



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32272

Entry Year 2024

Acreage: 726

County Marquette

Management Area: Chain Lakes Moraine

Stand Examiner: Rick Hill

Legal Description:

T45N-R28W, Sections 14, 23

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:

Upland soils are primarily sandy loams. The terrain ranges from level to rolling to slightly hilly.

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

Large private land holdings boarder the north and south sides of this tract. The east and west sides for the most part are State land.

Unique Natural Features:

No known features in the area.

Archeological, Historical, and Cultural Features:

no known sites in the area.

Special Management Designations or Considerations:

None other then cold water RMZ buffers

Watershed and Fisheries Considerations:

This compartment contains various reaches of Camp Eleven Creek in addition to several unnamed waterbodies. Camp Eleven Creek is a designated Type 1 trout stream less than 50' width and has predicted mean July temperatures that range from 56.8 to 62.2 °F (cold stream). 300' buffers are recommended for Camp Eleven 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. A 100' buffer is recommended for unnamed waterbodies to protect shoreland resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 272 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

Compartment 272 Sections 14 & 23, T45N-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 potential for sand & gravel within the compartment on the uplands. No past mining activity has occurred in the area. There is no known potential for metallic minerals beneath the compartment, but detailed geologic mapping is lacking. Two isolated core samples collected within three miles of the compartment did not document any significant mineral occurrences or concentrations. No recent State mineral leasing activity has occurred in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the

dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Quite poor from the west over a just passable county road to closed forest access route. from the east similarly a poor county road leads to a two track that is little traveled and mostly grown over leading into the compartment.

Survey Needs:

Any need survey requests will be summited after the compartment review.

Recreational Facilities and Opportunities:

This compartment does not have any recreational facilities nor any real opportunities for any developed recreation. recreational use will likely continue to be dispersed hunting and fishing.

Fire Protection:

Low and cover types as well as primarily deciduous forests keep fire danger in this area relatively low.

Additional Compartment Information:

The following reports from the Inventory are attached:

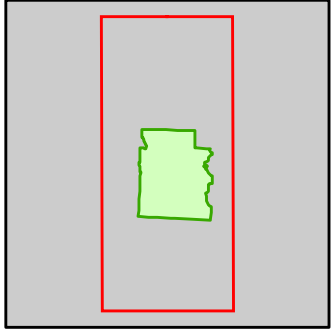
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

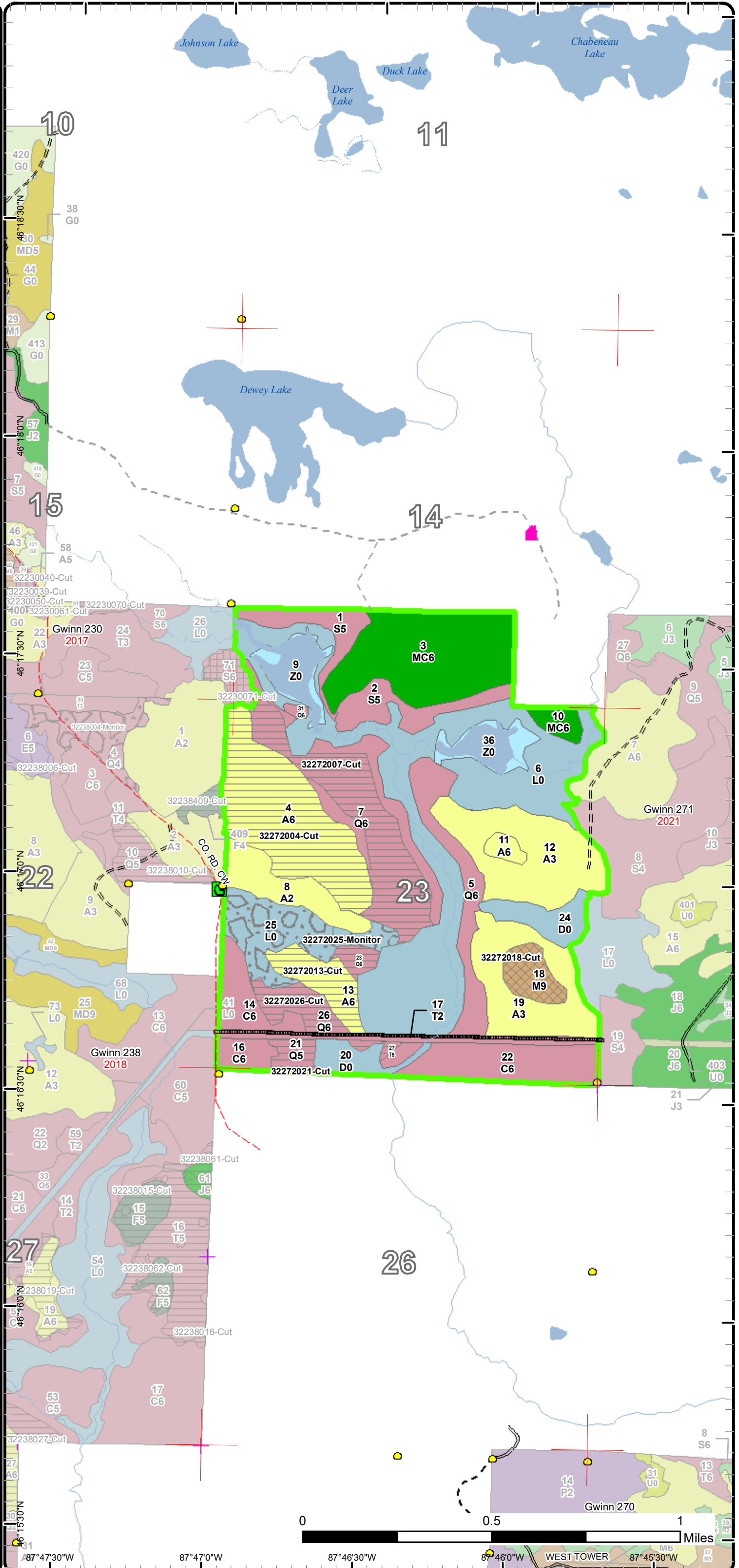
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 272
 T45N, R28W, Sec. 14, 23
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 725.5 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/4/2022
 Map Phase: Web-Post

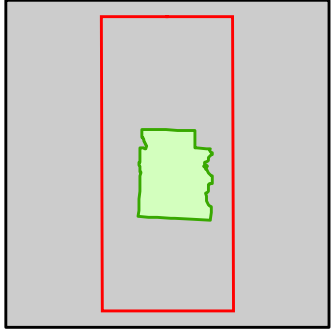


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Structure, Seasonal Dwelling
- Gate
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub

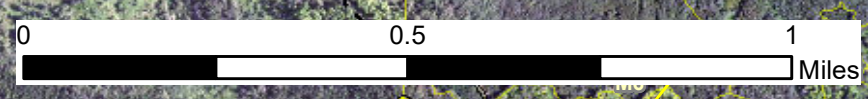
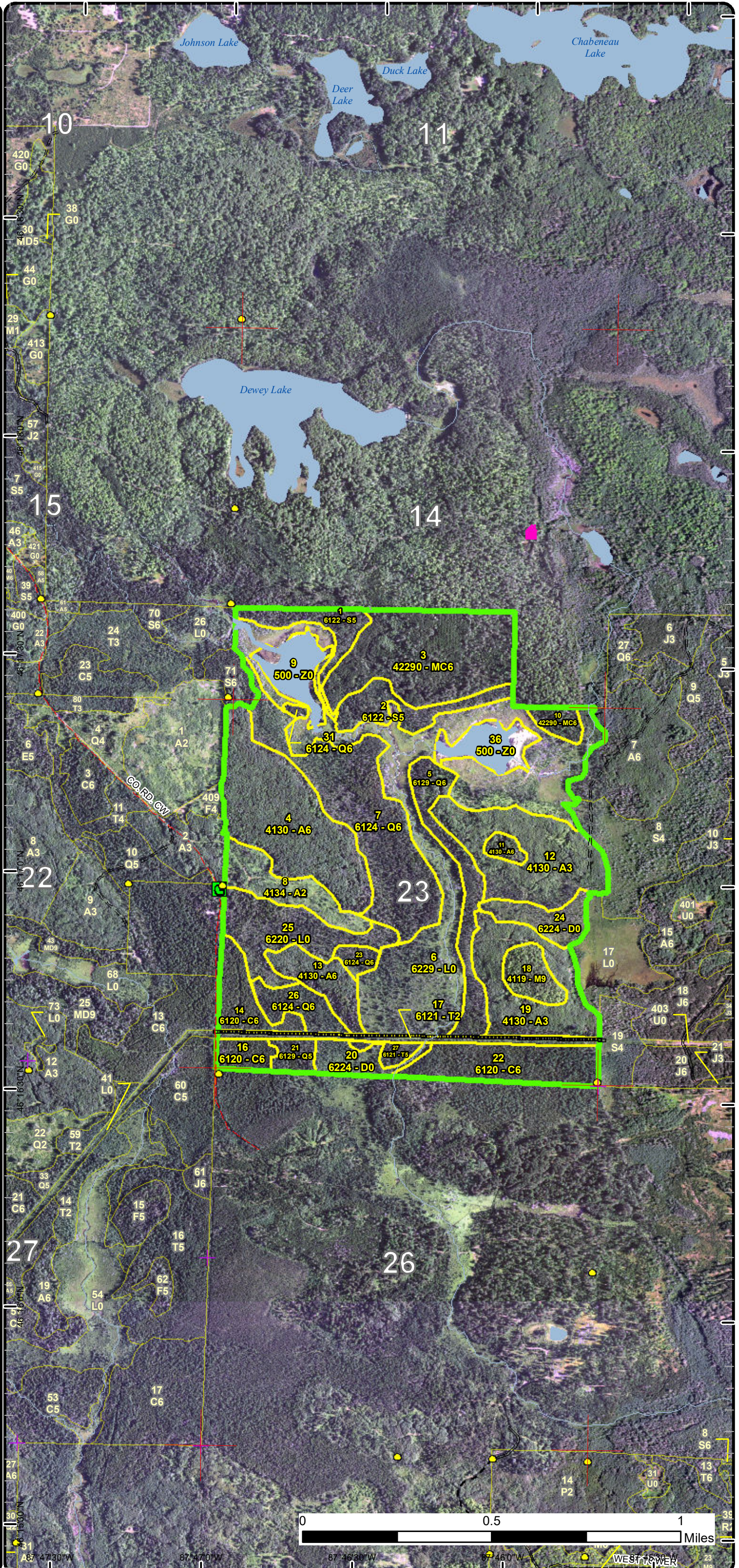


Stand Boundary Map

Compartment: 272
 T45N, R28W, Sec. 14, 23
 County: Marquette
 Unit: Gwinn
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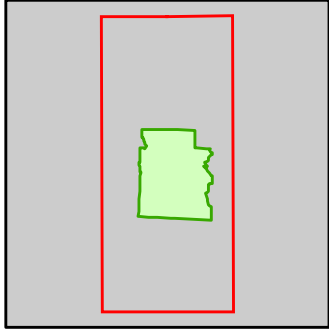
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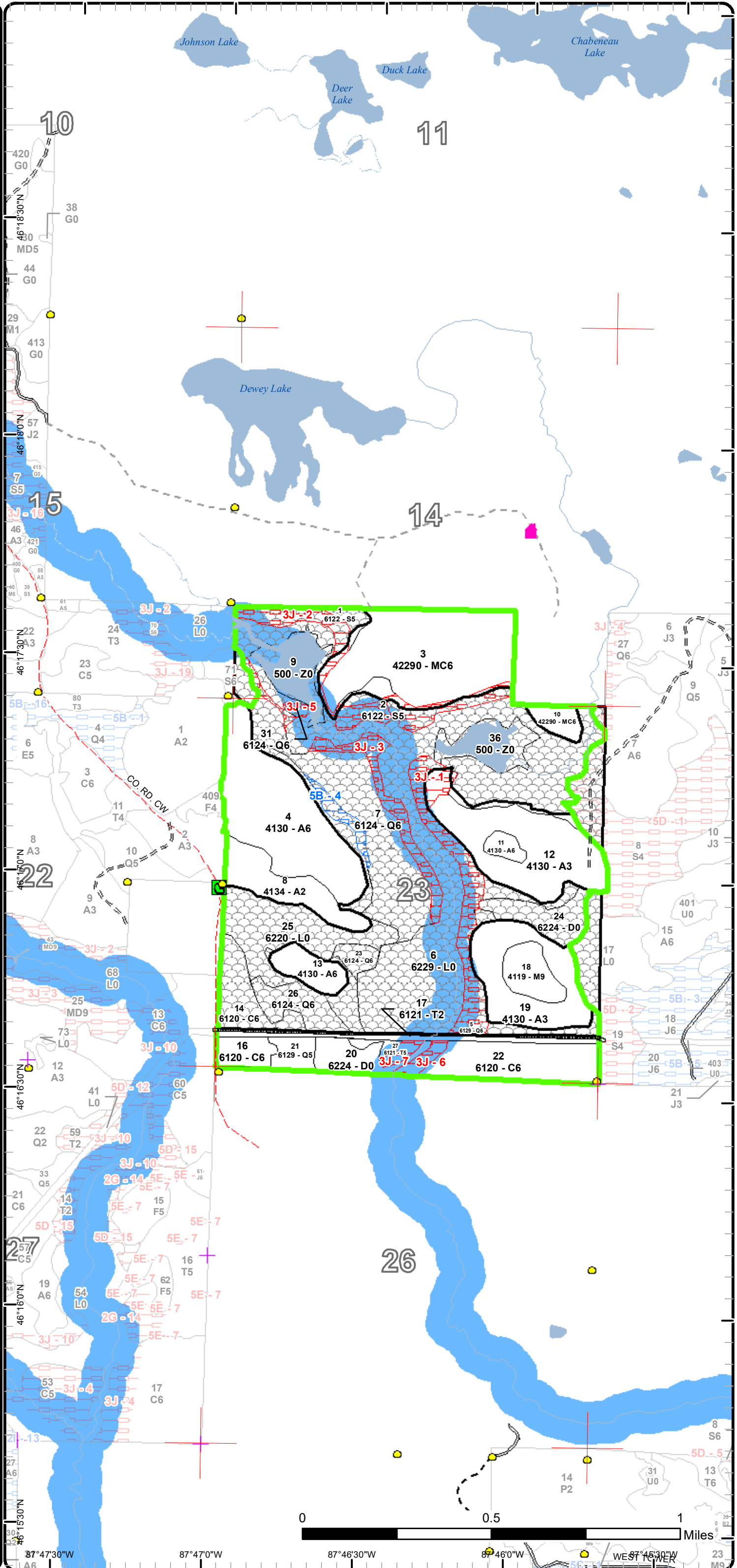
87° 47' 30" W 87° 47' 0" W 87° 46' 30" W 87° 46' 0" W WEST TOWER 23 M9

Special Conservation Areas

Compartment: 272
 T45N, R28W, Sec. 14, 23
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 725.5 GIS Calculated
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- Miris Corners
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- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Structure, Seasonal Dwelling
- Gate
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA Removal
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	0	21	88	0	83	0	0	0	0	4	0	0	0	0	0	0	0	196
Cedar	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	55
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	119	0	0	0	0	0	0	0	119
Lowland Shrub	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Tamarack	0	0	0	12	0	0	0	0	0	0	4	0	0	0	0	0	0	0	16
Treed Bog	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	226	0	21	100	70	83	0	0	0	0	226	0	0	0	0	0	0	0	726



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 272
Total Compartment Acres: 726

Commercial Harvest - 168
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	83	0	0	0	0	0	0	0	0	83
Lowland Conifers	72	0	0	0	0	0	0	0	0	72
Northern Hardwood	0	12	0	0	0	0	0	0	0	12
Tamarack	2	0	0	0	0	0	0	0	0	2
Total	157	12	0	0	0	0	0	0	0	168

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	168	0	0	0	0	0	33	0	0	201
Next Step	0	0	0	33	0	0	168	0	0	201
Total	168	0	0	33	0	0	201	0	0	402



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:

72	32230072-Cut	12.6	4134 - Aspen, Spruce/Fir	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and up leaving only cedar, hemlock, white pine, and red pine within the harvest unit. Area retention will include mature aspen with forks as well as minor species within the stand. Look to retain an area on the west side along harvest from 10 years ago.</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, Fir, Mixed conifer and 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>											
409	32238409-Cut	4.3	42330 - Upland Fir	Poletimber Poor	32	1-50	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter leaving only oak, white pine, and red pine. No area retention die to small size and prevalence of SBW.</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> Fir, aspen, red 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>											
4	32272004-Cut	66.5	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees above 2 inches dbh. leave only white pine, red pine, cedar and hemlock. Area retention will include mature aspen and forked aspen along with paper birch if possible.</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, and mixed pine and 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>											
7	32272007-Cut	48.6	6124 - Lowland Spruce-Fir	Poletimber Well	97	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and up within the unit leave only cedar, hemlock, white pine, and red pine. Area retention along Camp 11 Creek will include if present tamarack, black spruce and paper birch. Cut on frozen ground to protect soil productivity.</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, red maple, aspen, BAM, mixed conifer and 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>											

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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
13 32272013-Cut	16.2	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees above 2 inches dbh, leaving only white pine, red pine, cedar and hemlock within the harvest area. Area retention should include some mature aspen with forks.</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, mixed hardwood, mixed conifer</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>										
18 32272018-Cut	11.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Cut using a selection system leaving 80 SQFT of residual. Use the complete marker as a guide. Per the complete marker mark to increase the abundance of minor stand components including paper birch and basswood.</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> Maple, mixed hardwood and conifer</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 /2030</p>										
21 32272021-Cut	6.3	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	97	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and up leaving only cedar, hemlock, white pine, and red pine within the harvest unit. Area retention should be focus on areas of cedar and include tamarack and black spruce as well as birch if possible. Cut on frozen ground to protect soil productivity and root systems of cedar.</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, tamarack, mixed hardwood, and conifer</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>										
23 32272023-Cut	4.5	6124 - Lowland Spruce-Fir	Poletimber Well	97	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and up leaving only cedar, hemlock, white pine, and red pine within the harvest unit. Area retention should include tamarack, black spruce and paper birch if possible.</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, mixed conifer, mixed 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>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	25 32272025-Monitor	33.0	6220 - Alder/willow	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	613 - Lowland Mixed Forest	Even-Aged	No
	<u>Prescription</u> Do a walkthrough of the site										
	<u>Specs:</u>										
	<u>Next Step</u> Seeding, Hand Seed										
	<u>Treatments:</u>										
	<u>Acceptable</u> Spruce, fir, aspen, mixed hardwood and conifer										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2025										
	26 32272026-Cut	12.6	6124 - Lowland Spruce-Fir	Poletimber Well	97	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
	<u>Prescription</u> Cut all trees two inches and up leaving only cedar, hemlock, white pine, and red pine within the cutting unit. Cut on frozen ground to protect										
	<u>Specs:</u> soil productivity. Area retention should include tamarack, black spruce as well as birch.										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> spruce, fir, tamarack, mixed conifer, mixed hardwood.										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 10/1 /2023										
	27 32272027-Cut	1.9	6121 - Tamarack	Poletimber Medium	97	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
	<u>Prescription</u> Cut all trees two inches and up leaving only cedar, hemlock, white pine, and red pine within the harvest unit. Area retention should include										
	<u>Specs:</u> tamarack and black spruce if possible. Cut on frozen ground to protect soil productivity.										
	<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
	<u>Treatments:</u>										
	<u>Acceptable</u> tamarack, spruce, mixed conifer and hardwood										
	<u>Regen:</u>										
	<u>Other</u>										
	<u>Comment:</u>										
	<u>Site Condition</u>										
	<u>Proposed Start Date:</u> 2 /8 /2022										

Total Treatment 218
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 272
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	3J	
195	195	0	0		0	Aspen
55	52	0	3		3	Cedar
119	72	5	42	5	42	Lowland Conifers
170	170	0	0		0	Lowland Shrub
32	7	0	24		24	Lowland Spruce/Fir
70	70	0	0			Natural Mixed Pines
11	11	0	0			Northern Hardwood
17	14	0	2		2	Tamarack
25	25	0	0			Treed Bog
31	31	0	0			Water
726	648	5	73	5	73	Total Forested Acres
	89%	1%	10%			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)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 272
Year of Entry: 2024

4	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
	Habitat Area	Other Habitat Area	SCA Removal	410
Comments				
This area does not meet the requirements for an SCA				



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	6122 - Black Spruce	Poletimber Medium	14.3	90	51-80	N/A	Riparian zone protection for lakes and streams that form the headwaters of the Camp Eleven Creek.																																																			
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3	42290 - Natural Mixed Pine	Poletimber Well	64.1	36	51-80	N/A	Cut in 1986: TS# 2-84. Some areas planted to jack pine and others to red pine. More natural regeneration than planted. Red and white pine along with various other species retained when cut. Stand contains inclusions of some larger groves of red pine sawtimber and aspen.																																																			
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5	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	26.1	97	Unspecified	N/A																																																				
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6	6229 - Mixed lowland shrub	Nonstocked	137.0	0		No	Riparian zone protection for the Camp Eleven Creek.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	6124 - Lowland Spruce-Fir	Poletimber Well	68.5	97	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir	20	Pole	8		Black Spruce	Medium	5 - 10 feet
Balsam Poplar	5	Pole	7		Tamarack	Low	5 - 10 feet
White Spruce	6	Pole	8		Tag Alder	High	5 - 10 feet
Black Spruce	35	Pole	8	97	Balsam Fir	High	5 - 10 feet
Tamarack	15	Log/Pole	10				
Paper Birch	5	Pole	7				
Northern White Cedar	11	Pole	9				
Quaking Aspen	3	Pole	7				

8	4134 - Aspen, Spruce/Fir	Sapling Medium	21.1	13		N/A	Harvested in 2010: TS# 333-07-01.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir	30	Sapling	2		Balsam Fir	Low	< 5 feet
Quaking Aspen	68	Sapling	1	13	Red Maple	Low	< 5 feet
Red Maple	2	Sapling	1				

9	500 - Water	Nonstocked	16.2	0	Unspecified	No	
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10	42290 - Natural Mixed Pine	Poletimber Well	6.2	36	1-50	N/A	Harvested in 1986: TS# 2-84. Red and white pine, and other miscellaneous species retained. Two storied stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine	25	Log/Pole	9		White Pine	Low	5 - 10 feet
Jack Pine	32	Pole/Sapling	5	36	Red Pine	Medium	5 - 10 feet
Red Maple	3	Pole	6		Balsam Fir	Medium	5 - 10 feet
Quaking Aspen	15	Sapling/Pole	5		Jack Pine	Low	5 - 10 feet
Paper Birch	5	Pole	7		Tamarack	Low	5 - 10 feet
Balsam Fir	10	Sapling/Pole	5		Black Spruce	Low	5 - 10 feet
White Pine	10	Log/Pole	10				

11	4130 - Aspen	Poletimber Well	4.0	97	81-110	N/A	This patch was left for retention when surrounding area was cut.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir	10	Pole	7		Balsam Fir	Medium	5 - 10 feet
White Spruce	5	Pole	9				
Bigtooth Aspen	10	Pole	9				
Red Maple	5	Pole	8				
Quaking Aspen	70	Pole	9	97			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 4130 - Aspen Sapling Well 49.2 26 N/A Harvested in 1996: TS# 17-94.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Sapling	2		Red Maple	Low	5 - 10 feet	Sapling
Balsam Poplar	3	Sapling	3		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	90	Sapling	2	26	Leatherwood	Low	< 5 feet	Tall Shrub
Red Maple	5	Sapling	2					

13 4130 - Aspen Poletimber Well 16.2 46 81-110 N/A Harvested in 1976: TS# 18-74A.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	2	Pole	9		White Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	93	Pole/Sapling	6	46	Black Cherry	Low	10 - 20 feet	Sapling

14 6120 - Lowland Cedar Poletimber Well 16.0 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Balsam Fir	High	5 - 10 feet	Sapling
Black Spruce	5	Pole	7	97	Black Spruce	Medium	5 - 10 feet	Sapling
Northern White Cedar	70	Pole	9	97	Tamarack	Low	5 - 10 feet	Sapling
White Spruce	2	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen	3	Pole	7					
Tamarack	5	Pole	8					
Balsam Poplar	5	Pole	7					
Paper Birch	5	Pole	7					

16 6120 - Lowland Cedar Poletimber Well 7.9 97 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	75	Pole	8	97	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	3	Pole	8		Black Spruce	Low	< 5 feet	Sapling
Tamarack	10	Pole	8	97				

17 6121 - Tamarack Sapling Medium 12.3 20 N/A Abandoned ELF right of way.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling	1		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Poplar	30	Sapling	2		Tamarack	Low	< 5 feet	Sapling
Balsam Fir	5	Sapling	1					
Black Spruce	5	Sapling	1					
Tamarack	55	Sapling	2	20				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18 4119 - Mixed Northern Hardwoods Sawtimber Well 11.5 97 81-110 N/A Selectively cut in 1996: TS# 17-94.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	10	97	Sugar Maple	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole/Log	9		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	10		Leatherwood	Low	< 5 feet	Tall Shrub
Basswood	30	Log/Pole	12					

19 4130 - Aspen Sapling Well 38.3 26 N/A Harvested in 1996: TS# 17-94.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Sapling	2	26	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	7	Sapling	2		Black Cherry	Low	5 - 10 feet	Sapling
Tamarack	3	Sapling	2		Red Maple	Low	5 - 10 feet	Sapling
Balsam Poplar	5	Sapling	3					

20 6224 - Treed Bog Nonstocked 11.0 0 Unspecified No Riparian zone protection for the Camp Eleven Creek.

21 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 6.3 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	3	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	20	Pole	7		Black Spruce	Low	< 5 feet	Sapling
Paper Birch	2	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	40	Pole	8	97	Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	35	Pole	8					

22 6120 - Lowland Cedar Poletimber Well 31.3 99 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Northern White Cedar	Medium	>20 feet	Sapling
Balsam Poplar	7	Pole	8		Paper Birch	Low	>20 feet	Sapling
Balsam Fir	5	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	18	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	50	Pole	8	99				
Tamarack	15	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 6124 - Lowland Spruce-Fir Poletimber Well 4.5 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	6	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Northern White Cedar	11	Pole	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	35	Pole	7	97	Tamarack	Low	5 - 10 feet	Sapling
Tamarack	15	Pole	8		Balsam Fir	High	5 - 10 feet	Sapling
Quaking Aspen	3	Pole	7					
Balsam Fir	20	Pole	6					
Balsam Poplar	5	Pole	7					
Paper Birch	5	Pole	7					

24 6224 - Treed Bog Nonstocked 13.5 0 No SCA = Riparian zone protection for the Camp Eleven Creek.

25 6220 - Alder/willow Nonstocked 33.0 0 612 - Lowland Coniferous Forest Cut by Minerick logging in 2018 under 11 elf eagle sale was not completed.

26 6124 - Lowland Spruce-Fir Poletimber Well 12.6 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	6	Pole	8		Tamarack	Low	5 - 10 feet	Sapling
Black Spruce	35	Pole	7	97	Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	15	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	11	Pole	9		Balsam Fir	High	5 - 10 feet	Sapling
Quaking Aspen	3	Pole	7					
Balsam Fir	20	Pole	6					
Balsam Poplar	5	Pole	7					
Paper Birch	5	Pole	7					

27 6121 - Tamarack Poletimber Medium 4.3 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole/Sapling	6		Tamarack	Low	10 - 20 feet	Sapling
Northern White Cedar	10	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	50	Pole/Sapling	7	97	Northern White Cedar	Low	10 - 20 feet	Sapling
					Black Spruce	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
31	6124 - Lowland Spruce-Fir	Poletimber Well	1.2	97	1-50	N/A	SCA = Riparian zone protection for the Camp 11 Creek and serves as a wildlife corridor. Wide ranging stocking and species composition.																																																													
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