23
Survey Site #/Name:

Last Observed Date: 2005-03-26
First Observed Date: 1999
Last Survey Date: 2005-03-26
Managed Area(s):
Survey Type: Qualitative ground survey
Surveyor(s): Woizeschke, K.

MN Status: Special Concern
Federal Status: LT,PDL
State Rank: S3B,S3N
Global Rank: G5
EO Rank: E - Verified extant (viability not assessed)

General Description: Nesting Area. Little Boy Lake.
EO Data: Nest is in an aspen. Nest active when checked in 1995-1996, 1999-2000, and 2005.

Element Name and Occ. #: Haliaeetus leucocephalus (Bald Eagle) #1880 — **EO ID #:** 26389

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R29W S25, T140N R29W S24
Site Name: WOODROW 24
Survey Site #/Name:

Last Observed Date: 2005-03-26
First Observed Date: 2000
Last Survey Date: 2005-03-26
Managed Area(s):
Survey Type: Qualitative ground survey
Surveyor(s): Lenning, B., Woizeschke, K.

MN Status: Special Concern
Federal Status: LT,PDL
State Rank: S3B,S3N
Global Rank: G5
EO Rank: E - Verified extant (viability not assessed)

General Description: Nesting Area. Foxhill Trail.
EO Data: Nest is in a white pine. Nest was active when checked in 2000 and 2005.

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Element Name and Occ. #: Haliaeetus leucocephalus (Bald Eagle) #2134 **EO ID #:** 27072

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S23
Site Name: WABEDO 23
Survey Site #/Name:

Last Observed Date: 2005-03-26
First Observed Date: 1995
Last Survey Date: 2005-03-26
Managed Area(s):
Survey Type: Qualitative ground survey
Surveyor(s): Woizeschke, K.

MN Status: Special Concern
Federal Status: LT,PDL
State Rank: S3B,S3N
Global Rank: G5
EO Rank: E - Verified extant (viability not assessed)

General Description: Nesting Area. Little Boy Lake.
EO Data: Nest is in a white pine. Nest was active when checked in 1995-1996, 1999-2000, and 2005. It was reported as not found in 2001, so possibly down and rebuilt before 2005.

Element Name and Occ. #: Ice deposition (quaternary) (Ice Deposition (Quaternary)) #2 **EO ID #:** 40

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S18, T140N R28W S7
Site Name:
Survey Site #/Name:
Vegetation Plot:

Last Observed Date: 1980-06-
First Observed Date:
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Sansome, C. J.

MN Status: N/A
Federal Status:
State Rank: SNR
Global Rank: GNR
EO Rank: Not ranked

General Description: HORSESHOE ISLAND. PROBABLY FORMED BY ICE PUSHING UP MATERIAL ON SHORE TO CAUSE ICE RAMPARTS. STILL AN ACTIVE PROCESS. IN E PART OF WOMAN L. OTH RAMPARTS NEARBY
EO Data:

Element Name and Occ. #: Myriophyllum tenellum (Leafless Water Milfoil) #18 **EO ID #:** 14593

Observed Area:
Extent Known?:
Ownership Type: Private individual
Location Description: Cass County, MN
T140N R28W S17, T140N R28W S20
Site Name: WABEDO 17
Survey Site #/Name:
Vegetation Plot:

Last Observed Date: 1992-10-02
First Observed Date: 1992-10-02
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Myhre, K. M.

MN Status: Tracked, but no legal status
Federal Status:
State Rank: SNA
Global Rank: G5
EO Rank: Not ranked

General Description: LOCATED ON THE NORTHWEST SHORE OF HEFFRON LAKE, WHICH IS A SHALLOW, SAND- BOTTOMED 75 ACRE LAKE. THE PLANTS OCCUR FROM THE SHORELINE IN SOME AREAS, TO 8 METERS INTO THE LAKE AT AN AVERAGE WATER DEPTH OF 0.5 METER. ASSOCIATED SPECIES INCLUDE: POTAMOGETONPECTINATUS, NAJAS FLEXILIS, AND JUNCUS SP.
EO Data:

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Minnesota Natural Herita(Nongame Research Program
Long Record Report of Eleme.. Occurrences within/adjacent to:
Wabedo Township
T140N R28W Sections 1-36
Cass County

Element Name and Occ. #: Najas gracillima (Thread-like Naiad) #6 — **EO ID #:** 14302

Observed Area:
Extent Known?:
Ownership Type: Private individual
Location Description: Cass County, MN
T140N R28W S17, T140N R28W S20
Site Name: WABEDO 17
Survey Site #/Name:
Vegetation Plot:

Last Observed Date: 1992-10-02
First Observed Date: 1992-10-02
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Myhre, K. M.

MN Status: Special Concern
Federal Status:
State Rank: S3
Global Rank: G5?
EO Rank: Not ranked

General Description: LOCATED ALONG THE NORTHWEST SHORE OF HEFFRON LAKE. PLANTS OBSERVED FLOATING ALONG THE SHALLOW, SANDY SHORELINE ASSOCIATED WITH NAJAS FLEXILIS AND MYRIOPHY- LLUM TENELLUM. INFREQUENT OCCURRENCE AT THIS LOCATION.
EO Data:

Element Name and Occ. #: Native Plant Community, Undetermined Class #1135 — **EO ID #:** 18433
NPC Classification (v1.5): MAPLE-BASSWOOD FOREST (NORTHERN)

Observed Area:
Extent Known?:
Ownership Type: MN DNR Wildlife (state land not WMA mgd by DNR)
Location Description: Cass County, MN
T140N R28W S6, T140N R28W S5
Site Name: WOMEN LAKE PEN.
Survey Site #/Name: MCBS Site Number 230
Vegetation Plot:

Last Observed Date: 1993-09-30
First Observed Date: 1993-09-30
Last Survey Date:
Managed Area(s): George Cook WMA
Survey Type:
Surveyor(s): Boe, J. S.

MN Status: N/A
Federal Status:
State Rank: SNR
Global Rank: GNR
EO Rank: Not ranked

General Description: PENINSULA IN NORTH END OF WOMAN LAKE. ACER SACCHARUM AND TILIA AM WITH BETULA PAP. STRONG D3 LAYER OF ACER SACCHARUM. DIRCA PAL COMMON. OLD BIRCH SNAGS, DECAYING BIRCH LOGS. CAREX PEDUNCULATA, OSTRYA VIRG, UVULARIA GRAND. BRIEF WALKTHROUGH LATE IN SEASON. REVISIT.
EO Data:

Element Name and Occ. #: Waldsteinia fragarioides (Barren Strawberry) #35 — **EO ID #:** 30573

Observed Area:
Extent Known?:
Ownership Type: Unknown
Location Description: Cass County, MN
T140N R28W S3, T140N R28W S11, T140N R28W S10, T140N R28W S2
Site Name: WABEDO 11
Survey Site #/Name:
Vegetation Plot:

Last Observed Date: 1999-08-30
First Observed Date: 1999-08-30
Last Survey Date:
Managed Area(s):
Survey Type:
Surveyor(s): Boe, J. S., Mortensen, C,Mortensen, S., Sumption, J.

MN Status: Special Concern
Federal Status:
State Rank: S3
Global Rank: G5
EO Rank: Not ranked

General Description: HUNDREDS OF PLANTS OBSERVED ON BOTH SIDES OF ROAD. ROAD PUT IN 15 YEARS AGO BY COUNTY. SCATTERED RED PINE CANOPY WITH RED OAK & RED MAPLE UNDERSTORY. ASSOC SPP: CLINTONIA BOREALE, PYROLA ELLIPTICA, ASTER MACROPHYLLUS, MAIANTHEMUM CANADENSE, & DIERVILLA LONICERA. AT YMCA CAMP OLSON IN CASS COUNTY.
EO Data:

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The Natural Heritage & Nongame Research Program recently adopted a new database system called Biotics. As a result of this change, the layout and contents of the database reports have been revised. Many of the fields included in the new reports are the same or similar to the previous report fields, however there are several new fields and some of the field definitions have been slightly modified. We recommend that you familiarize yourself with the latest field explanations.

Rare Features Database Reports: An Explanation of Fields

The Rare Features database (Biotics) is part of the Natural Heritage Information System, and is maintained by the Natural Heritage and Nongame Research Program, a unit within the Division of Ecological Services, Minnesota Department of Natural Resources (DNR).

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Field Name: [Full (non-abbreviated) field name, if different]. Further explanation of field.

-E-

Element Name and Occ #: [Element Name and Occurrence Number]. The Element is the name of the rare feature. For plant and animal species records, this field holds the scientific name followed by the common name in parentheses; for all other elements (such as native plant communities, which have no scientific name) it is solely the element name. Native plant community names correspond to Minnesota's Native Plant Community Classification (Version 2.0). The Occurrence Number, in combination with the Element Name, uniquely identifies each record.

EO Data: [Element Occurrence Data]. For species elements, this field contains data collected on the biology of the Element Occurrence* (EO), including the number of individuals, vigor, habitat, soils, associated species, peculiar characteristics, etc. For native plant community elements, this field is a summary text description of the vegetation of the EO, including structure (strata) and composition (dominant/characteristic species), heterogeneity, successional stage/dynamics, any unique aspects of the community or additional noteworthy species (including animals). Note that this is a new field and it has not been filled out for many of the records that were collected prior to conversion to the new database system. Some of the information meeting the field definition may be found in the General Description field.

EO ID#: [Element Occurrence Identification Number]. Unique identifier for each Element Occurrence record.

EO Rank: [Element Occurrence Rank]. An evaluation of the quality and condition of an Element Occurrence (EO) from A (highest) to D (lowest). Represents a comparative evaluation of: 1) quality as determined by representativeness of the occurrence especially as compared to EO specifications and including maturity, size, numbers, etc. 2) condition (how much has the site and the EO itself been damaged or altered from its optimal condition and character). 3) viability (the long-term prospects for continued existence of this occurrence - used in ranking species only). EO Ranks are assigned based on recent fieldwork by knowledgeable individuals.

Extent Known?: A value that indicates whether the full extent of the Element is known (i.e., it has been determined through field survey) at that location. If null, the value has not been determined.

-F-

Federal Status: Status of species under the U.S. Endangered Species Act: LE = endangered; LT = threatened; LE,LT = listed endangered in part of its range, listed threatened in another part of its range; LT,PDL = listed threatened, proposed for delisting; C = candidate for listing. If null or "No Status" the species has no federal status.

First Observed Date: Date that the Element Occurrence was first reported at the site in format YYYY-MM-DD. A year followed by "Pre" indicates that the observed date was sometime prior to the date listed, but the exact date is unknown.

-G-

General Description: General description or word picture of the area where the Element Occurrence (EO) is located (i.e., the physical setting/context surrounding the EO), including a list of adjacent communities. When available, information on surrounding land use may be included. Note that the information tracked in this field is now more narrowly defined than it was in the old database system, and some of the information still in this field more accurately meets the definition of the new EO Data field. We are working to clean up the records so that the information in the two fields corresponds to the current field explanations described herein. Also note that the use of uppercase in sentences in this field is not significant but rather an artifact of transferring data from the old database system to the new system.

Global Rank: The global (i.e., range-wide) assessment of the relative rarity or imperilment of the species or community. Ranges from G1 (critically imperiled due to extreme rarity on a world-wide basis) to G5 (demonstrably secure, though perhaps rare in parts of its range). Global ranks are determined by NatureServe, an international network of natural heritage programs and conservation data centers.

-L-

Last Observed Date: Date that the Element Occurrence was last observed to be extant at the site in format YYYY-MM-DD.

Last Survey Date: Date of the most recent field survey for the Element Occurrence, regardless of whether it was found during the visit. If the field is blank, assume the date is the same as the Last Observed Date.

Location Description: County or Counties in which the Element Occurrence was documented followed by Township, Range, and Section information (not listed in any particular order). Each unique Township, Range, and Section combination is separated by a comma. In some cases, there are too many Township, Range, and Section combinations to list in the field, in which case, the information will be replaced with, "Legal description is too lengthy to fit in allotted space".

-M-

Managed Area(s): Name of the federally, state, locally, or privately managed park, forest, refuge, preserve, etc., containing the occurrence, if any. If this field is blank, the element probably occurs on private land. If "(Statutory Boundary)" occurs after the name of a managed area, the location may be a private inholding within the statutory boundary of a state forest or park.

MN Status: [Minnesota Status]. Legal status of plant and animal species under the Minnesota Endangered Species Law: END = endangered; THR = threatened; SPC = special concern; NON = tracked, but no legal status. Native plant communities, geological features, and colonial waterbird nesting sites do not have any legal status under the Endangered Species Law and are represented by a N/A.

-N-

NPC Classification (v1.5): Native plant community name in Minnesota's Native Vegetation: A Key to Natural Communities (Version 1.5). This earlier classification has been replaced by Minnesota's Native Plant Community Classification (Version 2.0).

-O-

Observed Area: The total area of the Element Occurrence, in acres, which is measured or estimated during fieldwork. If null, the value has not been determined.

Ownership Type: Indicates whether the land on which the Element Occurrence was located was publicly or privately owned; for publicly owned land, the agency with management responsibility is listed, if known.

-S-

Site Name: The name of the site(s) where the Element Occurrence is located. Sites are natural areas of land with boundaries determined and mapped according to biological and ecological considerations.

Survey Site #/Name: The name of the survey site, if applicable, where the Element Occurrence is located. Survey sites are sites that provide a geographic framework for recording and storing data, but their boundaries are not based on biological and ecological considerations. Minnesota County Biological Survey site numbers, if applicable, are also listed in this field.

Survey Type: Information on the type of survey used to collect information on the Element Occurrence.

Surveyor(s): Name(s) of the person(s) that collected survey information on the Element Occurrence.

State Rank: Rank that best characterizes the relative rarity or endangerment of the taxon or plant community in Minnesota. The ranks do not represent a legal status. They are used by the Minnesota Department of Natural Resources to set priorities for research, inventory and conservation planning. The state ranks are updated as inventory information becomes available. S1 = Critically imperiled in Minnesota because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. S2 = Imperiled in Minnesota because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state. S3 = Vulnerable in Minnesota either because rare or uncommon, or found in a restricted range, or because of other factors making it vulnerable to extirpation. S4 = Apparently secure in Minnesota, usually widespread. S5 = Demonstrably secure in Minnesota, essentially ineradicable under present conditions. SH = Of historical occurrence in the state, perhaps having not been verified in the past 20 years, but suspected to be still extant. An element would become SH without the 20-year delay if the only known occurrences in the state were destroyed or if it had been extensively and unsuccessfully looked for. SNR = Rank not yet assessed. SU = Unable to rank. SX = Presumed extinct in Minnesota. SNA = Rank not applicable. S#S# = Range Rank: a numeric range rank (e.g., S2S3) is used to indicate the range of uncertainty about the exact status of the element. S#B, S#N = Used only for migratory animals, whereby B refers to the breeding population of the element in Minnesota and N refers to the non-breeding population of the element in Minnesota.

-V-

Vegetation Plot: Code(s) for any vegetation plot data that have been collected within this Element Occurrence (i.e., either Releve Number or the word "RELEVE" indicates that a releve has been collected).

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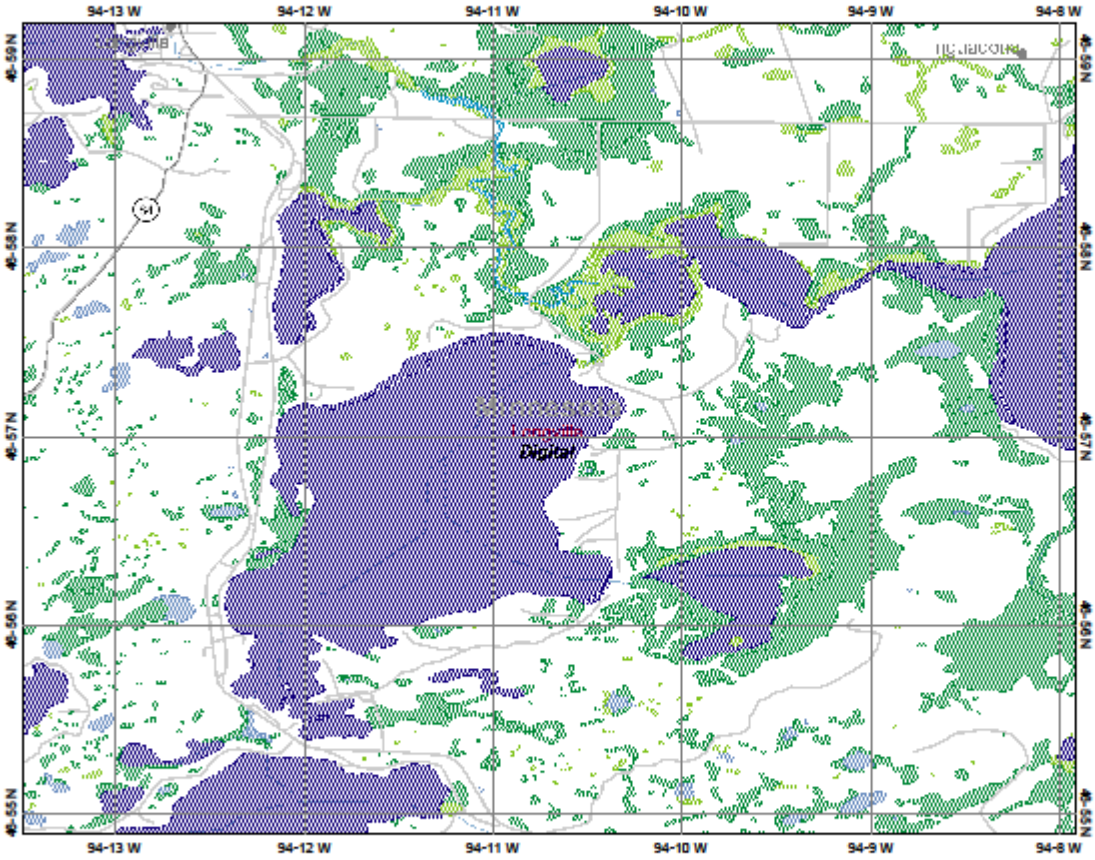
* Element Occurrence – an area of land and/or water in which an Element (i.e., a rare species or community) is, or was, present, and which has practical conservation value for the Element as evidenced by potential continued (or historical) presence and/or regular recurrence at a given location. Specifications for each species determine whether multiple observations should be considered 1 Element Occurrence or 2, based on minimum separation distance and barriers to movement.

Data Security

Locations of some rare features must be treated as sensitive information because widespread knowledge of these locations could result in harm to the rare features. For example, wildflowers such as orchids and economically valuable plants such as ginseng are vulnerable to exploitation by collectors; other species, such as bald eagles, are sensitive to disturbance by observers. For this reason, we prefer that publications not identify the precise locations of vulnerable species. We suggest describing the location only to the nearest section. If this is not acceptable for your purposes, please call and discuss this issue with the Endangered Species Environmental Review Coordinator for the Natural Heritage and Nongame Research Program at (651) 259-5107.

Wabedo Twp Wetlands - NE



Map center: 46° 57' 3" N, 94° 10' 42" W

Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 2
- Lower 48 Wetland P
- Estuarine and Marine D
- Estuarine and Marine W
- Freshwater Emergent W
- Freshwater Forested/Sh
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1

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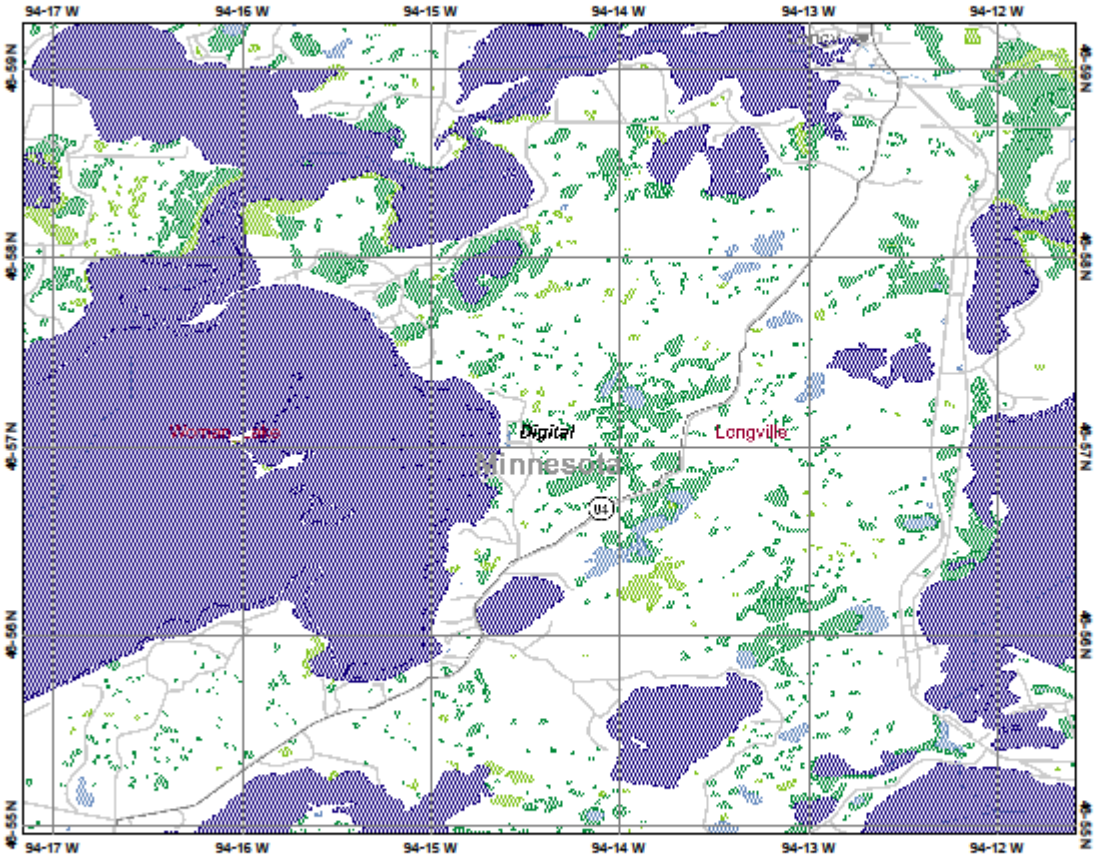
Wabedo Twp Wetlands - NW



Map center: 46° 57' 6" N, 94° 14' 23" W

Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 2
- Lower 48 Wetland P
- Estuarine and Marine D
- Estuarine and Marine W
- Freshwater Emergent W
- Freshwater Forested/Sh
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1

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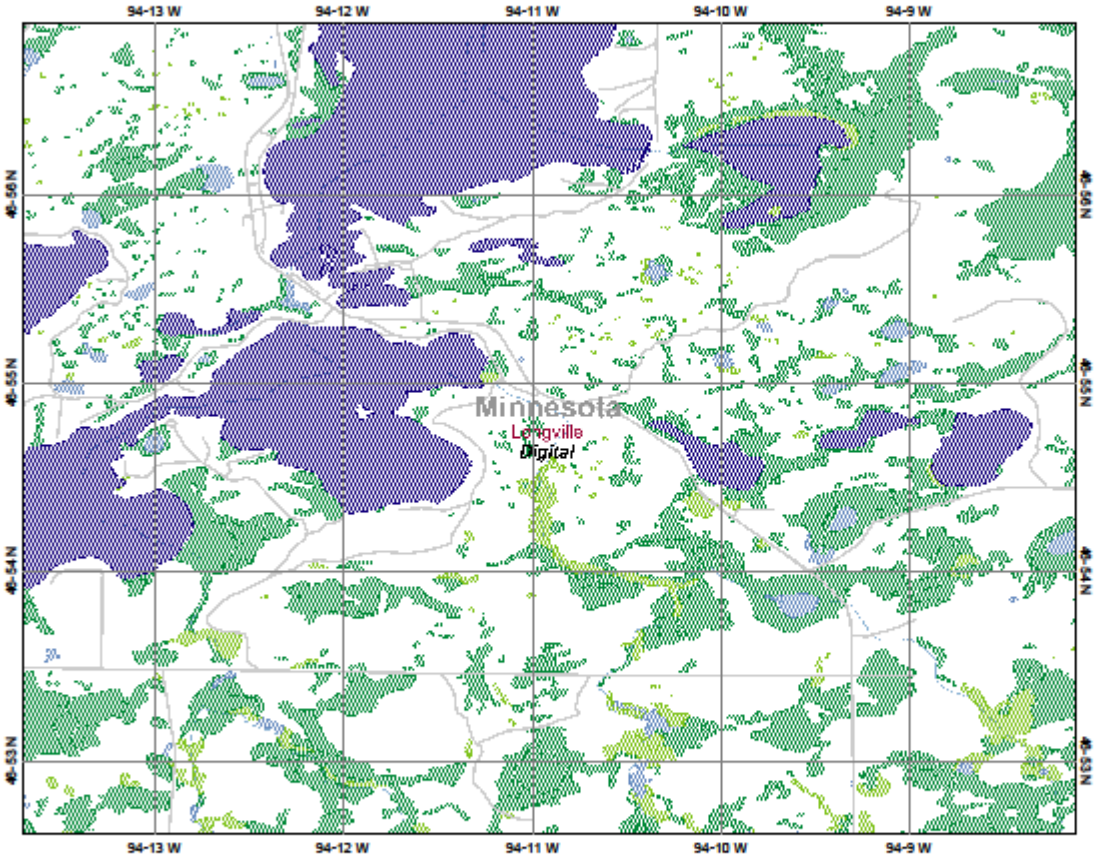
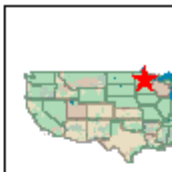
Wabedo Twp Wetlands - SE



Map center: 46° 54' 46" N, 94° 10' 55" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 2
- Lower 48 Wetland P
- Estuarine and Marine D
- Estuarine and Marine W
- Freshwater Emergent W
- Freshwater Forested/Sh
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available
- Not Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1

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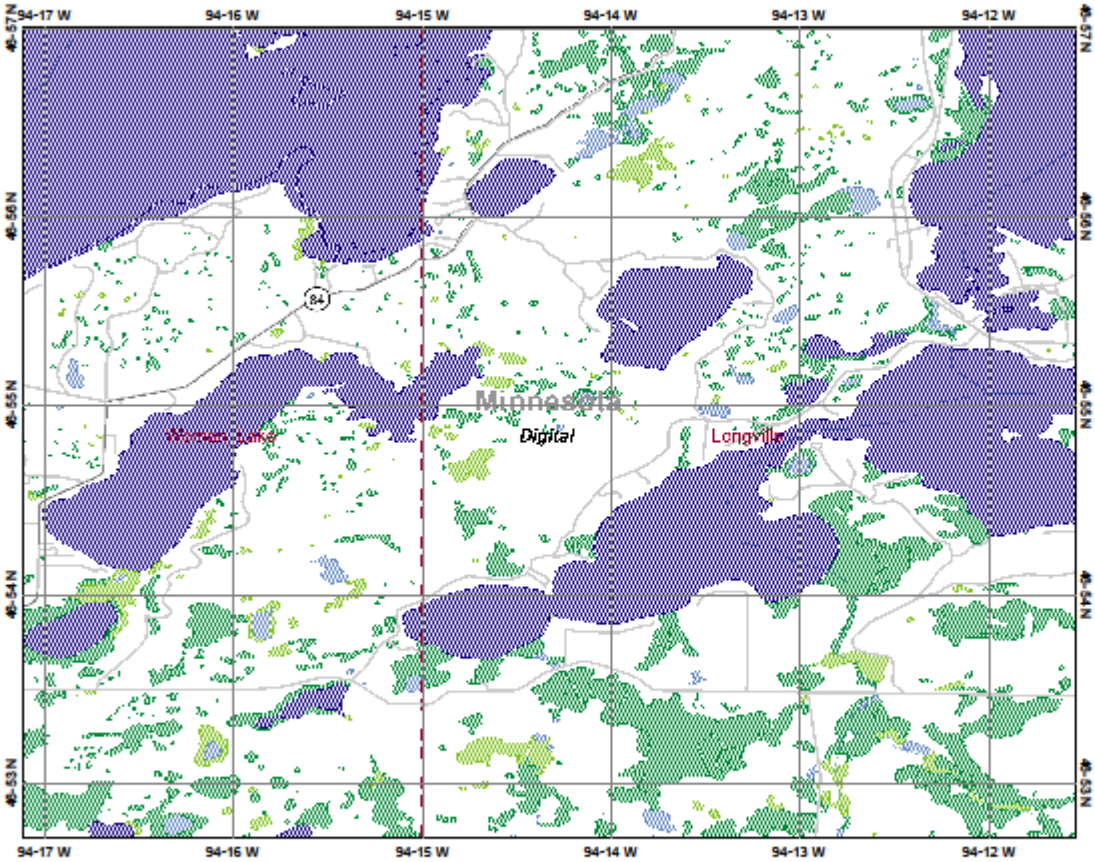
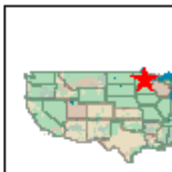
Wabedo Twp Wetlands - SW



Map center: 46° 54' 52" N, 94° 14' 20" W



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 2
- Lower 48 Wetland P
- Estuarine and Marine D
- Estuarine and Marine W
- Freshwater Emergent W
- Freshwater Forested/Sh
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1

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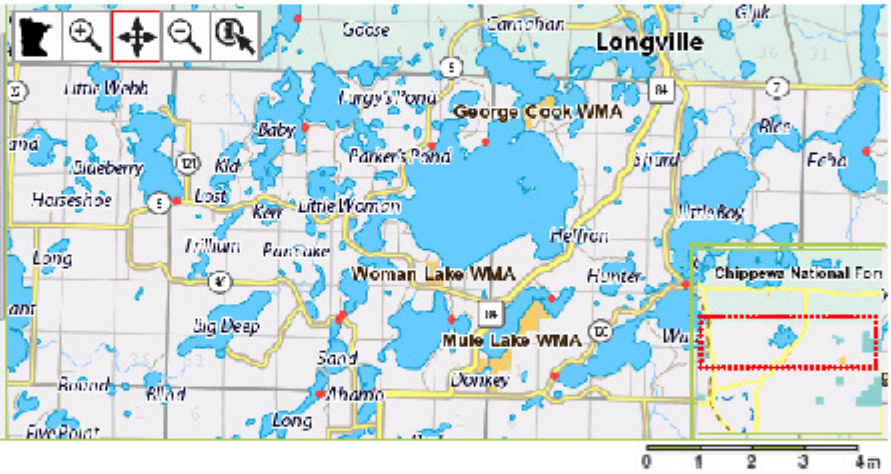
Place: Type: -- any -- go

Clickable layers:

- Lake
- National Forest
- National Wildlife Refuge
- Scientific & Natural Area
- State Canoe Route
- State Forest
- State Park
- State Trail
- Water Access
- Wildlife Management Area

Click the information tool and then click on map features to get detailed information.

Additional layers:



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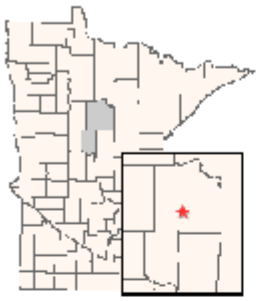
minnesota north star

Qu
1-888-M
651-296-6157
info@dnr.stat

WMA detail report



George Cook WMA

County: Cass
Nearest Town: Longville
Area: 152 ac

Directions: From Longville, go 1 mile south on State Highway 84 then west on Glenmar Drive for 3 miles

Description: For more information on this WMA, contact the Area Wildlife office at 218-732-8452.

Recreation Opportunities:

Hunting options include: deer, bear, small game, forest game birds, and waterfowl.

Wildlife viewing options include: wetland wildlife, and forest wildlife.

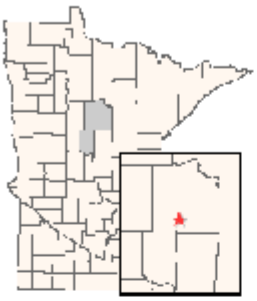
Additional Information:

- interactive covertype map
- recreation compass

New! Make comments on this WMA's facilities or habitat conditions.

At this scale, these WMA boundaries are general, and do not accurately represent the actual legal boundaries. WMA users still need to verify public lands boundaries by observing boundary signs and contacting local DNR Wildlife offices.

WMA detail report



Mule Lake WMA

County: Cass
Nearest Town: Longville
Area: 351 ac

Directions: From Longville, go 7 miles south on State Highway 84

Description: For more information on this WMA, contact the Area Wildlife office at 218-732-8452.

Old natural stands of Red and White Pine.

Recreation Opportunities:

Hunting options include: deer, bear, small game, forest game birds, and waterfowl.

Wildlife viewing options include: wetland wildlife, and forest wildlife.

Additional Information:

- interactive covertype map
- recreation compass

New! Make comments on this WMA's facilities or habitat conditions.

At this scale, these WMA boundaries are general, and do not accurately represent the actual legal boundaries. WMA users still need to verify public lands boundaries by observing boundary signs and contacting local DNR Wildlife offices.