



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32297

Entry Year 2020

Acreage: 202

County Alger

Management Area: Sand River Lake Plain

Revision Date: 2018-08-06

Stand Examiner: Rankin Smith

Legal Description:

T48N-R22W, section 35.

Identified Planning Goals:

Habitat/vegetation and mixed use.

Soil and topography:

Soils range from poorly drained loams to dry course sands, to organic mucks and peats. Topography is mostly level with some slight hills.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment is surrounded by private ownerships. Land use is primarily for forest production and passive recreation.

Unique Natural Features:

The Laughing Whitefish River, a well known trout fishery, flows through the length of this compartment. Wet land habitats are diverse in this tract.

Archeological, Historical, and Cultural Features:

The abandoned town of Tyoga, one of the original white pine logging communities dating back to 1906, is contained in this compartment. The town site with its associated sawmill and logging camp have been developed as a historical interpretation facility. The Tyoga trail with interpretive stations is developed to review the history of the area.

Special Management Designations or Considerations:

The entire compartment is designated Special Conservation Area to preserve its historic values.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: The Laughing Whitefish River flows through most of this compartment and is a designated trout stream with native Brook Trout present and a spring run of steelhead. As much of this compartment is under factor limits for many reasons and no treatments are proposed for this year of entry, Fish Division has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 297 is found within the Sand River Lake Plain Management Area; on a Till-floored Lake Plain in northeastern Marquette County. The dominant Natural Communities are mesic northern forest and poor conifer swamps. Major forest cover types include Northern Hardwoods, Aspen, and Hemlock. Wildlife species considerations in the Sand River Lake Plain Man include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource. Along with maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Wildlife management issues in the management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American marten, blackburnian warbler, red-shouldered hawk, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located less than two miles to the southwest. There may be some sand potential within the compartment, but much of the area is covered by wetlands, which could inhibit any surface mining. Historically, Jacobsville Sandstone was quarried in this part of the state for building stone. However, there is no longer a significant market for the stone. There is no known metallic mineral potential in this area, and there is no history of mineral leasing. There is no potential for economical oil and gas production in the UP.

Vehicle Access:

Vehicle access is good to this compartment but, limited internally.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Tyoga Trail, a historical interpretation pathway, is located here. A rustic boat launch is maintained for access to the river and Lake Superior.

Fire Protection:

Mostly non risk forest types.

Additional Compartment Information:

Tyoga trail is maintained by private interests.

The following reports from the Inventory are attached:

Total Acres by Cover Type and Age Class

Cover Type by Harvest Method

Proposed Treatments – No Limiting Factors

Proposed Treatments – With Limiting Factors

Stand Details (Forested and Nonforested)

Dedicated and Proposed Special Conservation Areas

Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers

Proposed treatments

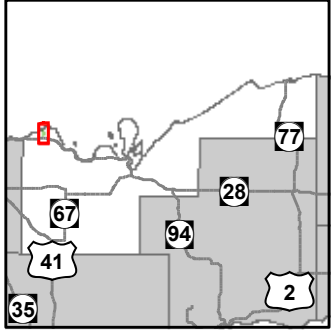
Site condition boundaries

Details on the road access system

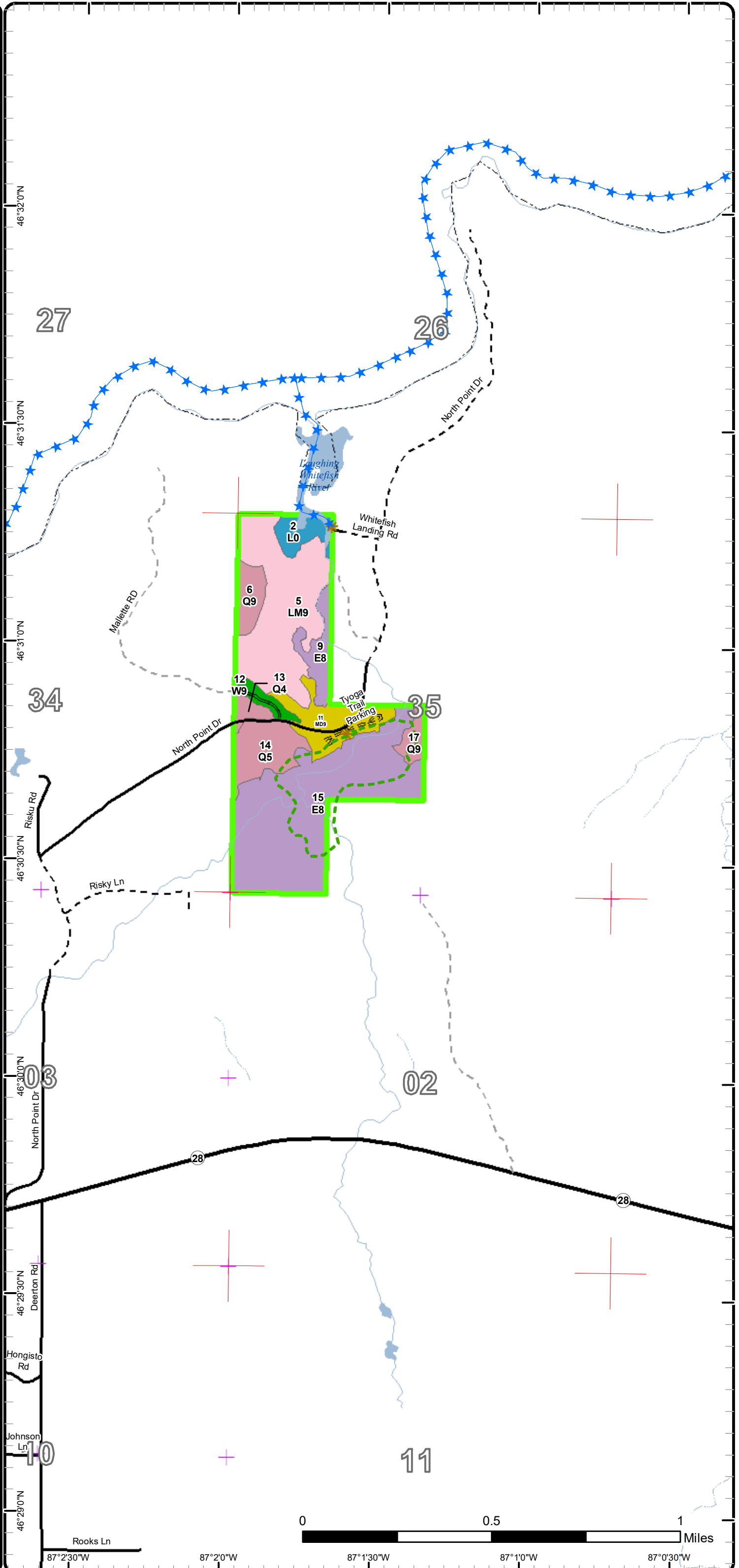
Cover Type & Treatments Map

Compartment: 297
T48N, R22W, Sec. 35

County: Alger
Unit: Gwinn
Mgmt Area: Sand River Lake Plain
YOE: 2020
Acres: 202 GIS Calculated
Examiner: Rankin Smith
Map Revised: 8/22/2018
Map Phase: Web-Post



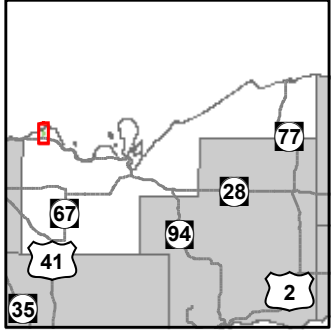
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ★ Designated Water Trails
- Designated Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ★ Trailhead
- Compartment Boundary
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 629 - Mixed non-forested wetland
- Lakes



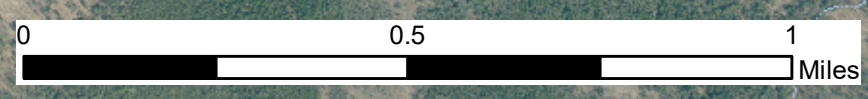
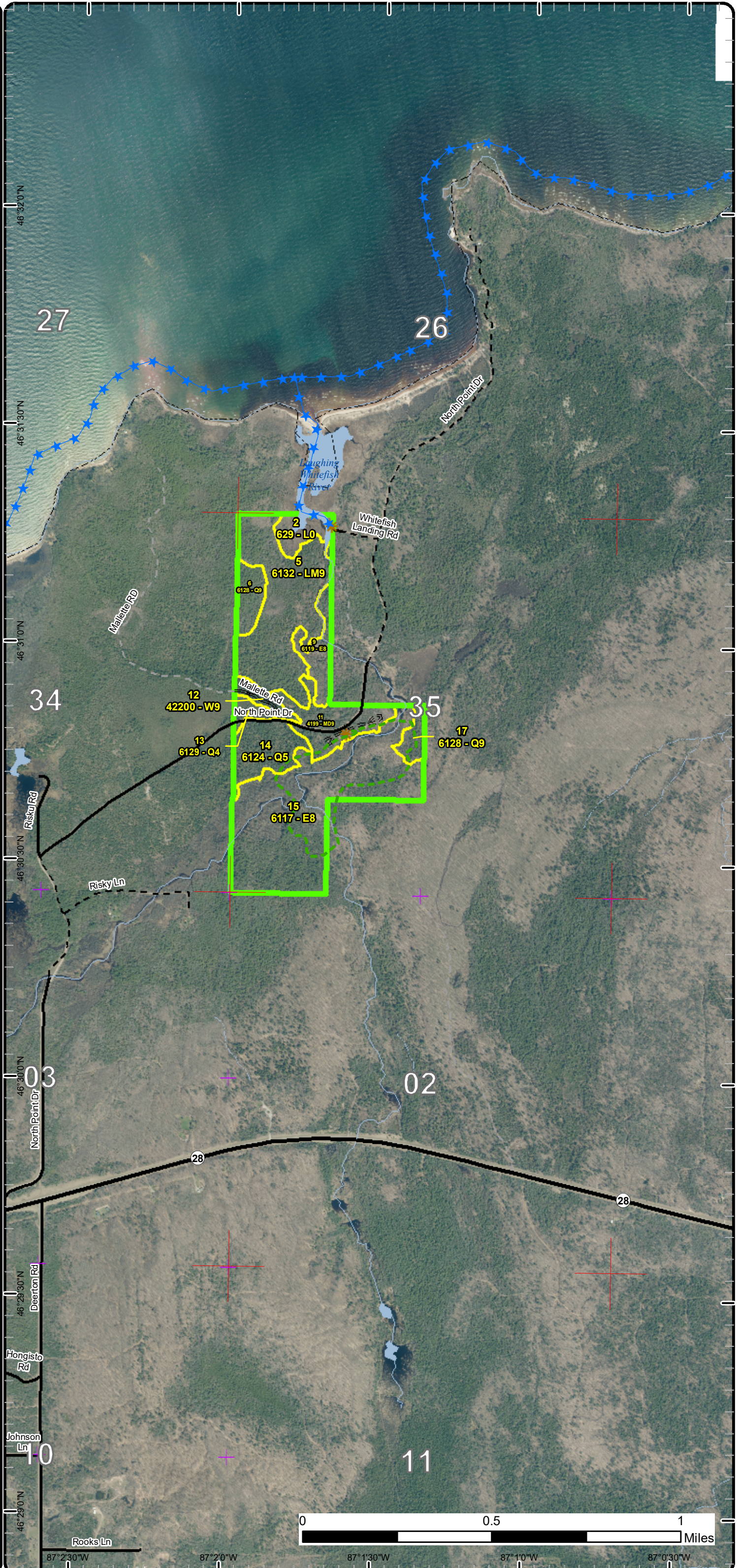
Stand Boundary Map

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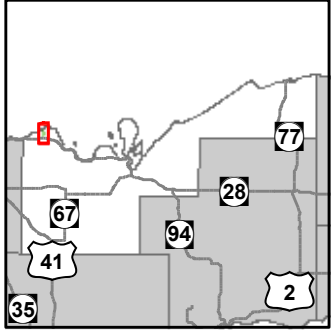


87°2'30"W 87°2'0"W 87°1'30"W 87°1'0"W 87°0'30"W

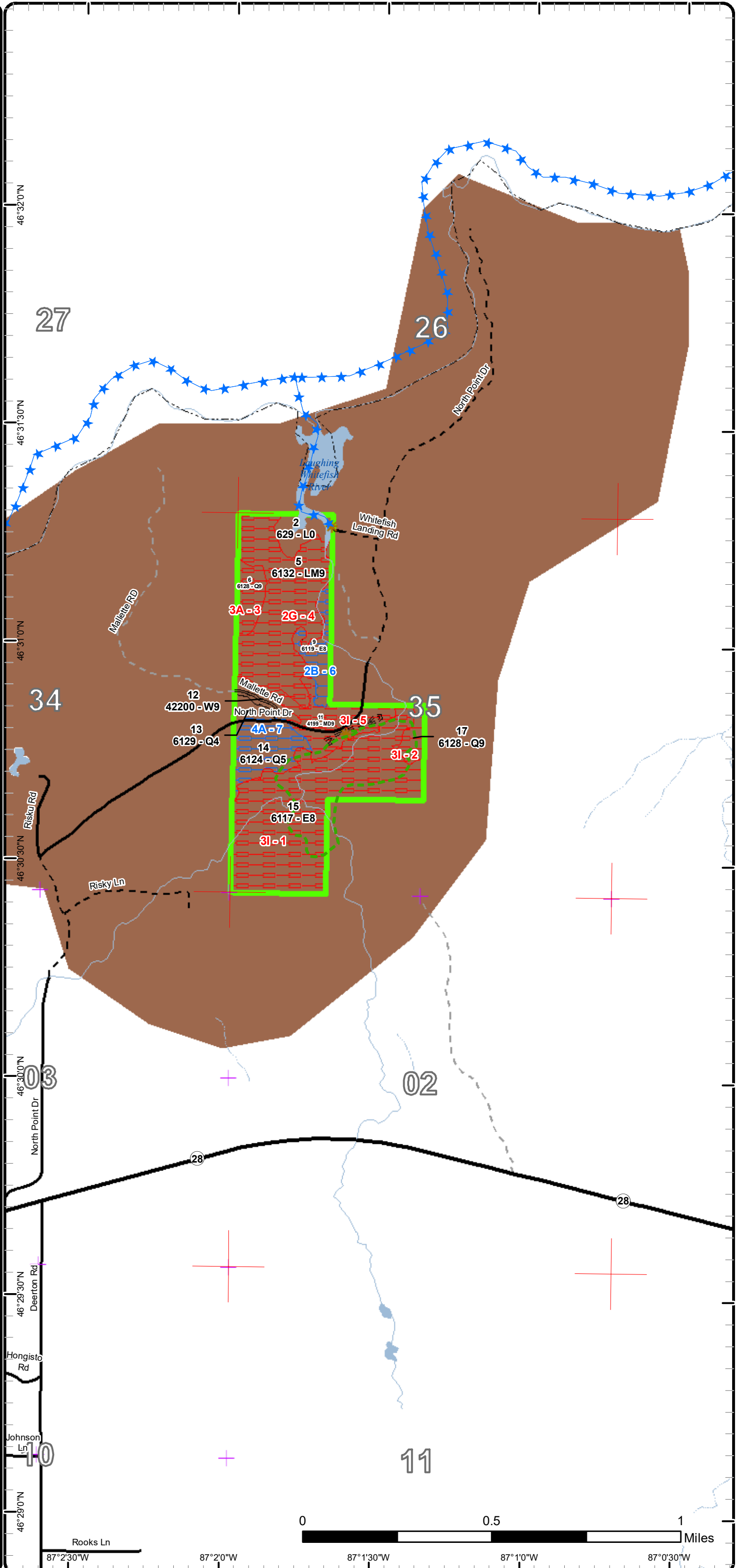
Special Conservation Areas & Site Conditions Map

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T48N, R22W, Sec. 35

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- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ★ Trailhead
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3I: Historical / archeological (add locked comments)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 297 Year of Entry 2020

Rankin Smith : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Lowland Conifers	0	0	0	0	0	0	0	0	0	16	4	0	0	0	0	0	0	12	32
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	80	90
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	50
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Total	8	0	0	0	0	0	0	0	0	16	4	18	0	4	60	0	0	92	202



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 297

Total Compartment Acres: 202

Commercial Harvest -
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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#Type!

Habitat Cut:PrescriptionSpecs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date:

**Total Treatment
Acreage Proposed: 0.0**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rankin Smith : Examiner

Compartment: 297
Year of Entry: 2020

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

	Availability for Management			Dominant Site Condition	Dominant Site Conditions				
	Acres	Available	With Condition		2B	4A	2G	3A	3I
32	3	16	12	Lowland Conifers		16		8	5
89	0	9	80	Lowland Deciduous	9				80
50	0	0	50	Lowland Mixed Forest			50		
8	8	0	0	Lowland Shrub					
18	0	0	18	Mixed Upland Deciduous					18
4	4	0	0	White Pine					
202	16	26	160	Total Forested Acres	9	16	50	8	102
	8%	13%	79%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3I: Historical / archeological (add locked comments)	80	3D: Recreational / Scenic values	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments:							
2	Unavailable	3I: Historical / archeological (add locked comments)	5	2G: Too wet (sensitive soils, does not include access issues)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rankin Smith : Examiner

Compartment: 297
Year of Entry: 2020

4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3I: Historical / archeological (add locked comments)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	4A: No Markets Available for these Forest Products	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 297
Year of Entry: 2020

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
5	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	50.0	130	111-140	Part of a winter deer yard complex. Stocking ranges. Includes hemlock areas and small patch cuts (less than 1 acre) that were cut to feed deer. Cedar pockets with mix of lowland hardwoods.
6	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.8	150	141-170	Low, wet area with potential old-growth. Pockets of hemlock and cedar interspersed with mixed hardwoods. Trace amounts of yellow birch.
9	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	9.5	130	81-110	River influence zone and contains potential old growth trees. Variable stocking and quality. Contains some lowland hardwood inclusions.
11	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.8	100	81-110	Stand contains old Tioga logging camp town site (historic value). Once contained a state forest campground. The historic Tioga interpretive trail head, parking lot, and trail are in this area.
12	42200 - Natural White Pine	Sawtimber Well	4.4	120	111-140	Part of a larger winter deer yard complex. 6-7 stick White Pine.
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	3.5	90	1-50	Part of a winter deer yard complex. Low stocking of some white pine, black spruce and tamarack. Wet bog.
14	6124 - Lowland Spruce-Fir	Poletimber Medium	16.0	80	81-110	Part of a winter deer yard complex. Small areas where the water table is perched. Variable stocking.
15	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	79.9	120	111-140	River influence zone. Part of a larger winter deer yard complex. Stand will be at high risk for the emerald ash borer. Stocking and size classes range. Part of the old Tyoga town site. Numerous small creeks flowing into the Laughing Whitefish River.
17	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.6	150	141-170	Potential old growth Hemlock and Cedar. Tyoga trail runs through this stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	629 - Mixed non-forested wetland	8.1	No	Contains the Laughing Whitefish river and associated sloughs. Also contains boat ramp for Laughing Whitefish river.