



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32008

Entry Year 2024

Acreage: 1,053

County Marquette

Management Area: Dead Horse Moraines

Stand Examiner: Peter Holodnick

Legal Description:

T44N R23W Section(s) 1-3

Identified Planning Goals:

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

Soil and topography:

Ranges from level swamps and wetland drainages to slightly undulating upland terrain. Some steeper banks on Werners Creek. Major soil types include: Shoepac-Ensley complex, Shoepac-Reade, Charlevoix-Ensley, and Cathro-Ensley muck.

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

Private land along north, south and east portions of the compartment. Most is generally held for recreational/hunting use, with some industrial forest land.

Unique Natural Features:

No known MNFI concerns. Potential for Gomphus quadricolor (rapids clubtail) along Werner Creek which passes through several northern hardwood stands. Potential for calypso bulbosa, round leaved orchid, limestone oak fern and Cypripedium arietinum in cedar swamp. Potential for rare plants of rich mesic forests: Carex assiniboinensis, showy orchis, Ginseng, Goblin Fern. Potential for red-shouldered hawk. Potential for wood turtle in Werner Creek.

Archeological, Historical, and Cultural Features:

None identified with HAL.

Special Management Designations or Considerations:

Riparian corridor stands and natural hemlock and white pine cover types providing diversity.

Watershed and Fisheries Considerations:

This compartment contains the North Branch of Deer Creek, Werners Creek, and unnamed streams that serve as tributaries to Werners Creek. The North Branch Deer Creek, Werners Creek, and all unnamed tributaries are designated Type 1 trout streams less than 50' width with predicted mean July temperatures that range from 65.3 to 65.8 °F (cold streams). 300' buffers are recommended for the North Branch Deer Creek, Werners Creek, and the unnamed tributaries 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 008 is found within the Dead Horse Moraines Management Area, on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The

Ordovician Trenton and Black River Groups subcrop below the glacial drift. These formations are quarried for stone/dolomite in other areas of the State. The nearest gravel pit is located one mile to the northeast of the compartment and potential appears to be good. Abandoned iron mines are located twelve miles to the west. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the south portion via McFarland and Co Rd 444; seasonal access from the west off Co Rd 533.

Survey Needs:

Recreational Facilities and Opportunities:

No recreational facilities. Hunting, fishing and harvesting opportunities exist.

Fire Protection:

Low risk area.

Additional Compartment Information:

The following reports from the Inventory are attached:

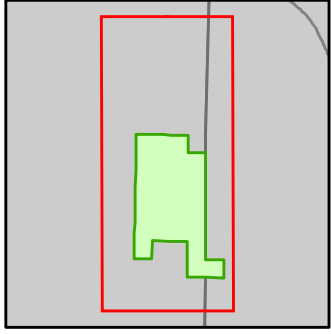
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

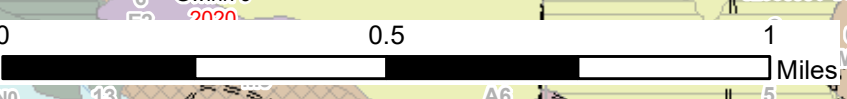
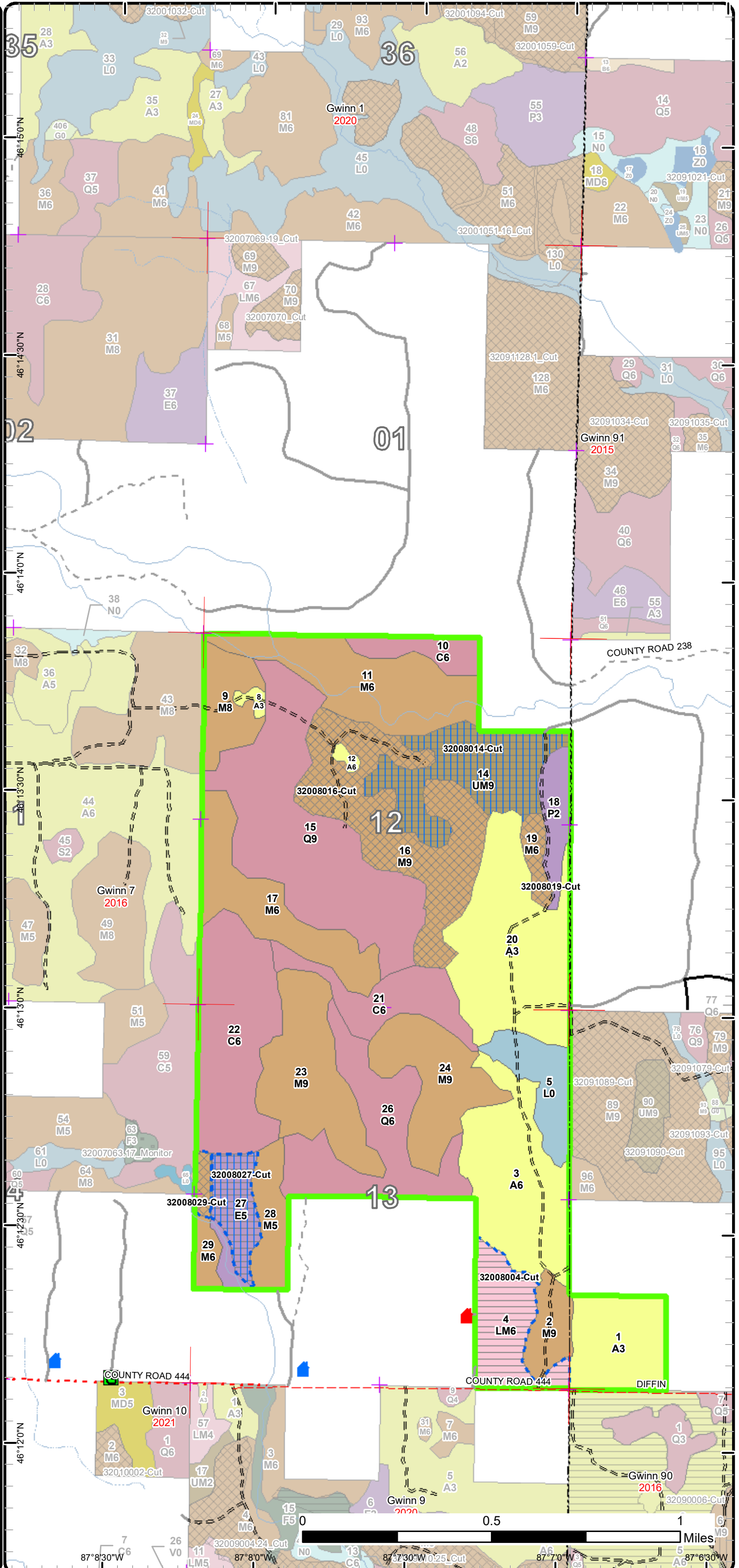
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 8
 T44N, R23W, Sec. 01, 12, 13
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2024
 Acres: 1052.6 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/4/2022
 Map Phase: Web-Post



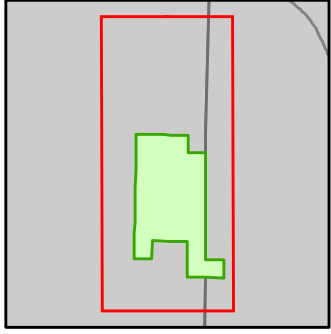
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- House
- G Gate
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub



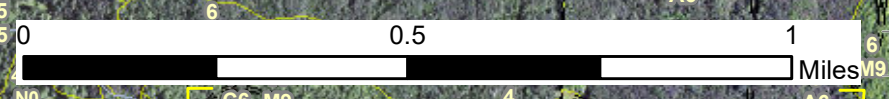
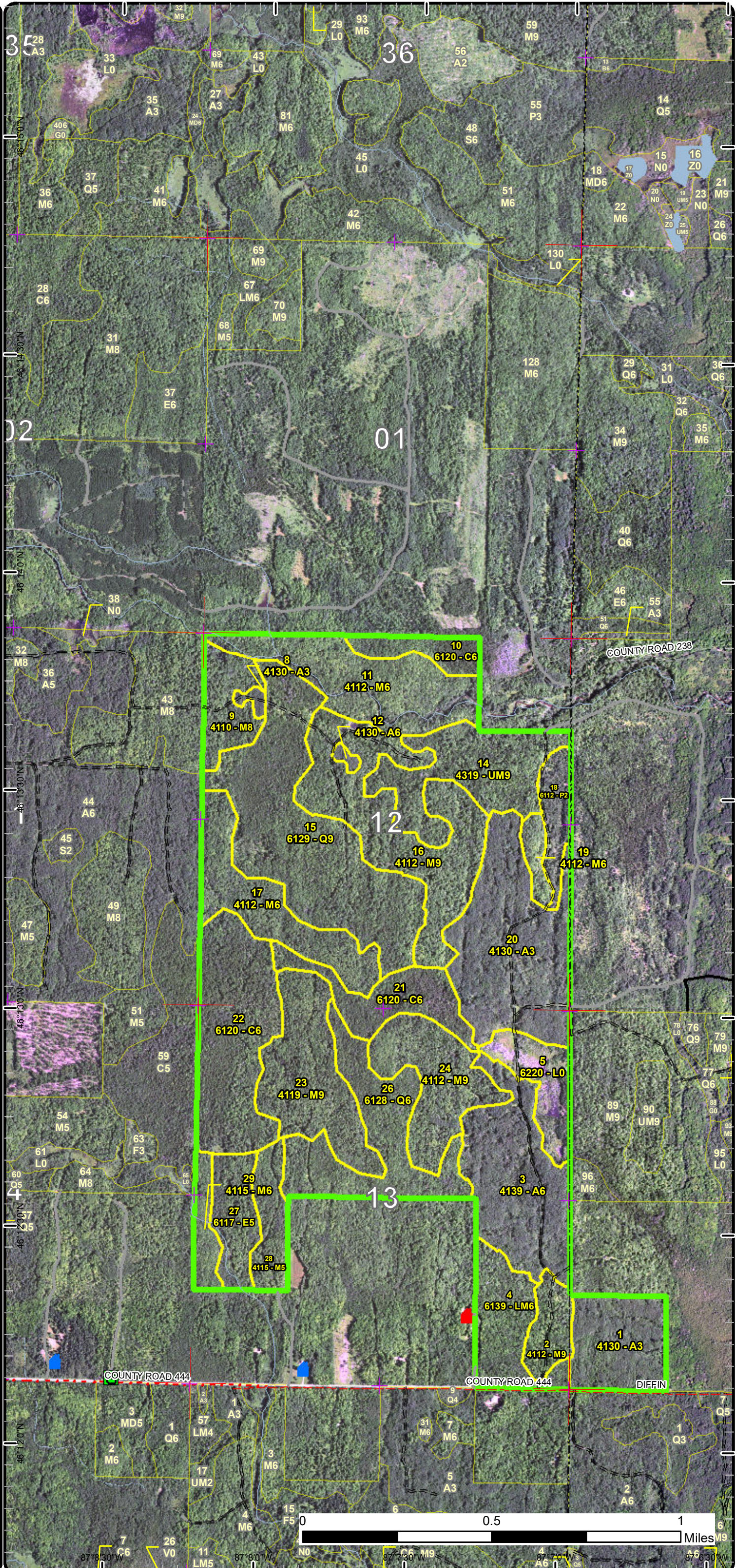
87°8'30"W 87°8'0"W 87°7'30"W 87°7'0"W 87°6'30"W

Stand Boundary Map

Compartment: 8
 T44N, R23W, Sec. 01, 12, 13
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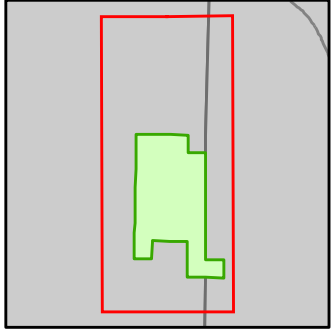
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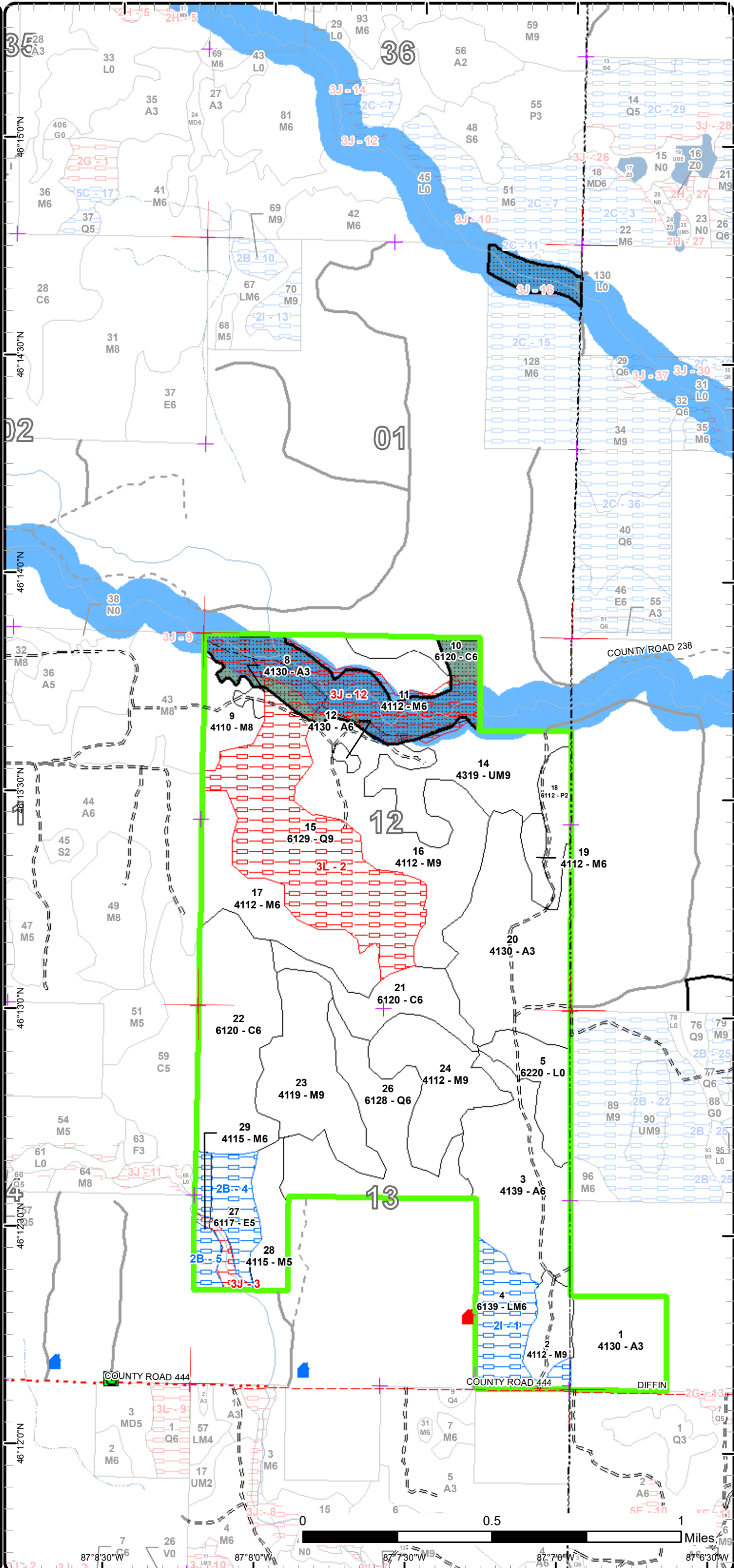
87° 8' 30" W 87° 30' W 87° 30' W 87° 30' W 87° 30' W

Special Conservation Areas

Compartment: 8
 T44N, R23W, Sec. 01, 12, 13
 County: Marquette
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- Perennial River
- Lakes and Rivers
- Cabin
- House
- G Gate
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



Miles

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
 Peter Holodnick: Examiner

Compartment 8

Year of Entry 2024



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	0	45	162	0	0	0	0	0	0	0	0	0	0	0	0	0	206
Cedar	0	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	74	121
Lowland Aspen/Balsam Poplar	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	62	182
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	373	384
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	56
Total	25	0	0	45	178	0	0	0	0	0	13	0	47	120	0	0	0	625	1050



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 8
Total Compartment Acres: 1,053

Commercial Harvest - 151
Harvests with Site Condition - 60
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
Lowland Deciduous	0	0	0	20	0	0	0	0	0	20
Lowland Mixed Forest	36	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	99	0	0	0	0	0	0	0	99
Upland Mixed Forest	0	0	0	56	0	0	0	0	0	56
Total	36	99	0	76	0	0	0	0	0	211

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	211	0	0	0	0	0	0	0	0	211
Next Step	0	0	0	0	0	0	211	0	0	211
Total	211	0	0	0	0	0	211	0	0	422



Stand	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:

4	32008004-Cut	35.9	6139 - Mixed Lowland Forest	Poletimber Well	100	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Leave all Cedar, Hemlock and White Pine. Use patch retention in areas where cedar or hemlock may be more dense, or to exclude excessively wet areas. Look for opportunities to include yellow birch, bigtooth aspen and other lesser occurring species in the red line and retention patches. Winter harvest due to low wet ground.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any mix of conifers or hardwood currently found on site

Regen:

Other WLD: Retain some Yellow Birch (5%) seed source and wildlife food, future cavity trees. In retention look for opportunities to include large fork crowned Bigtooth aspen in the retention- pileated woodpecker, and northern goshawk.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2023

14	32008014-Cut	56.4	4319 - Mixed Upland Forest	Sawtimber Well	122	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all trees except Hemlock, Cedar, and White Pine. Focus green tree marks (seed tree marking) on large diameter Yellow Birch, cherry and other lesser occurring species. Leave 3-10% retention in areas where there is pockets of cedar or wet patches. Cut in the winter only.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable

Regen:

Other WLD: Retain some Yellow Birch (20%) seed source and wildlife food, future cavity trees.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

16	32008016-Cut	86.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 70-90 BA. Focus marking on poorer quality trees. This treatment is meant to focus on releasing better quality crop trees for future growth and to encourage diversity. Leave Cedar, Hemlock, White pine. Favor to keep cherry and yellow birch to maintain species diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	19 32008019-Cut	8.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70-90 BA. Focus marking on poorer quality trees. This treatment is meant to focus on releasing better quality crop trees for future growth and to encourage diversity. Leave Cedar, Hemlock, White Pine. Favor to keep black cherry and yellow birch to maintain species diversity.</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> Any tree species currently in the overstory is acceptable.</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>										
	27 32008027-Cut	19.7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	110	81-110	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
	<p><u>Prescription</u> Cut all but Hemlock, Cedar, and White Pine. When marking seed trees, focus on retaining yellow birch, black cherry and other lesser occurring species to maintain species diversity.</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> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
	29 32008029-Cut	4.5	4115 - Y.Birch, Hemlock NH	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to 70-90 BA. Focus marking on poorer quality trees. This treatment is meant to focus on releasing better quality crop trees for future growth and to encourage diversity. Leave cedar, hemlock, and black cherry. Favor to keep yellow birch. Area could be significantly reduced.</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> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> The area on the south side of the river is going to be very difficult to access. The portion of this stand north of the river is going to have better access.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 211.1
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 8

Peter Holodnick: Examiner

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	2I	3J	3L	ed
206	206	0	0	Aspen					
122	122	0	0	Cedar	0				
16	16	0	0	Lowland Aspen/Balsam Poplar					
182	61	0	120	Lowland Conifers			6	114	
24	0	20	5	Lowland Deciduous	20		5		
36	0	36	0	Lowland Mixed Forest		36			
25	25	0	0	Lowland Shrub					
385	322	12	52	Northern Hardwood	12		52		0
56	55	0	2	Upland Mixed Forest			2		
1,053	807	67	178	Total Forested Acres	31	36	64	114	0
	77%	6%	17%	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	Available	2I: Survey needed	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is mostly hemlock.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cold water stream.							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 8

Peter Holodnick: Examiner

Year of Entry: 2024

4	Available	2B: Unknown if access through adjacent landowner(s) is possible	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need permission to build a road across PVT							
6	Unspecified	Unspecified	0				
Comments:							
10	Unspecified	Unspecified	0				
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High priority trout stream.							



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
32008	Spring Wetlands Riparian Area		Error	77
Comments				
SCA - Riparian corridor - No treatments within corridor of Sucker and Werner creeks to protect stream quality and prevent sedimentation. Wildlife travel corridor also.				



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 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	4130 - Aspen	Sapling Well	40.1	23	Unspecified	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>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>83</td> <td>Sapling</td> <td>4</td> <td>23</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Sapling	1		Balsam Fir	5	Sapling	3		Black Cherry	5	Sapling	3		White Pine	2	Log/Pole	12		Quaking Aspen	83	Sapling	4	23																																																												
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2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.7	95	81-110	N/A	"444 County Line Hardwood" sale #004-04 - cut October, 2005.																																																																																										
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3	4139 - Aspen, Mixed Deciduous	Poletimber Well	71.7	35	Unspecified	N/A	2022: Many trees are still not merchantable. "444 Block" sale #036-84 (unit 3 - 5) - cut Jan-Feb, 1986.																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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4	6139 - Mixed Lowland Forest	Poletimber Well	35.9	100	111-140	N/A	Variable species composition and density. Mainly lowland with some upland. Some small patches of blowdown and dead trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Log/Pole	12		Balsam Poplar	Low	10 - 20 feet	Sapling
Bigtooth Aspen	3	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	10	Pole	7		Black Ash	Medium	>20 feet	Sapling
Balsam Fir	10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	5	Pole/Log	8		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
White Pine	2	XLog/Log	18		Maple (spp.)	Medium	>20 feet	Sapling
Yellow Birch	5	Pole/Log	9					
Black Ash	10	Sapling/Pole	4					
Red Maple	30	Pole/Log	8	100				
Hemlock	10	Log/Pole	10					
Quaking Aspen	3	Log/Pole	10					
Paper Birch	2	Pole	8					

5	6220 - Alder/willow	Nonstocked	25.2		Unspecified	No	2012: Beaver flooding of roadbed and associated timber (cedar snags/dead). Still some timbered edges. Culvert installed 1987 for sale #36-84? Will need to improve site for any future sale work.
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Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
Cattail spp.	Medium	Unspecified	Non-Wood
Tag Alder	High	10 - 20 feet	Tall Shrub
Willow spp.	Medium	10 - 20 feet	Tall Shrub
Balsam Poplar	Medium	>20 feet	Sapling
Balsam Fir	Trace	Variable	Sapling

8	4130 - Aspen	Sapling Well	2.5	23	Unspecified	N/A	T. sale #001-94 "Werner Creek Hardwood Block" (Unit 8) - cut 1998.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2	Sapling	2	
Red Maple	2	Sapling	1	
Balsam Poplar	4	Sapling/Pole	4	
Quaking Aspen	90	Sapling/Pole	4	23
Sugar Maple	2	Sapling	1	

9	4110 - Sugar Maple Association	Sawtimber Medium	23.9	100	51-80	N/A	T. sale #001-94 "Werner Creek Hardwood Block" (Unit 7) - selection cut 1998 and t. sale #035-04 "Creek Corner Hardwood" - select cut November, 2005.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	93	Log/Pole	12	100	Maple (spp.)	High	10 - 20 feet	Sapling
Basswood	5	Log/XLog	16		Ironwood	Low	10 - 20 feet	Sapling
Hemlock	2	Log	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 6120 - Lowland Cedar Poletimber Well 15.1 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	65	Log/Pole	10	110
Hemlock	15	Log/Pole	12	
Red Maple	10	Pole/Log	8	
Black Spruce	5	Log/Pole	8	
Balsam Fir	5	Pole/Log	8	

11 4112 - Maple, Beech, Cherry Association Poletimber Well 63.1 95 81-110 N/A Steeper, rolling terrain, especially near Werners Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Log	14		White Spruce	Low	Variable	Sapling
Quaking Aspen	2	Log	10		Maple (spp.)	Medium	>20 feet	Sapling
Red Maple	20	Pole/Log	8		Maple (spp.)	High	5 - 10 feet	Sapling
Black Cherry	5	Log	12		Balsam Fir	Low	Variable	Sapling
White Spruce	2	Pole/Log	8		Ironwood	Low	10 - 20 feet	Sapling
Balsam Fir	2	Pole	7					
Northern White Cedar	2	Pole	10					
White Pine	2	XLog/Log	20					
Sugar Maple	60	Pole/Log	8	95				
Black Ash	2	Pole	7					

12 4130 - Aspen Poletimber Well 1.9 23 Unspecified N/A T. sale #001-94 "Werner Creek Hardwood Block" (unit 8) - cut 1998.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Sapling/Pole/Log	4	23	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Cherry	10	Sapling	2	23	White Spruce	Low	< 5 feet	Seeding
Balsam Poplar	15	Sapling/Pole	4	23	Balsam Fir	Low	< 5 feet	Seeding

14 4319 - Mixed Upland Forest Sawtimber Well 56.4 122 81-110 N/A "Werner Creek Hardwood Block" #001-94 (Unit 1,4). Low quality red maple - poor sapling/poles. Very subtle changes in topography.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	8		Red Maple	Medium	>20 feet	Sapling
White Spruce	3	Pole/Log	8		White Spruce	Low	< 5 feet	Seeding
Hemlock	35	Log/Pole/XLog	16	122	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Sugar Maple	2	Pole	7		Balsam Fir	High	Variable	Sapling
Black Ash	6	Pole	7					
Quaking Aspen	2	Log/XLog	14					
Yellow Birch	20	Log/XLog	14					
Red Maple	20	Pole/Log	8					
Northern White Cedar	10	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
15	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	120.1	120	111-140	N/A																																																																							
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17	4112 - Maple, Beech, Cherry Association	Poletimber Well	48.4	95	81-110	N/A	T. sale #001-94 "Werner Creek Hardwood Block" (Unit 7) - cut 1998 and t. sale #003-04 "North Branch Deer Creek" (Units 8-10) - cut Feb, 2008. Trace amount of quaking aspen (overmature and dying) and ash noted.																																																																						
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18	6112 - Lowland Aspen	Sapling Medium	16.2	35	Unspecified	N/A	Unit 1 of t. sale #036-84 - cut Feb, 1986. Contains both high and low grounds.																																																																						
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

19 4112 - Maple, Beech, Cherry Association Poletimber Well 8.1 95 81-110 N/A Mainly a small pole stand, except for south end. Part of t. sale #001-94 "Werner Creek Hardwood Block" (unit 2) - cut 1998-99.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	4	Log/Pole	10		Leatherwood	Low	< 5 feet	Tall Shrub
Sugar Maple	48	Pole/Log	7	95	Balsam Fir	Medium	10 - 20 feet	Sapling
Ironwood	2	Pole	8		Red Maple	Low	>20 feet	Sapling
Red Maple	33	Pole/Log	6	95	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Basswood	2	XLog	20		Sugar Maple	Medium	>20 feet	Sapling
Yellow Birch	5	Log/XLog	16					
White Spruce	2	Pole/Log	8					
White Pine	2	XLog	28					
Hemlock	2	Pole/Log	8					

20 4130 - Aspen Sapling Well 90.0 35 Unspecified N/A "444 Block" t. sale #036-84 (unit 1-3) - cut Feb, 1987. Some open areas with S/F, hemlock, WP.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Sapling/Pole	3		Willow spp.	Medium	< 5 feet	Tall Shrub
Balsam Poplar	15	Pole/Sapling	6		Balsam Fir	Low	10 - 20 feet	Sapling
Balsam Fir	3	Pole/Sap/Log	6		White Spruce	Low	Variable	Sapling
Quaking Aspen	70	Pole/Sapling	6	35	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
White Spruce	2	Pole/Log	8		Maple (spp.)	Low	>20 feet	Sapling
					Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

21 6120 - Lowland Cedar Poletimber Well 32.2 110 111-140 N/A Low, wet. West part of stand has more of a mix of tree species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	54	Pole/Log	8	110	Balsam Fir	Low	>20 feet	Sapling
Red Maple	10	Pole/Sap/Log	8		Black Ash	Low	>20 feet	Sapling
Black Ash	4	Pole/Sapling	5					
Yellow Birch	5	Pole/Log	10					
Black Spruce	2	Pole/Sapling	8					
Paper Birch	2	Pole	8					
White Pine	2	Log/XLog	14					
Balsam Poplar	2	Log	12					
Balsam Fir	15	Pole/Sapling	6					
Hemlock	2	Log	12					
White Spruce	2	Pole/Log	10					



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22	6120 - Lowland Cedar	Poletimber Well	74.2	110	Unspecified	N/A	East portion of stand treated as "North Deer Creek Block" #002-94 (Units 1, 3-5) - shelterwood cut 1997 (March - Oct)																																																																														
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23	4119 - Mixed Northern Hardwoods	Sawtimber Well	58.6	100	81-110	N/A	"North Branch Deer Creek" sale #003-04 (Unit 5-7) - cut Jan/Feb, 2008																																																																														
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24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	47.1	100	81-110	N/A	2022: Scattered conifer including large WP, spruce and hemlock. Some cedar on the edges. Mainly higher ground with decent quality trees. "North Branch Deer Creek" sale #003-04 (units 1 - 3) - thinned Jan, 2006. 2012: Black knot present on residual cherry. Both Hemlock patches and individual stems w/in. A stick nest was noted in the W. end of the stand back in 2003. Smaller maple regeneration is heavily browsed.																																																																														
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26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	61.5	110	81-110	N/A	Lower, wetter ground than adjacent stands. 2012: Mix of upland/lowland - soils moderately well-drained to very poorly drained.																																																													
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27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	24.4	110	81-110	N/A	portion cut under "North Deer Creek Block" sale #002-94 (unit 2) - cut Feb, 2007. Low quality hardwood stems.																																																													
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