



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32232

Entry Year 2024

Acreage: 1,121

County Marquette

Management Area: Chain Lakes Moraine

Stand Examiner: Rick Hill

Legal Description:

T45N-R28W sections 6,7 and T46N-28W Section 31.

Identified Planning Goals:

Vegetative management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses

Soil and topography:

Terrain ranges from level swamps and wetland drainages to rolling or moderate hilly uplands. Large boulders are common throughout compartment. Major soil series are: Rubicon – Keweenaw Complex, Rubicon Sand, Carbondale/Tawas and Histosols/Aquents (ponded).

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

The compartment is comprised of two blocks of state land. The north block borders state land to the west, a small private parcel and state land to the east, and small private parcels to the south. A small addition of state land was added to this compartment during inventory period. It is located in the SE of the SE of section 31. The south block is bordered by small private parcels to the north, state land to the east, and larger private holdings to south and west. Several camps and a year-around residence are located on Penglase Lake and Round Lake in the south portion of Section 6. Hunting and timber harvests are primary uses of the private parcels.

Unique Natural Features:

There are no known within the compartment.

Archeological, Historical, and Cultural Features:

There are no known sites within the compartment.

Special Management Designations or Considerations:

A riparian zone exists around the headwaters of Flatrock Creek

Watershed and Fisheries Considerations:

This compartment is comprised of a northern and southern region located in the headwaters of the West Branch Escanaba River watershed. The northern region of this compartment borders Sagola Lake, which serves as a headwater tributary to Flat Rock Creek. The southern region of this compartment contains several small waterbodies and an unnamed stream that serves as a tributary to Flat Rock Creek.

Flat Rock Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 61.3 °F (cold stream). A 300' buffer is recommended for Flat Rock Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

100' buffers are recommended for the Sagola Lakes and any unnamed waterbodies to protect shoreland resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 232 is found within the Chain Lakes Moraine Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 232 Sections 6-8, T45N-R28W and Section 31, T46N-R28W, Marquette County. No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel pits occur in the area, but there appears to be some good potential for sand & gravel within the compartment. Former iron mines occur more than five miles northwest, but there is no evidence from available aeromagnetic survey data that iron-bearing formations underlie the compartment. There is no known potential for other metallic minerals beneath the compartment, but detailed geologic mapping is lacking, and no known ground-based exploration has occurred. No recent State mineral leasing activity has occurred in the area.

Vehicle Access:

The primary access route for the compartment is the seasonal County Road CMM, which originates off of Perch Lake Road (Co Rd CF), a paved county road. The north block of state land in this compartment has a nice network of DNR forest roads providing access. The south block of state land is accessed by a DNR forest road to the west of the compartment or via a restricted management easement extending from just east of Round Lake down to the south. This easement is gated by the private landowner. The road network within the south block is not as expansive as up north. The old ELF Line corridor provides access to this south block from the west.

Survey Needs:

Any needed surveys will be requested after the compartment review.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment. Hunting, fishing and berry picking are the primary uses of the area.

Fire Protection:

This area presents a moderate fire risk with a mix of pine, aspen and oak on dry soils. there is also an area of low ground with black spruce and other lowland species that present a moderate fire risk. Road access is good to most of the area with some structure protection present due to camps in the area.

Additional Compartment Information:

The following reports from the Inventory are attached:

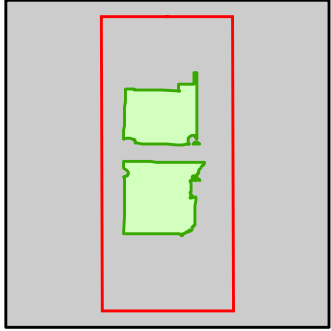
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

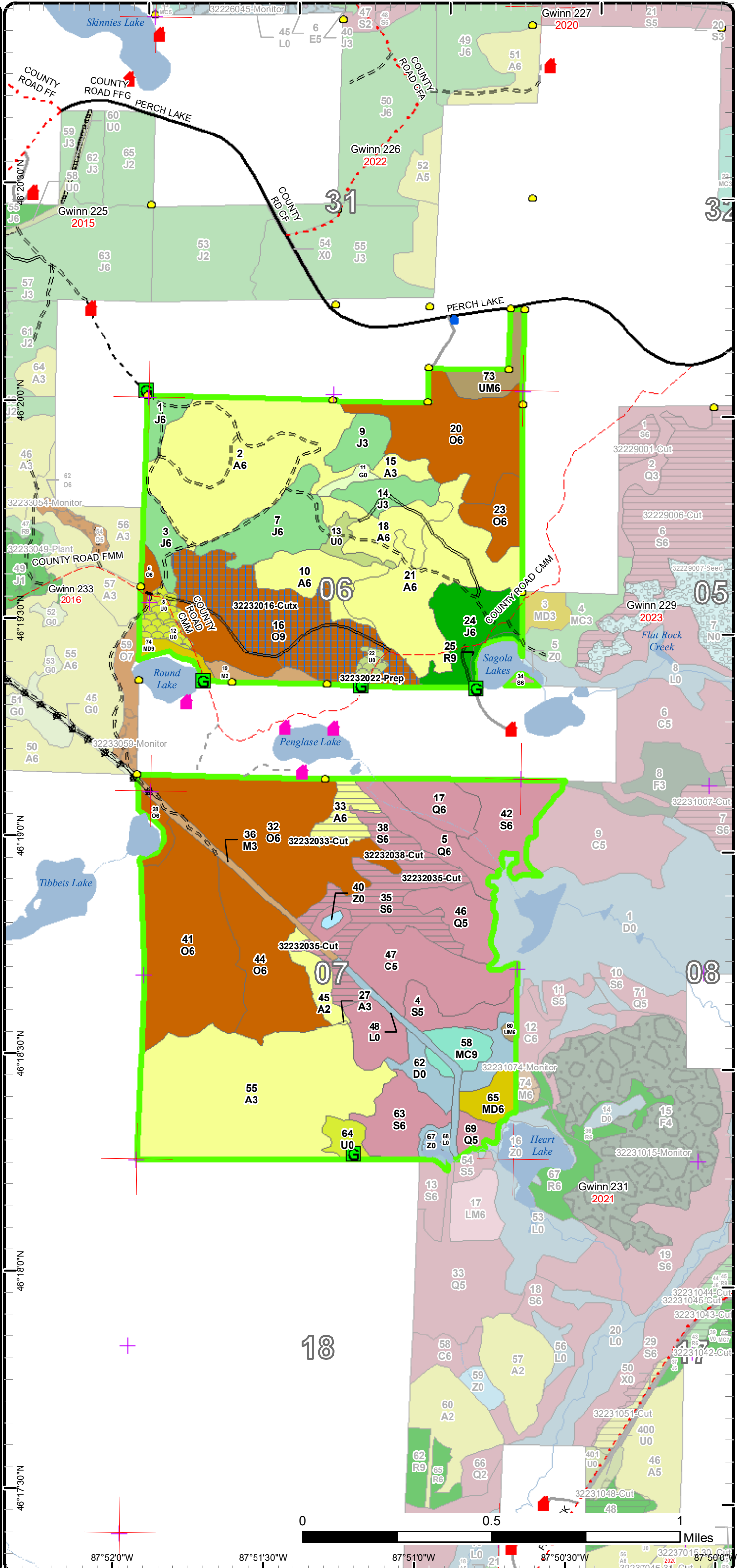
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 232
 T45N, R28W, Sec. 06, 07
 T46N, R28W Sec. 31
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 1121.2 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2022
 Map Phase: Web-Post

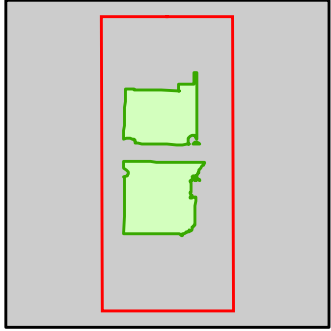


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Structure, Seasonal Dwelling
- G Gate
- Tower
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

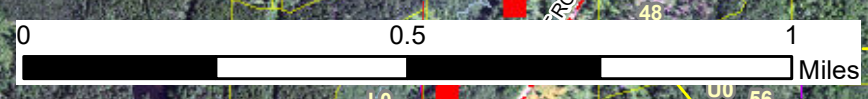
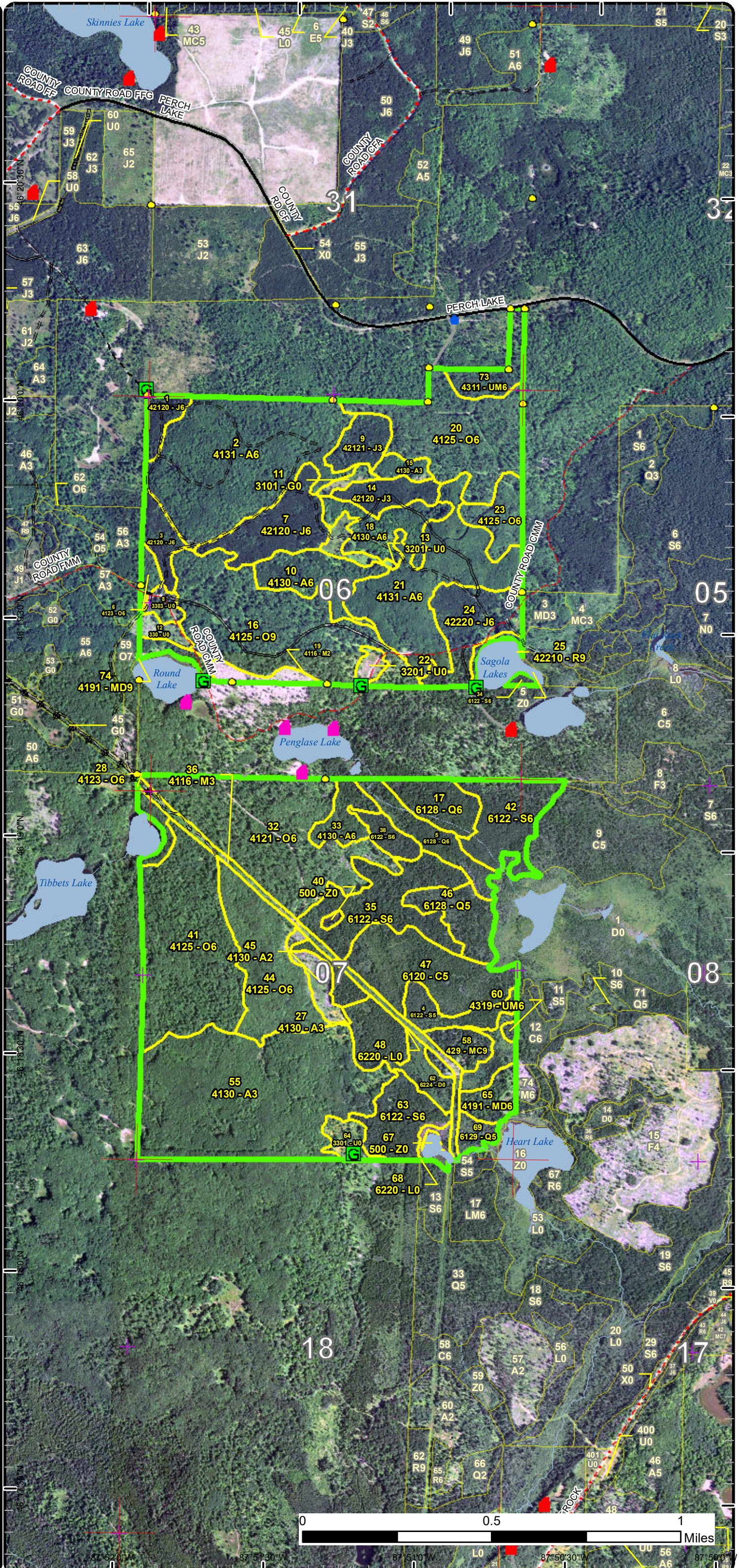


Stand Boundary Map

Compartment: 232
 T45N, R28W, Sec. 06, 07
 T46N, R28W Sec. 31
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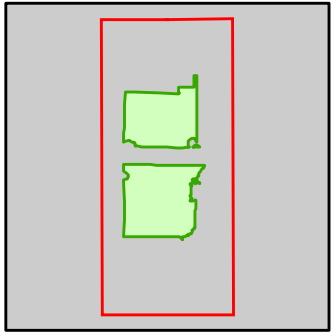
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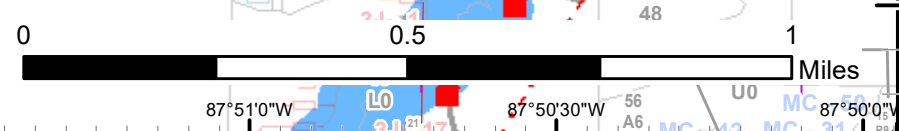
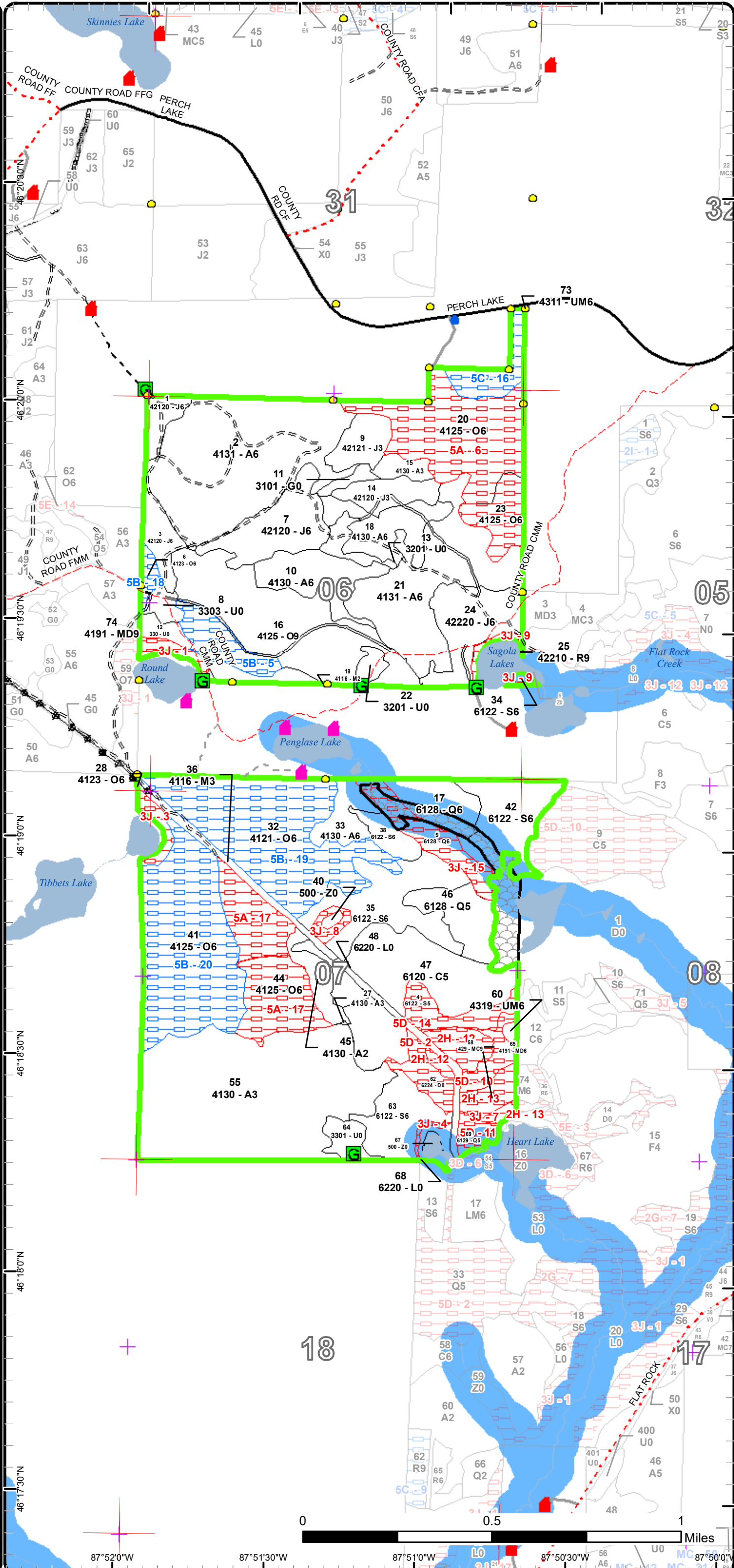
87°52'0"W 87°51'30"W 87°51'0"W 87°50'30"W 87°50'0"W
 L0 U0 56 A6

Special Conservation Areas

Compartment: 232
 T45N, R28W, Sec. 06, 07
 T46N, R28W Sec. 31
 County: Marquette
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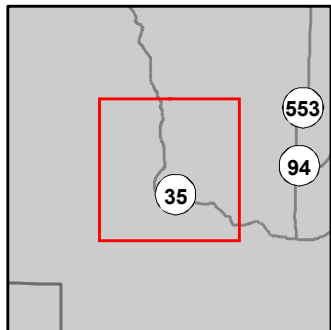


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- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Structure, Seasonal Dwelling
- Gate
- Tower
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA Removal
- High Priority Trout Stream Buffer

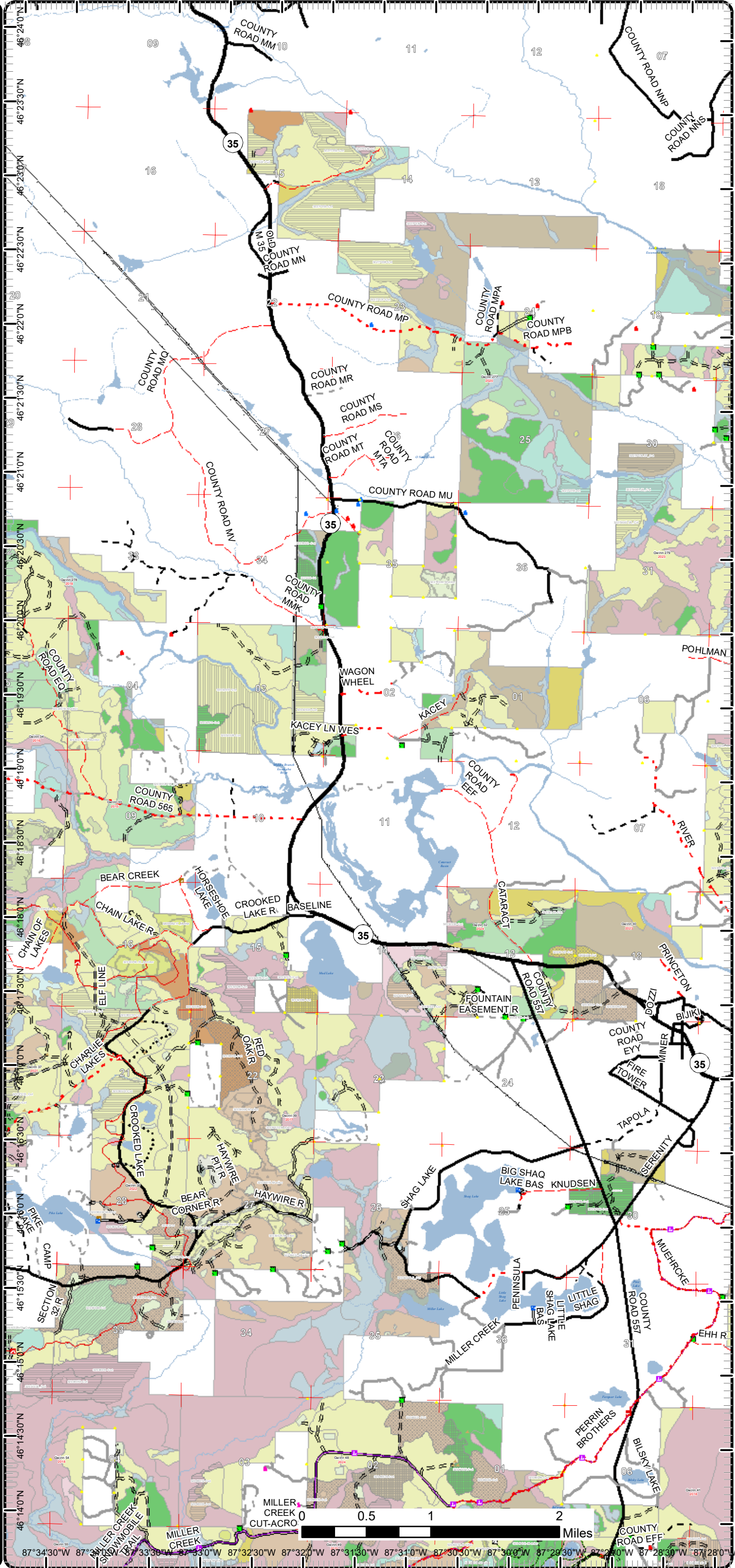


Overview Map

Compartment: 232
 T46N,R25W, Sec. 01-03, 13-15
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 1121.2 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2022
 Map Phase: Web-Post



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- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- House
- Berms
- Gate
- Campground
- City
- Pipeline
- Powerline
- Airports



87°34'30"W 87°33'30"W 87°32'30"W 87°31'30"W 87°30'30"W 87°29'30"W 87°28'30"W 87°27'30"W

Report 1 – Total Acres by Cover Type and Age Class



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
Aspen	0	9	0	0	229	91	11	0	0	0	0	0	0	0	0	0	0	0	340
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	55
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	0	0	23	70	0	0	0	0	0	0	0	0	0	0	0	0	93
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	33	22	0	0	0	0	0	0	0	0	0	55
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	0	0	0	0	0	0	21	28	64	0	0	0	0	0	0	0	0	0	113
Mixed Upland Deciduous	0	0	0	0	0	0	0	5	0	10	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	6	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Oak	0	0	0	0	0	0	0	0	349	4	0	0	0	0	0	0	0	0	353
Red Pine	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	0	0	12	0	1	0	0	0	0	0	0	0	0	13
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	59	15	0	8	252	161	11	21	78	435	25	3	0	55	0	0	0	0	1123



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 232
Total Compartment Acres: 1,121

Commercial Harvest - 124
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	11	0	0	0	0	0	0	0	0	11
Lowland Spruce/Fir	48	0	0	0	0	0	0	0	0	48
Oak	0	0	0	65	0	0	0	0	0	65
Total	59	0	0	65	0	0	0	0	0	124

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	124	13	0	0	0	0	0	0	0	137
Next Step	0	144	78	40	65	0	411	0	0	738
Total	124	156	78	40	65	0	411	0	0	875



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

8	32232008- Prep	4.4	3303 - Mixed Low Density Trees	Nonstocked				SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench and plant red pine hopefully oak will sprout as well.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Sink with 22, 12, 19, 16</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>												
12	32232012- Prep	4.5	330 - Low-Density Trees	Nonstocked	0			SitePrep	Trenching	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Trench and plant red pine</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Sink with 8, 22, 19, 16</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>												
16	32232016- Cutx	65.4	4125 - Black, N. Pin Oak	Sawtimber Well	87	81-110		Harvest	Seed Tree with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all trees leaving 10 SQ Ft of single stem oak or a few clumps of oak (under 25% crown cover) to leave for wildlife mast and seed. Also leave only red pine, white pine. Consult with forest health at time of sale prep to apply best oak wilt mitigation measures appropriate at that time.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Natural Regen (Re-Inventory); Burn, Slash;</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Use a stump height spec in case regen fails. Check oak stump sprouts one year after the harvest. If regen fails trench and plant red pine and oak do not spray as the goal will be a mixed oak and pine stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>												
22	32232022- Prep	3.8	3201 - Sweet Fern	Nonstocked				SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench at 8 foot spacing.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine and oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Sink with 8, 12, 19, 16</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>												

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
33 32232033-Cut	11.0	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over two inches in diameter. Leave only red pine, white pine, cedar, hemlock and oak within the harvest area. Area retention will be used along stand 5 this retention area will include sample of the stand with birch and forked big tooth aspen present.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce, fir, oak, maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
35 32232035-Cut	40.2	6122 - Black Spruce	Poletimber Well	81	Unspec ified	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees above 2 inches in diameter, leaving only cedar, white pine, and any oak or hemlock that may be present. Focus retention in areas of high cedar abundance. Insure retention will have mature spruce and tamarack present. Cut on frozen ground to prevent root damage in cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> spruce, fir, aspen, BAM, birch, maple, other conifer, other hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
38 32232038-Cut	7.4	6122 - Black Spruce	Poletimber Well	87	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches, leaving only pine and cedar. Retention area will be on the border with stand 5 it will include mature black spruce and tamarack.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> spruce, fir, cedar, aspen, bam, birch</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 136.7
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 232
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available	5B	5C	2H	3J	5A	5D	
339	339	0	0	Aspen						
55	55	0	0	Cedar						
3	3	0	0	Herbaceous Openland						
93	93	0	0	Jack Pine			0			
16	16	0	0	Low-Density Trees						
55	33	0	22	Lowland Conifers			17		5	
11	11	0	0	Lowland Shrub						
113	95	0	18	Lowland Spruce/Fir			6		12	
14	1	0	13	Mixed Upland Deciduous			8	6		
14	14	0	0	Northern Hardwood						
353	66	172	115	Oak	172		5	110		
3	0	0	3	Red Pine			3			
17	0	0	17	Treed Bog					17	
10	0	0	10	Upland Conifers			10			
13	1	12	0	Upland Mixed Forest		12				
9	9	0	0	Upland Shrub						
3	3	0	0	Water						
1,121	739	184	198	Total Forested Acres	172	12	18	35	110	35
	66%	16%	18%	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	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Buffer along Round Lake.</p>							
2	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 232
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5A: Not able to obtain desirable regeneration	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments: left for mast/ wildlife look at cutting next YOE							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 232
Year of Entry: 2024

10	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5D: Unproductive Forest Land	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 232
Year of Entry: 2024

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5A: Not able to obtain desirable regeneration	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only cutting 1/2 of the stand per wildlife request at pre-review							
18	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	76	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
----------	--------------	-------------	----------------	-------

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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	42120 - Planted Jack Pine	Poletimber Well	7.3	45		N/A	Fully stocked. White birch saplings and red pine sawtimber found.																																														
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2	4131 - Aspen, Oak	Poletimber Well	90.7	46	81-110	N/A	Red pine and white pine saplings found. White pine and red pine poletimber present.																																														
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3	42120 - Planted Jack Pine	Poletimber Well	9.7	45	1-50	N/A	Infrequent red pine sawtimber.																																														
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4	6122 - Black Spruce	Poletimber Medium	12.1	84	Unspecified	N/A	A fair amount of mistletoe present stand is of poor quality and questionable operability.																																														
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5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.7	81	Unspecified	N/A																																															
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6	4123 - Red Oak	Poletimber Well	3.8	97	51-80	N/A	Lots of understory aspen from adjacent stands																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
7	42120 - Planted Jack Pine	Poletimber Well	26.4	45	51-80	N/A	Areas where more jack pine saplings than poles in overstory. Fully stocked. Patches where stocking of overstory oak and red pine are heavier. Red oak, trembling aspen and white birch poles present. White pine and white birch saplings found.																																														
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8	3303 - Mixed Low Density Trees	Nonstocked	4.4			No	Stand mostly open. Bracken ferns with patches of blueberry. Red maple, jack pine and bigtooth aspen saplings present. Red maple poles and red oak sawlogs found.																																														
9	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	11.4	30	1-50	N/A	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>30</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>4</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>6</td> <td>Log/Pole</td> <td>16</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	10	Sapling/Pole	4		Jack Pine	70	Sapling/Pole	4	30	Red Maple	10	Sapling/Pole	2		Red Oak	4	Pole	8		Red Pine	6	Log/Pole	16		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	5 - 10 feet	Sapling	Red Oak	Low	< 5 feet	Sapling	Red Pine	Low	10 - 20 feet	Sapling
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10	4130 - Aspen	Poletimber Well	20.6	34		N/A	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>8</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>82</td> <td>Pole/Sapling</td> <td>5</td> <td>34</td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	8	Sapling	3		Bigtooth Aspen	82	Pole/Sapling	5	34	Red Oak	10	Sapling/Pole	4		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	Sapling																		
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11	3101 - Poverty Grass, Cladonia	Nonstocked	2.9			No	Infrequent black cherry saplings, jack pine poletimber and red pine sawtimber. Stand mainly open. Long, south-facing slope. 50% sedge, rest split between sweetfern, bracken and blueberry.																																														
12	330 - Low-Density Trees	Nonstocked	4.5	0		4319 - Mixed Upland Forest	Stand was cut in the fall of 2014. TS#106-14. Aspen and maple should regenerate well within the stand.																																														
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13	3201 - Sweet Fern	Nonstocked	5.4			No	Sedge and bracken found in patches. Not much blueberry. Stand still mainly open in center, with edges pushing in. Red maple saplings are predominant tree type. Jack pine, red pine, black cherry and oak saplings present.																																														
14	42120 - Planted Jack Pine	Sapling Well	11.6	30	Unspecified	N/A	Heavy snow and ice damage is present in the stand. I is best to give the stand time before any actions are taken.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
15	4130 - Aspen	Sapling Well	5.1	30	Unspecified	N/A	Fully stocked, nice aspen stems. No aspen poles yet. Red pine and white spruce saplings present.																																										
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16	4125 - Black, N. Pin Oak	Sawtimber Well	79.9	87	81-110	N/A	Pockets of heavy bigtooth aspen sapling stocking. Residual oak overstory varies from 0% to 75% canopy cover. Red pine found in overstory.																																										
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17	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.5	75	Unspecified	N/A																																											
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18	4130 - Aspen	Poletimber Well	20.8	34	Unspecified	N/A	Some small openings. Small groves of red oak poles/sawlogs. Some pure inclusions of trembling aspen to east side. Jack pine and black cherry saplings present.																																										
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19	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	6.1	7	Immature	N/A	Stand was cut in November of 2015. TS# 106-14. Scattered mature oak was left within the stand. A fair amount of oak was also cut, therefore, stand should be monitored to see how the oak regenerates.																																										
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20	4125 - Black, N. Pin Oak	Poletimber Well	53.6	88	51-80	N/A	Some scattered open areas of A3 from past cutting. White pine poles and white pine saplings present.																																										
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21	4131 - Aspen, Oak	Poletimber Well	59.6	39	51-80	N/A	Heavy stocking. Pockets with heavier oak poles. White pine and red pine saplings present.																																																		
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23	4125 - Black, N. Pin Oak	Poletimber Well	14.0	88	81-110	N/A	Stand is on a hilltop, not much aspen present, some oak and pine regen is present within the understory.																																																		
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24	42220 - Natural Jack Pine	Poletimber Well	26.6	42		N/A	Good stocking. White pine poles present. Found bigtooth aspen and white pine saplings. Large red pine sawtimber near Sagola Lake.																																																		
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25	42210 - Natural Red Pine	Sawtimber Well	2.7	102	81-110	N/A	Stand borders Sagola Lake. Spruce and cedar strip along lakeshore. White pine sawtimber present. Red pine and fir saplings present.																																																		
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27	4130 - Aspen	Sapling Well	0.1	33	81-110	N/A	Small groves of red oak to southwest. White pine and red pine saplings present.																																																		
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28	4123 - Red Oak	Poletimber Well	5.0	82	81-110	N/A	Site slopes down to pond. Stand is buffer for pond. Patches of heavier stocked white pine and red pine saplings.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
32	4121 - Oak, Aspen	Poletimber Well	78.0	87	51-80	N/A	Stand harvested under sale number 108-04, at the time of harvest there was 49 SQ feet of oak left in the stand. Post harvest stand was typed as oak, stocking of oak varies widely from scattered overstory trees to full canopy.																																																	
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33	4130 - Aspen	Poletimber Well	11.0	52	Unspecified	N/A																																																		
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34	6122 - Black Spruce	Poletimber Well	1.3	85		N/A																																																		
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35	6122 - Black Spruce	Poletimber Well	43.4	81	Unspecified	N/A	Stocking ages and species composition vary across stand. this stand has enough volume to support a harvest.																																																	
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36	4116 - Mixed N. Hardwood - Aspen	Sapling Well	8.1	28	1-50	N/A	Old ELF line. Some scattered open areas. Scattered red pine, white pine and fir saplings present.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
38	6122 - Black Spruce	Poletimber Well	7.4	87	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		2	Pole	6		Black Spruce	Low	>20 feet	Sapling
Black Spruce		93	Pole	6	87	Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine		5	Log/XLog	18					
40	500 - Water	Nonstocked	1.1				No		
41	4125 - Black, N. Pin Oak	Poletimber Well	75.5	87	51-80	N/A	Areas with little to no oak overstory. Oak seedlings found.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Pole	8		White Pine	Low	10 - 20 feet	Sapling
Red Pine		10	XLog/Log	22		Red Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen		25	Sapling	2	24	Red Maple	Medium	>20 feet	Sapling
Red Oak		8	Log/Pole	14					
Northern Pin Oak		52	Log/Pole	10	87				
42	6122 - Black Spruce	Poletimber Well	27.6	75	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		90	Pole	7	75	Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar		5	Log/Pole	12					
44	4125 - Black, N. Pin Oak	Poletimber Well	42.8	82	81-110	N/A	Scattered red pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		15	Log/Pole	12		White Pine	Low	10 - 20 feet	Sapling
Northern Pin Oak		65	Pole/Log	9	82	Red Oak	Low	< 5 feet	Seeding
Bigtooth Aspen		10	Pole/Log	9		Red Pine	Medium	10 - 20 feet	Sapling
Paper Birch		10	Pole	6		Red Maple	Low	>20 feet	Sapling
45	4130 - Aspen	Sapling Medium	8.9	6	Immature	N/A	Sale was cut in summer of 2015. TS#106-14. Scattered mature oak, aspen and a few pine within the sale.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		15	Sapling	1					
Balsam Fir		10	Sapling	1					
Northern Pin Oak		15	Sapling	1					
Quaking Aspen		60	Sapling	1	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 17.2 75 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	10	Log/Pole	10	
Northern White Cedar	15	Pole	8	
Black Spruce	40	Pole	8	75
Quaking Aspen	15	Log/Pole	10	
Balsam Poplar	20	Log/Pole	12	

47 6120 - Lowland Cedar Poletimber Medium 54.7 120 201+ N/A Poor quality cedar questionable if it will ever be viable for management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole	8		Tag Alder	High	10 - 20 feet	Tall Shrub
Northern White Cedar	75	Pole	8	120				
Balsam Fir	3	Pole	6					
Paper Birch	2	Pole	8					
Balsam Poplar	5	Sapling	8					

48 6220 - Alder/willow Nonstocked 7.7 No Old ELF line.

55 4130 - Aspen Sapling Well 122.6 33 81-110 N/A Small groves of red oak to southwest. White pine and red pine saplings present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3		Red Maple	Medium	< 5 feet	Seeding
Red Oak	5	Sapling/Pole	4		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	20	Sapling/Pole	4	33				
Bigtooth Aspen	70	Pole/Sapling	5	33				

58 429 - Mixed Upland Conifers Sawtimber Well 10.2 90 81-110 N/A Higher terrain. Patches of F6 and J6. White pine and white birch poletimber found. White pine, red pine and jack pine saplings present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Pole
Paper Birch	2	Pole/Log	10		Black Spruce	Low	>20 feet	Pole
Balsam Fir	20	Pole	8		Black Spruce	Medium	10 - 20 feet	Sapling
Red Pine	5	Log/Pole	10					
Jack Pine	40	Log/Pole	12	90				
Black Spruce	23	Pole	9					

60 4319 - Mixed Upland Forest Poletimber Well 1.1 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole	8	90	Balsam Fir	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole	6					
Paper Birch	20	Pole/Log	10					
Red Maple	30	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
62	6224 - Treed Bog	Nonstocked	17.2	0		No				
63	6122 - Black Spruce	Poletimber Well	21.1	60	141-170	N/A	1 to 3 stick spruce. Healthy crowns on spruce and jack pine. White pine sawtimber and white birch poles present. Roughly 40% of spruce stems still at large sapling stage. There are some lowland areas within stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	4	Pole	9		Black Spruce	Low	>20 feet	Sapling
		Black Spruce	86	Pole/Log	8	60				
		Paper Birch	2	Pole	6					
		Jack Pine	8	Pole	10					
64	3301 - Low Density Deciduous Trees	Nonstocked	6.9		Unspecified	No	Sweetfern predominant groundcover, with some blueberry and bracken. Black cherry, red maple and jack pine saplings most numerous woody plants. Oak and red pine saplings also present. Red pine, white pine and red oak sawtimber found. Red oak, red maple and bigtooth aspen poles present. Stand well on its way to succeeding to forested state.			
65	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.5	90	111-140	N/A	Higher terrain. Red oak poles present. Red pine saplings found.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	25	Pole/Sapling	8		Black Spruce	Low	10 - 20 feet	Sapling
		Paper Birch	25	Pole/Log	10	90	Balsam Fir	Low	10 - 20 feet	Sapling
		Bigtooth Aspen	10	Pole/Sapling	8					
		Red Pine	5	Log/Pole	14					
		Jack Pine	15	Pole	8					
		Black Spruce	20	Pole	8					
67	500 - Water	Nonstocked	1.5			No	Outlet of this pond flows east into Heart Lake.			
68	6220 - Alder/willow	Nonstocked	3.6			No	Black spruce saplings present.			
69	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.4	80	Unspecified	N/A				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	33	Log/Pole	12		Tag Alder	High	5 - 10 feet	Tall Shrub
		Tamarack	33	Pole/Log	10					
		Black Spruce	34	Pole	8	80				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 4311 - Pine, Aspen Mix Poletimber Well 12.3 72 51-80 N/A Scattered open areas. Higher terrain. White spruce and red pine poletimber present.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	30	XLog/Log	18	72
Quaking Aspen	10	Sapling	2	
Red Maple	10	Sapling	1	
White Pine	15	XLog/Log	18	
Red Oak	15	Log/Pole	10	
Bigtooth Aspen	20	Sapling	2	15

74 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.9 76 81-110 N/A Stand was cut in the fall of 2014. TS#106-14. Aspen and maple should regenerate well within the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	30	Log	14	76
Jack Pine	10	Log/Pole	12	
Red Oak	40	Log/Pole	12	76
Bigtooth Aspen	5	Log/Pole	12	
Paper Birch	15	Log/Pole	12	