



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32259

Entry Year 2023

Acreage: 1,133

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2021-08-03

Stand Examiner: Rick Hill

Legal Description:

T45N R27W Sections 1 and 12.

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. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen, lowland conifer, and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include increasing diversity and long-term oak sustainability through under planting white and red pine; and to maintain or increase wildlife corridors especially along riparian areas. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and oak regeneration will be priority.

Soil and topography:

Soils in this area are primary The Rubicon-Keweenaw sands. These soils are very deep, well drained to excessively drained. The lowlands soils are made up of Carbondale and Tawas muck soils. Topography ranges from level to rolling to moderately hilly in the southwest corner.

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

Mostly adjacent to State land with two eighty and one forty acre parcels around the perimeter. Land use is primarily for forest production and passive recreation.

Unique Natural Features:

Hay Lake is located within this compartment, as are a few spring ponds.

Archeological, Historical, and Cultural Features:

There are no known sites within this compartment.

Special Management Designations or Considerations:

Riparian Management Zones (RMZ) are in place to protect surface waters within the compartment.

Watershed and Fisheries Considerations:

The southern region of this compartment contains headwaters of Bear Creek which serves as tributary to the Middle Branch of the Escanaba River. Bear Creek is designated a Type 1 trout stream less than 50' width and has predicted mean July temperatures that range from 59.2 to 61.2 °F (cold stream). 300' buffers are recommended for Bear 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.

Wildlife Habitat Considerations:

Compartment 259 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; course 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

Sections 1 and 12, T45N-R27W, Marquette County. Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. There is not a current economic use for these rocks. Gravel pits are not located in the area, but potential appears to be good. Abandoned iron mines are located nine miles to the north. Section 2 to the west was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good through the compartment with DNR roads and two tracks accessing the compartment. There is an old bridge that needs some work in an adjacent compartment.

Survey Needs:

Any surveys needed will be requested after review.

Recreational Facilities and Opportunities:

There are no recreation facilities in this compartment. There is little potential for recreation development. This area will continue to be used for dispersed recreation.

Fire Protection:

This area is within the Gwinn Field Office protection area. Good access and water sources exist throughout this compartment and surrounding landscape for wildfire response.

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**

Report 1 – Total Acres by Cover Type and Age Class

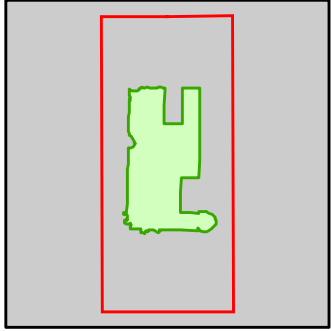


Age Class

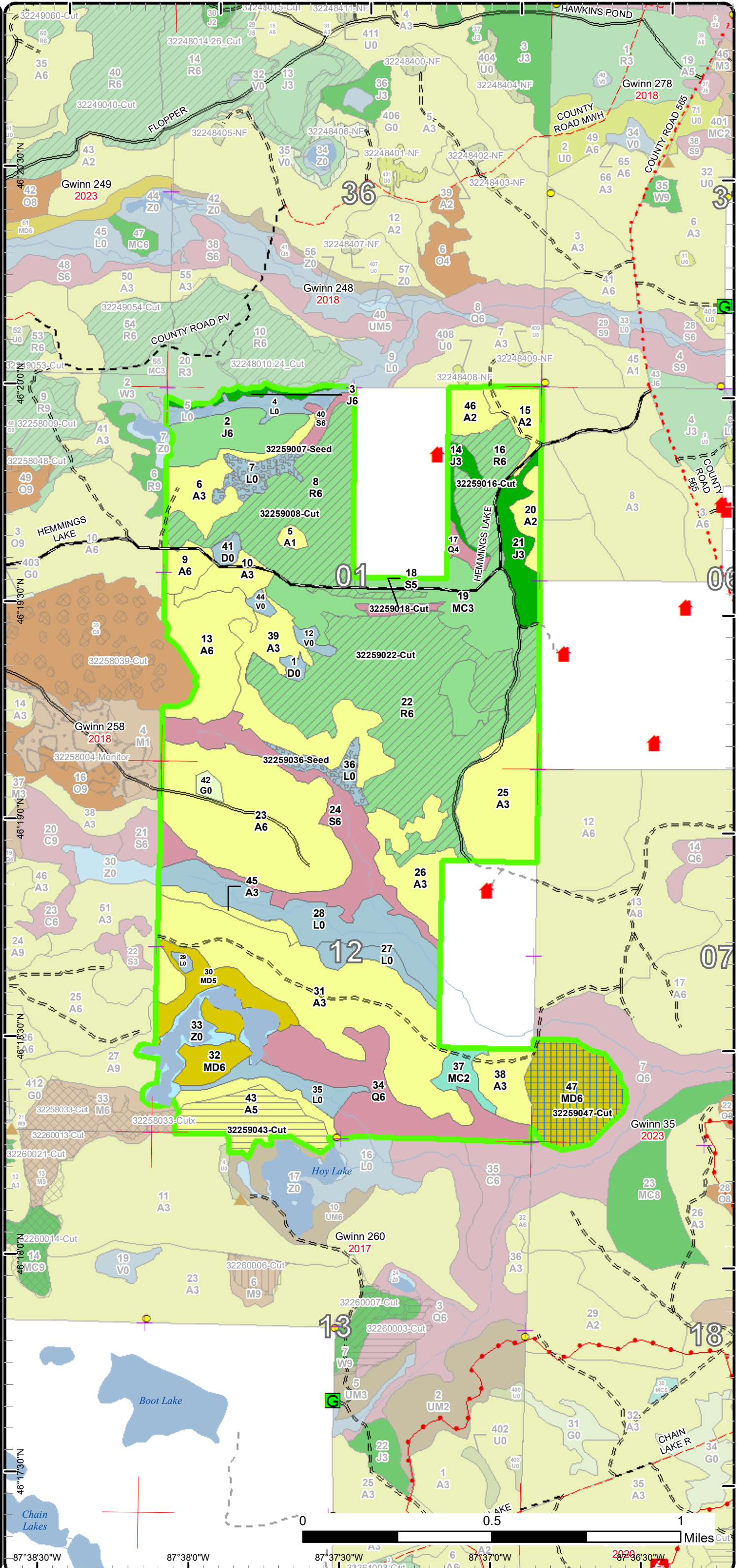
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	41	11	63	310	0	0	0	0	0	0	37	0	0	0	0	0	0	462
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	0	24	0	23	0	0	0	0	0	5	0	0	0	0	0	0	0	52
Lowland Conifers	0	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	0	56
Lowland Shrub	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	50	0	4	0	0	0	0	0	0	53
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	38	32	0	0	0	0	0	0	0	70
Planted Mixed Pines	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Red Pine	0	0	0	0	0	0	239	0	0	0	0	0	0	0	0	0	0	0	239
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	135	41	35	121	341	0	239	0	0	144	37	41	0	0	0	0	0	0	1133

Cover Type & Treatments Map

Compartment: 259
 T45N, R27W, Sec. 01, 12
 T45N, R26W Sec. 7
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
 Acres: 1132.9 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review

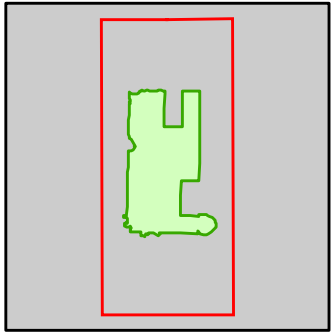


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🚗 ORV License & Trail Permit
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- 📍 Berms
- 🚪 Gate
- 🟩 Compartment Boundary
- 🟨 Clearcut (w/Reserves)
- 🟦 Seed Tree (w/Reserves)
- 🌲 Seeding (tree species)
- 🌲 Thinning (Crown, Low, Systematic)
- 🟨 413 - Aspen Types
- 🟧 419 - Mixed Upland Deciduous
- 🟩 421 - Planted Pines
- 🟩 422 - Natural Pines
- 🟩 429 - Mixed Upland Conifers
- 🟩 612 - Lowland Coniferous Forest
- 🟩 310 - Herbaceous Openland
- 🟩 500 - Water
- 🟩 622 - Lowland Shrub

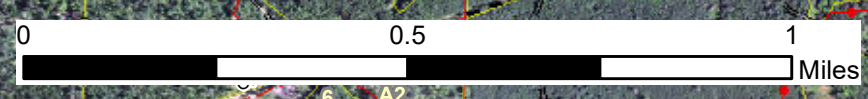
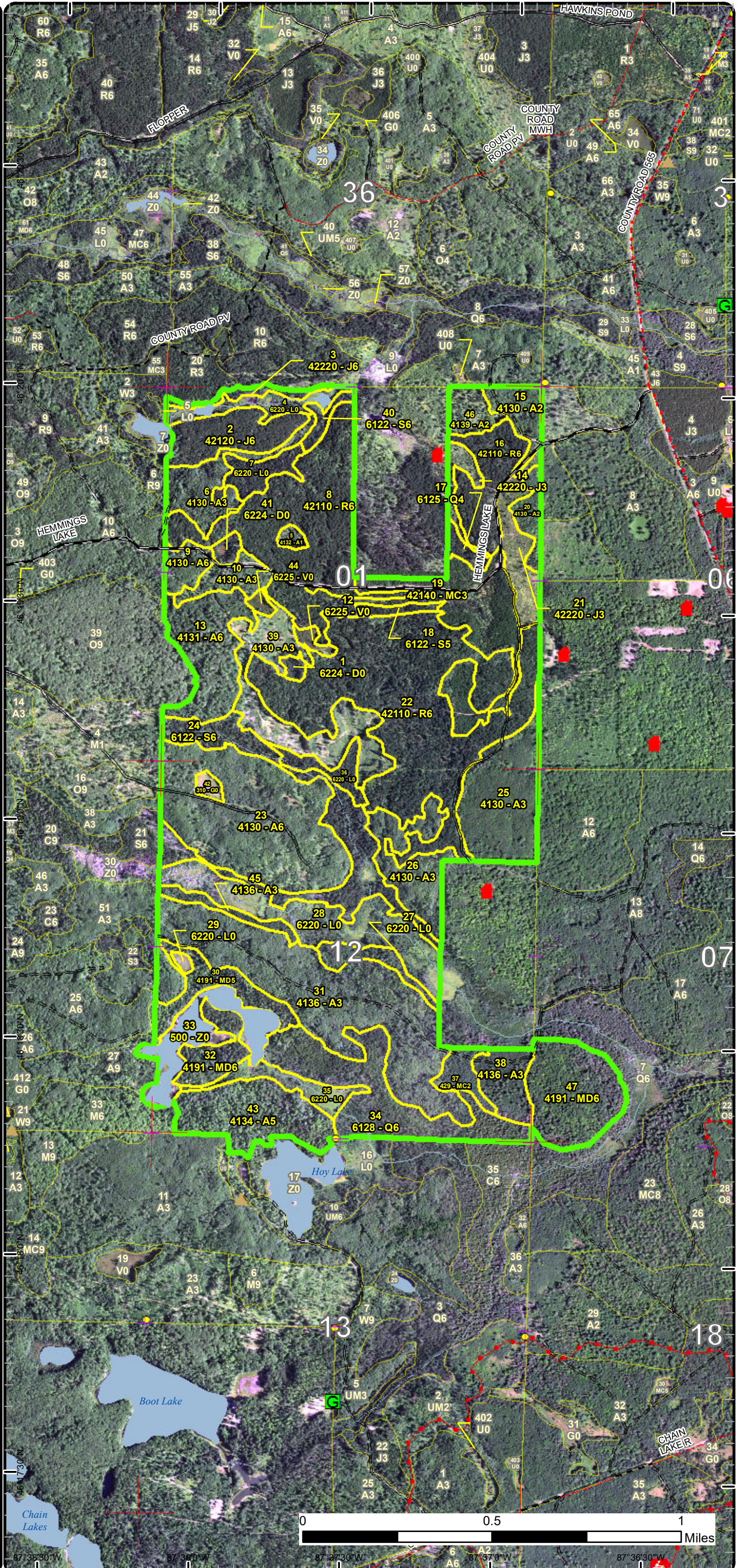


Stand Boundary Map

Compartment: 259
 T45N, R27W, Sec. 01, 12
 T45N, R26W Sec. 7
 County: Marquette
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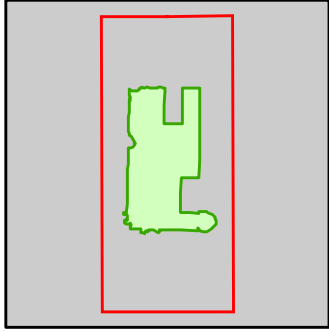
- Miris Corners
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- Counties
- DNR - Primary Forest Road
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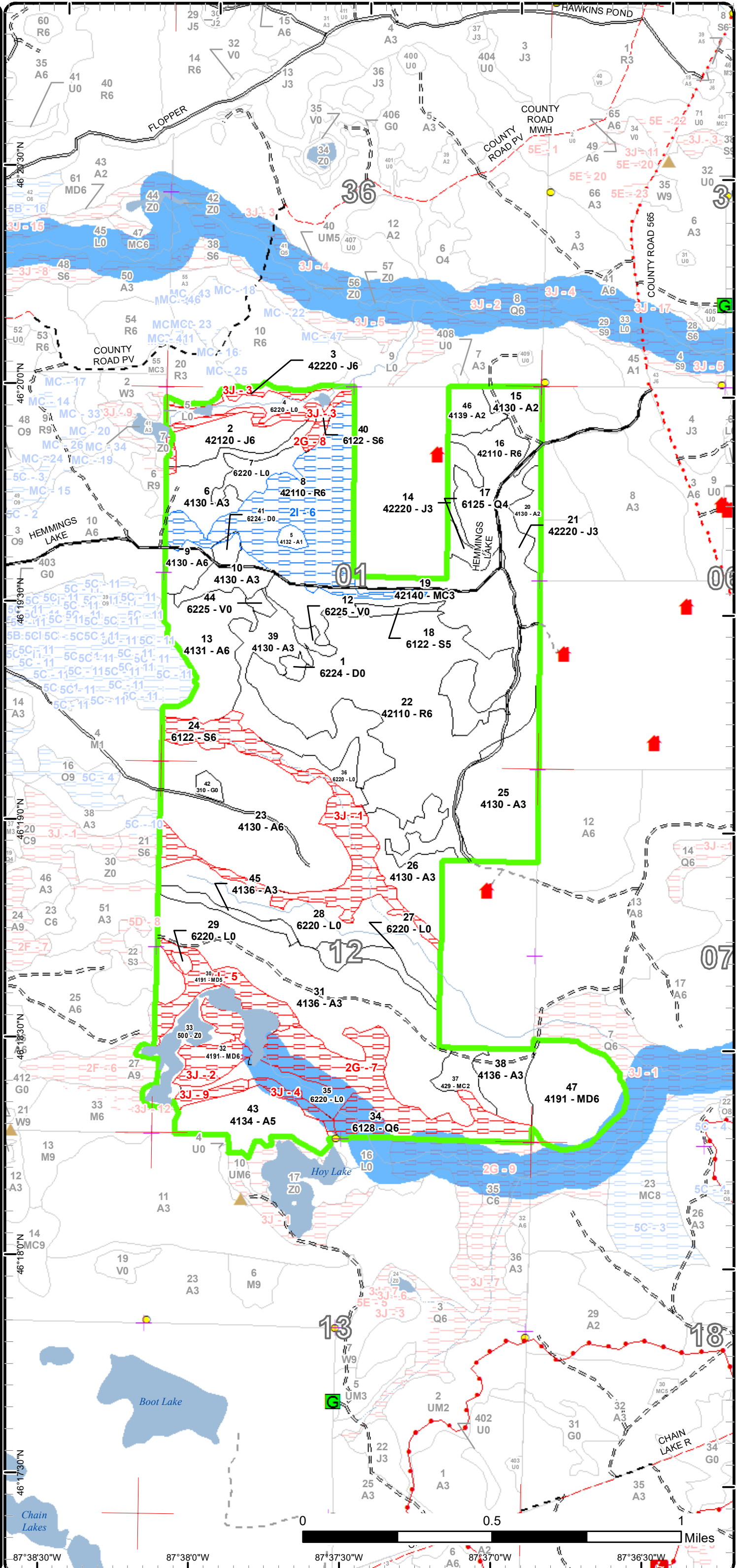
87°38'30"W
87°36'0"W
87°33'30"W
87°31'0"W
87°28'30"W

Special Conservation Areas

Compartment: 259
 T45N, R27W, Sec. 01, 12
 T45N, R26W Sec. 7
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2023
 Acres: 1132.9 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/13/2021
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
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- ORV License & Trail Permit
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- ▲ Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 259
Total Compartment Acres: 1,133

Commercial Harvest - 237
Harvests with Site Condition - 71
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	28	0	0	0	0	0	0	0	0	28
Lowland Spruce/Fir	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	38	0	0	0	0	0	38
Red Pine	0	0	0	0	0	239	0	0	0	239
Total	31	0	0	38	0	239	0	0	0	308

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	308	0	0	19	0	0	0	0	0	327
Next Step	0	0	0	0	0	0	88	0	0	88
Total	308	0	0	19	0	0	88	0	0	415



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:

7	32259007-Seed	10.6	6220 - Alder/willow	Nonstocked	2020	Unspecified	Seeding	Machine Seed	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Seed site to black spruce with snowmobile. <u>Specs:</u> <u>Next Step</u> Monitoring, Direct Seeding <u>Treatments:</u> <u>Acceptable</u> black spruce <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
8	32259008-Cut	70.6	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 100 SQFT removing defective trees and improving spacing. Look for opportunities to increase stand diversity <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2022</p>											
16	32259016-Cut	24.5	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 100 Sf marking defective trees and improving spacing. Look for opportunities to increase stand diversity <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
18	32259018-Cut	3.4	6122 - Black Spruce	Poletimber Medium	86	1-50	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leaving only red and white pine and cedar. Retain a few spruce and tamarack using red line. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Black spruce, mixed conifer, mixed hardwood. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</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
22 32259022-Cut	143.9	42110 - Planted Red Pine	Poletimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to target BA of 100 SF. density varies some in lower BA areas mark suppressed trees, and defective trees while trying to stay close to 100SF. in areas with better stocking use normal thinning rules and improve spacing, operability, and improve overall stand quality. Look for opportunities to increase stand diversity</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
36 32259036-Seed	8.3	6220 - Alder/willow	Nonstocked	0	Unspecified	Seeding	Machine Seed	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Seed site to black spruce with snowmobile.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Direct Seeding</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Black Spruce</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
43 32259043-Cut	27.8	4134 - Aspen, Spruce/Fir	Poletimber Medium	100	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand using a 2 inch spec. Leaving only red pine and white pine also leave any oak or hemlock if found. Area retention will be made up by the RMZ buffers on the north end of the stand and will have a mix of species present in the stand.</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 Regen:</u> aspen, maple, mixed hardwood, mixed conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
47 32259047-Cut	37.7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	85	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut using a seed tree system. Leave all red and white pine as well as oak. mark birch to leave. average residual BA should be 10-30 SQ Ft of a mix of white pine, red pine, oak and birch.</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 Regen:</u> Birch, maple, oak, white pine, spruce, fir, aspen</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
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Total Treatment
Acreage Proposed: 326.8

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 259
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2I	2G	3J
462	453	0	9	Aspen		9
5	5	0	0	Bog		
3	3	0	0	Herbaceous Openland		
52	41	0	11	Jack Pine		11
56	4	0	52	Lowland Conifers	52	
96	96	0	0	Lowland Shrub		
54	3	0	51	Lowland Spruce/Fir	2	49
70	38	0	32	Mixed Upland Deciduous	0	32
58	58	0	0	Planted Mixed Pines		
239	169	70	0	Red Pine	70	
5	5	0	0	Treed Bog	0	
8	8	0	0	Upland Conifers		
26	26	0	0	Water	0	
1,133	908	71	154	Total Forested Acres	71	101
	80%	6%	14%	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)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 259
Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 259
Year of Entry: 2023

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	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	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	6224 - Treed Bog	Nonstocked	2.1	0	Unspecified	No																																																						
2	42120 - Planted Jack Pine	Poletimber Well	23.0	34	51-80	N/A	Harvested in 1984: TS#25-82. Planted in 1986.																																																					
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3	42220 - Natural Jack Pine	Poletimber Well	5.1	95	111-140	N/A	Stand was retained as a buffer zone along the Flopper Creek.																																																					
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5	4132 - Aspen, Jack Pine	Sapling Poor	2.4	32	Immature	N/A	Merchantable non-red pine trees thinned out in 1989-90: TS#39-89-2.																																																					
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14	42220 - Natural Jack Pine	Sapling Well	6.4	15		N/A	Harvested in 2005: TS# 122-03-01. Trenched and seeded to jack pine in 2009. Regeneration check indicates low survival rates for the seeding. Significant aspen competition.																																														
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16	42110 - Planted Red Pine	Poletimber Well	24.5	59	111-140	N/A	Partially cut in 1992: TS# 22-92. Machine planted in 1962. A3 and J3 inclusions.																																														
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17	6125 - Lowland Black Spruce, Jack Pine	Poletimber Poor	4.1	86	1-50	N/A	Marginally productive.																																														
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18	6122 - Black Spruce	Poletimber Medium	3.4	86	1-50	N/A	Portions, especially along the edges, of this stand have been cut with adjacent timber sales.																																														
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19	42140 - Planted Mixed Pine	Sapling Well	58.3	25	51-80	N/A	Harvested in 1994: TS#8-93. Planted in 1996 with red pine and some oak. Did not observe any oak.																																																						
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22	42110 - Planted Red Pine	Poletimber Well	144.1	59	111-140	N/A	Partially cut non-red pine tree species in 1994: TS# 24-93. This management has resulted in small to large canopy breaks and a two storied stand.																																																						
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26	4130 - Aspen	Sapling Well	26.1	30		N/A	Harvested in 1990: TS# 16-88. Heavy beaver impact in south end of stand.																																																																									
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27	6220 - Alder/willow	Nonstocked	8.5			No	Bear Creek riparian area.																																																																									
28	6220 - Alder/willow	Nonstocked	44.4			No	Bear Creek riparian area.																																																																									
29	6220 - Alder/willow	Nonstocked	1.2	2020		No	Large kettle hole with lowest point in center turned into a beaver meadow. Perimeter sloping down to the bottom is upland and portions have been cut with adjacent timber sales.																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 17.6 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	30	Pole	8	92	Balsam Fir	High	10 - 20 feet	Sapling
Balsam Fir	10	Pole	7		White Pine	Low	5 - 10 feet	Sapling
White Spruce	15	Pole/Log	9		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar	5	Pole	9		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
White Pine	10	Log/Pole	14					

31 4136 - Aspen, Mixed Conifer Sapling Well 104.1 33 1-50 N/A Cut in 1987: TS# 8-83. Areas of better soils are more pole size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	2	Log/Pole	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	60	Pole/Sapling	6	34	Black Spruce	Low	10 - 20 feet	Sapling
Balsam Poplar	5	Sapling/Pole	5		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	5		Red Pine	Low	10 - 20 feet	Sapling
Black Spruce	6	Sapling/Pole	5		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	7	Log/Pole	14					
Red Pine	3	Log/Pole	14					
Jack Pine	5	Sapling/Pole	4					

32 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 14.3 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	40	Pole	8	92	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7		Tag Alder	Low	< 5 feet	Tall Shrub
White Spruce	15	Pole/Log	9					
Quaking Aspen	10	Log/Pole	10					
Balsam Poplar	10	Pole	8					

33 500 - Water Nonstocked 25.6 No Small Lake the headwaters of bear creek.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	51.6	86	111-140	N/A	Riparian buffer zone.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	20	Pole	7		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	3	Pole	7		Black Spruce	Medium	>20 feet	Sapling
Balsam Poplar	10	Pole/Log	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	7					
White Spruce	2	Pole/Log	10					
Black Spruce	27	Pole	7	86				
Northern White Cedar	20	Pole/Log	9					
Tamarack	5	Pole	8					
White Pine	3	Log	15					

35	6220 - Alder/willow	Nonstocked	11.8			No	Drainage in the headwaters of Bear Creek
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Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Pole
Tag Alder	Medium		Tall Shrub
Willow spp.	Low		Tall Shrub
Black Spruce	Low		Pole
Red Maple	Low		Sapling
Tamarack	Low		Pole

36	6220 - Alder/willow	Nonstocked	8.3	0	Unspecified	612 - Lowland Coniferous Forest	Cut under Sale # 32-305-11-01 Hemmings Extended Aspen
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37	429 - Mixed Upland Conifers	Sapling Medium	8.0	32	1-50	N/A	Harvested in 1988: TS# 8-83. Contains some minor lowland inclusions.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Sapling	3	33	Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	4		Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce	32	Sapling	3		White Pine	Low	5 - 10 feet	Sapling
Tamarack	15	Sapling	3		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Log/Sap	8		Willow spp.	Low	5 - 10 feet	Tall Shrub
Red Pine	5	Sapling/Pole	4					
Jack Pine	3	Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
38	4136 - Aspen, Mixed Conifer	Sapling Well	15.0	32		N/A	Harvested in 1988: TS# 8-83.																																																																
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42	310 - Herbaceous Openland	Nonstocked	2.6	2020		Managed Opening	Wildlife opening																																																																
43	4134 - Aspen, Spruce/Fir	Poletimber Medium	36.8	100	51-80	N/A	Heavy aspen mortality creating a two storied stand structure with the understory mostly comprised of red maple.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 6225 - Bog Nonstocked 1.9 2020 No

45 4136 - Aspen, Mixed Conifer Sapling Well 6.3 33 1-50 N/A Cut in 1987: TS# 8-83. Areas of better soils are more pole size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Red Oak	2	Log/Pole	14		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen	60	Pole/Sapling	6	34	Black Spruce	Low	10 - 20 feet	Sapling
Balsam Poplar	5	Sapling/Pole	5		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Sapling/Pole	5		Red Pine	Low	10 - 20 feet	Sapling
Black Spruce	6	Sapling/Pole	5		Choke Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	7	Log/Pole	14					
Red Pine	3	Log/Pole	14					
Jack Pine	5	Sapling/Pole	4					

46 4139 - Aspen, Mixed Deciduous Sapling Medium 9.0 28 Immature N/A Harvested in 1993: TS# 6-93. Regeneration in the west half of this stand is lacking.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling	2		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	2	Log/Pole	12		Jack Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	25	Sapling	3		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	30	Sapling	3	28	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Jack Pine	18	Sapling	4					

47 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 37.7 85 81-110 N/A Stand is on a hilltop a mix of species occur here. The spruce and fir have been wiped out by budworm, and the birch is in decline.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	15	Log/Pole	14	
White Pine	15	XLog/Log	18	
Red Pine	5	Log/Pole	16	
Red Maple	30	Pole	8	
Paper Birch	30	Pole	8	85
Quaking Aspen	5	Log/Pole	10	