



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32104

Entry Year 2024

Acreage: 1,276

County Alger

Management Area: Chatham-Autrain Moraines

Stand Examiner: Peter Holodnick

Legal Description:

T45N R22W Section(s) 6, 7, 18

Identified Planning Goals:

Improve the quality of the extensive northern hardwood stands through selective management while maintaining the conifer content and den trees for wildlife.

Soil and topography:

Terrain is mostly level to slightly rolling. Soils range from organic swamps and poorly drained loamy soils to well drained loams. Major soils series include Kalkaska, Munising, Keweenaw.

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

This compartment is bordered on the north by private non-industrial ownership, on the west by private and corporate lands, and on the east and south by State lands. Primary land use is production of commercial forest products and low intensity recreation.

Unique Natural Features:

None identified with MNFI. There is a potential for rare plants of rich mesic forests: Carex assiniboinensis, showy orchis, green spleenwort, Ginseng, Goblin Fern. Potential for RSH in numerous M9 stands. Potential for wood turtle along McMaster's Creek.

Archeological, Historical, and Cultural Features:

None listed with HAL. Evidence of old logging camps.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains McMaster Creek which serves as a tributary to the West Branch Whitefish River. McMaster Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 63.7 °F (cold stream). A 300' buffer is recommended for McMaster 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 104 is found within the Chatham/AuTrain Management Area, on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien Groups and Cambrian Trempealeau Formation subcrop below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located just to the north

of the compartment, and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment from the north is via Sundell Road. Access from the west is restricted by private lands.

Survey Needs:

Recreational Facilities and Opportunities:

No developed facilities but some of the two-tracks are used in the winter by dogsled teams. Otherwise, mainly hunting (deer, grouse) and fishing.

Fire Protection:

Very low risk area.

Additional Compartment Information:

The following reports from the Inventory are attached:

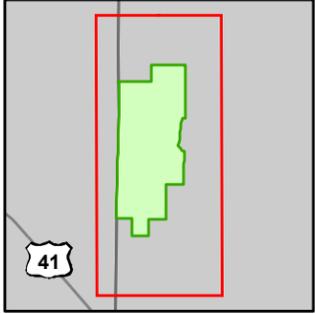
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

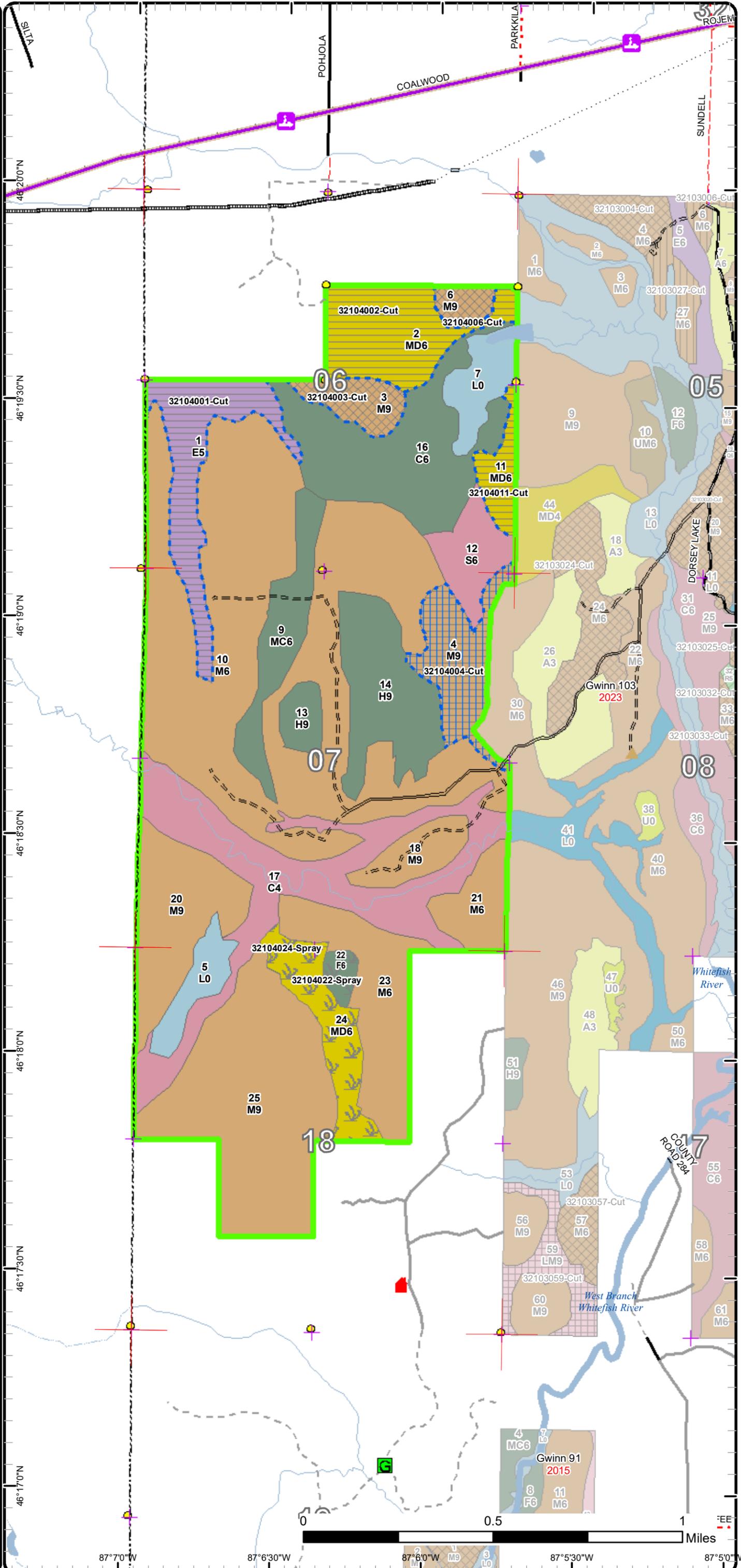
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 104
 T45N, R22W, Sec. 06, 07, 18
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain Moraines
 YOE: 2024
 Acres: 1275.7 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/4/2022
 Map Phase: Web-Post

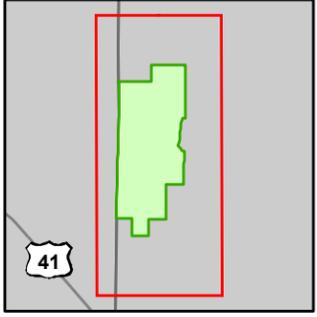


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- ▲ Berms
- Gate
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

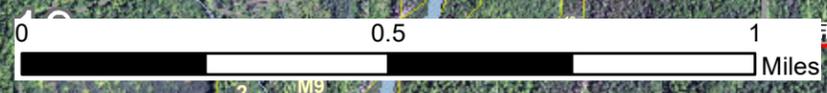
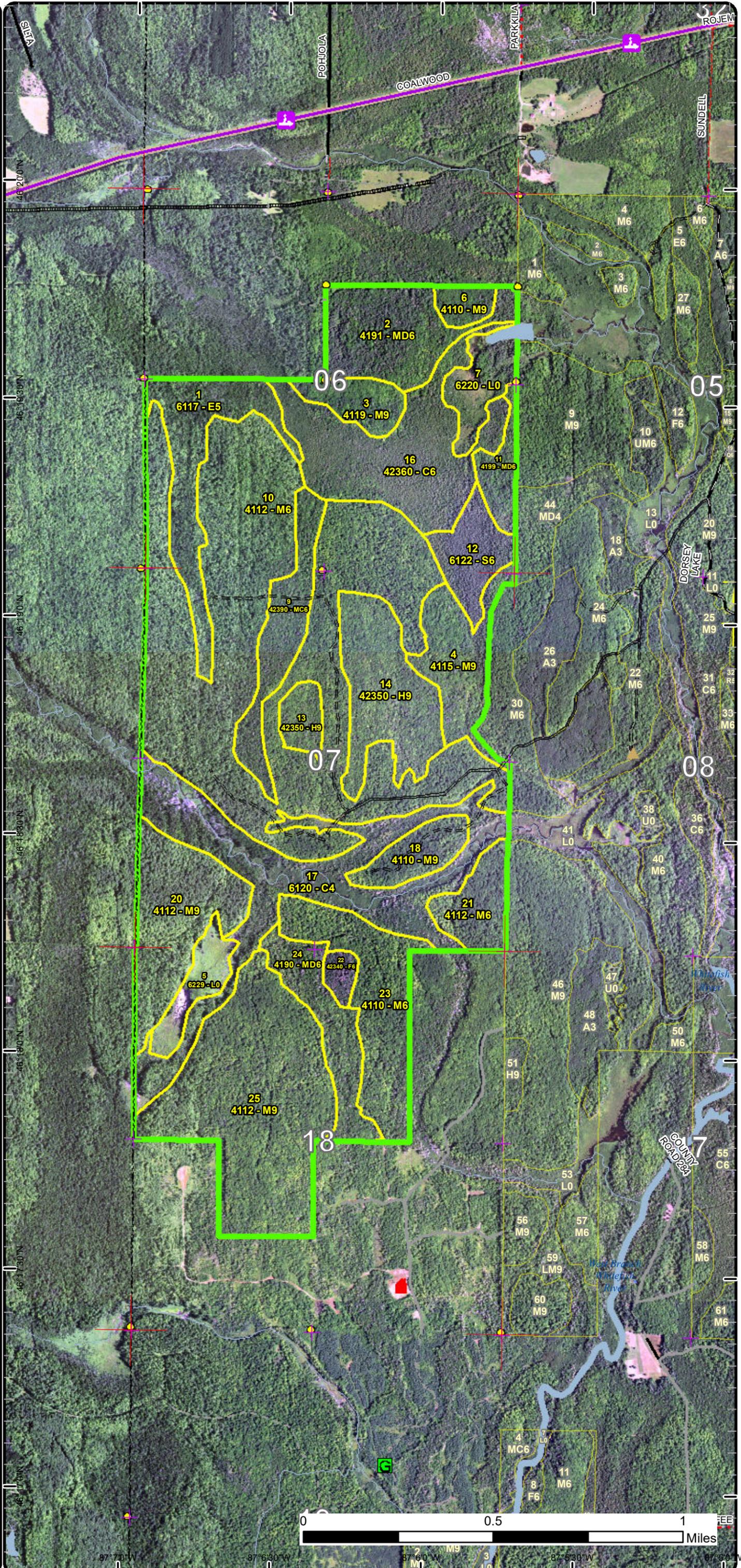


Stand Boundary Map

Compartment: 104
 T45N, R22W, Sec. 06, 07, 18
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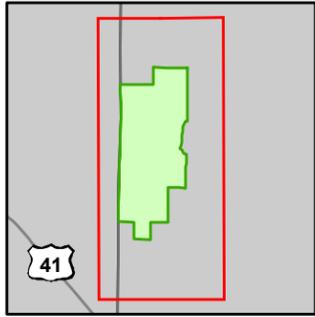
- Miris Corners
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- DNR - Primary Forest Road
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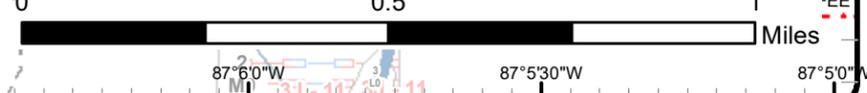
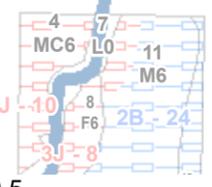
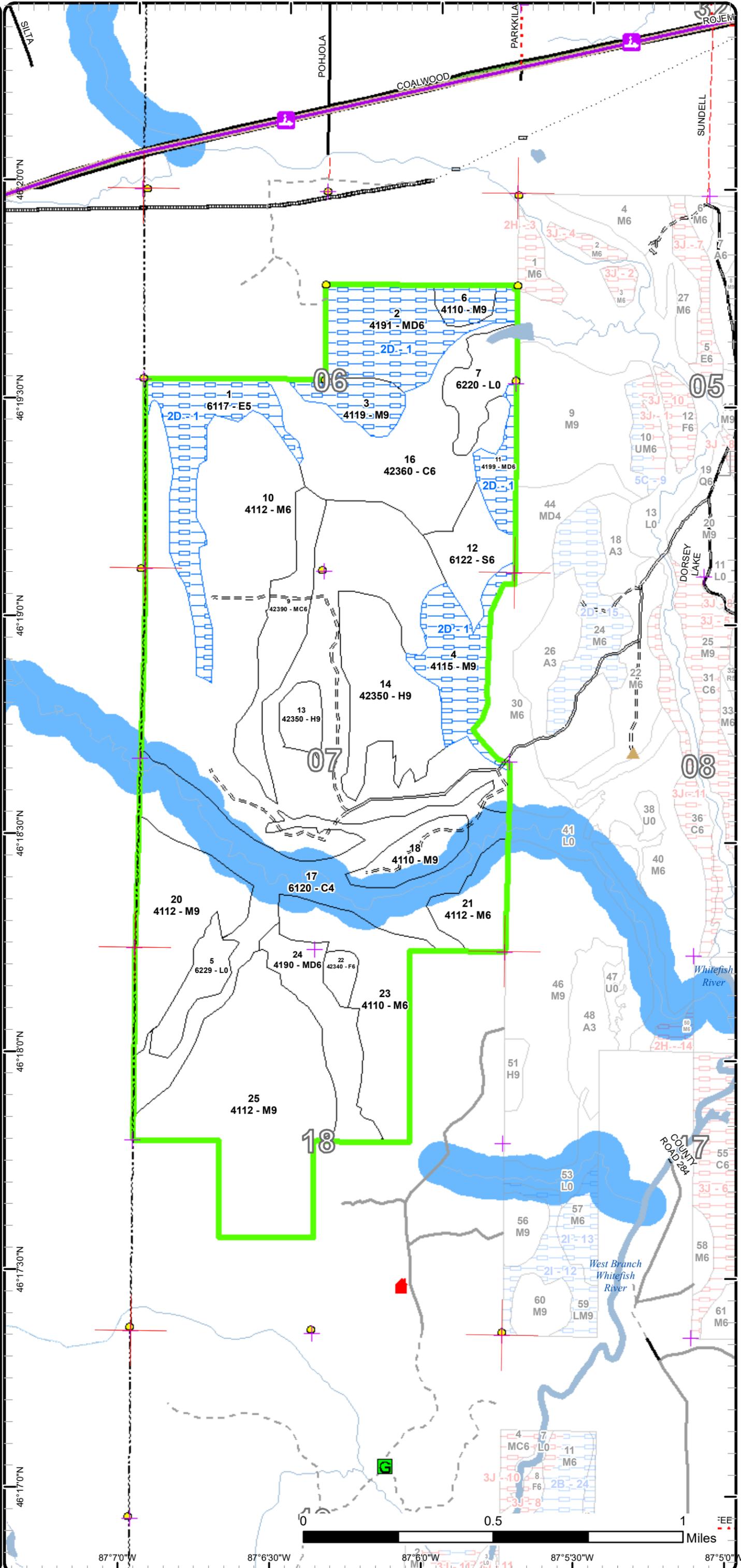
97°20'W 97°15'W 97°10'W 97°05'W 97°00'W 87°55'W 87°50'W 87°45'W 87°40'W 87°35'W 87°30'W

Special Conservation Areas

Compartment: 104
 T45N, R22W, Sec. 06, 07, 18
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain Moraines
 YOE: 2024
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- ▲ Berms
- G Gate
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- Stand Boundaries
- SCA
- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



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
Cedar	0	0	0	0	0	0	0	0	0	0	0	123	90	0	0	0	0	0	213
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	12	60	0	0	0	0	72
Lowland Deciduous	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	54
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Spruce/Fir	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	0	0	0	0	15	0	55	0	37	0	0	0	0	0	0	107
Northern Hardwood	0	0	0	0	0	0	0	0	40	21	363	293	0	0	0	0	0	0	717
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	38
Upland Spruce/Fir	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Total	42	0	0	0	0	0	7	41	40	130	363	453	140	60	0	0	0	0	1276



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 104

Total Compartment Acres: 1,276

Commercial Harvest -
 Harvests with Site Condition - 192
 Next Step Harvest - 43
 Habitat Cut - 43

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	54	0	0	0	0	0	0	0	0	54
Mixed Upland Deciduous	70	0	0	0	0	0	0	0	0	70
Northern Hardwood	0	28	0	40	0	0	0	0	0	68
Total	124	28	0	40	0	0	0	0	0	193

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	193	0	0	0	0	43	0	0	0	236
Next Step	43	0	0	0	0	0	236	0	0	279
Total	236	0	0	0	0	43	236	0	0	515



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:

1	32104001-Cut	53.8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	82	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, Yellow Birch, and Black Cherry. This area could be significantly reduced because of Cedar pockets and lowland Tag Alder areas. Leave 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
2	32104002-Cut	55.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, Yellow Birch, and Black Cherry. This will help promote those mid-tolerant species for diversity. Leave 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
3	32104003-Cut	18.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible. No cut Hemlock and Cedar. Favor to keep Black Cherry and Yellow Birch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
4	32104004-Cut	40.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	73	141-170	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, Yellow Birch, and Black Cherry. This will help promote those mid-tolerant species for diversity. Leave 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
6	32104006-Cut	9.4	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to an average of 80 BA, focusing on improving stand quality and improving regen gaps. Increase species diversity where possible. No cut Hemlock and Cedar. Favor to keep Black Cherry and Yellow Birch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
11	32104011-Cut	15.3	4199 - Other Mixed Upland Deciduous	Poletimber Well	62	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all but Hemlock, Cedar, Yellow Birch, and Black Cherry. This will help promote those mid-tolerant species for diversity. Leave 3-10% retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
22	32104022-Spray	6.7	42340 - Upland Spruce/Fir	Poletimber Well	57	111-140	Pesticide	Hand Application	42340 - Upland Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Spray for Phragmites.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Harvest, Clearcut with Retention</p> <p><u>Acceptable Regen:</u> Any natural native plant species.</p> <p><u>Other Comment:</u> The road system has some patches of phragmites that should be sprayed as to not spread seed. After phragmites management this stand should be harvested.</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
24 32104024-Spray	36.6	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	100	81-110	Pesticide	Hand Application	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Spray for Phragmites</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Harvest, Clearcut with Retention</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any native plant species</p> <p><u>Regen:</u></p> <p><u>Other</u> The road system has some patches of phragmites that should be sprayed as to not spread seed. After phragmites management this stand</p> <p><u>Comment:</u> should be harvested.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 235.8
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 104

Peter Holodnick: Examiner

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	2D
213	213	0	0	Cedar	
72	72	0	0	Hemlock	
54	0	54	0	Lowland Deciduous	54
42	42	0	0	Lowland Shrub	
26	26	0	0	Lowland Spruce/Fir	
107	37	70	0	Mixed Upland Deciduous	70
717	649	68	0	Northern Hardwood	68
38	38	0	0	Upland Conifers	
7	7	0	0	Upland Spruce/Fir	
1,276	1,083	192		Total Forested Acres	192
	85%	15%	0%	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	2D: Portable Bridge Needed (Dept. bridge will be adequate)	192	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
There is a crushed culvert in compartment 103 that needs replacing to get the wood out of C104.							

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 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
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1 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 53.8 82 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling/Pole	5		Green Ash	Low	Variable	Sapling
Northern White Cedar	5	Pole/Sapling	8		Black Spruce	Low	Variable	Sapling
Black Spruce	5	Pole/Log	8		Black Ash	Low	Variable	Sapling
Hemlock	5	Pole	9		Balsam Fir	Low	Variable	Sapling
Yellow Birch	5	Pole/Log	9		Bog Birch	Low	5 - 10 feet	Tall Shrub
Green Ash	25	Log/Pole	10					
Black Ash	10	Pole/Log	8					
Red Maple	40	Log/Pole	10	82				

2 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 55.1 82 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole	8	
White Spruce	10	Log/Pole	10	
Northern White Cedar	3	Pole/Log	8	
Black Cherry	10	Pole/Log	9	
Balsam Fir	15	Pole/Sapling	7	
Red Maple	15	Pole	8	
Bigtooth Aspen	35	Log/Pole	12	82
Hemlock	2	Log/Pole	12	

3 4119 - Mixed Northern Hardwoods Sawtimber Well 18.5 90 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Pole/Log	10	
White Spruce	10	Log/Pole	14	
Sugar Maple	30	Log/Pole/XLog	14	90
Black Spruce	5	Log/Pole	10	
Balsam Fir	5	Pole/Sapling	8	
Red Maple	25	Log/Pole	10	
Basswood	10	Log/Pole	10	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	40.4	73	141-170	N/A																																																																						
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5	6229 - Mixed lowland shrub	Nonstocked	18.4	0	Unspecified	No																																																																						
6	4110 - Sugar Maple Association	Sawtimber Well	9.4	90	111-140	N/A																																																																						
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7	6220 - Alder/willow	Nonstocked	23.6		Unspecified	No																																																																						
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9	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	38.0	112	111-140	N/A																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4112 - Maple, Beech, Cherry Association	Poletimber Well	335.4	97	81-110	N/A	2012: Treated under TS# 32-04-01 by Sappi and closed out in 2009. FTP# W32-681 was for containerized hemlock planting 360 tr/ac- saw hemlock scattered through the area especially near the roads about a foot tall. There was also many scattered through the stand of various sizes I believe have seeded in naturally. Good regeneration of all spp from the TS cut. I am not seeing evidence of browse damage from deer. Some hazel brush, good recruitment of Ce,Hem especially along the edges			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Log/Sap	10		Wild Red Raspberry		Low	< 5 feet	Tall Shrub
Black Cherry		5	Pole/Log/Sap	10		Balsam Fir		Low	Variable	Sapling
Northern White Cedar		5	Pole/Log	8		Sugar Maple		High	Variable	Seeding
Hemlock		5	Log/Pole	14		Yellow Birch		Low	Variable	Sapling
Sugar Maple		70	Pole/Log/Sap	9	97	Red Maple		Medium	Variable	Sapling
Yellow Birch		5	Log/Pole	12		Black Cherry		Low	Variable	Sapling

11	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.3	62	81-110	N/A	Age asp cored but hard 2 tell, at least over 70- RM was cored at 52.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Pole/Log	10		Black Spruce		Low	Variable	Sapling
Black Spruce		5	Pole/Log	10		Red Maple		Low	Variable	Sapling
Red Maple		50	Sapling/Pole	5	62	Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub
Balsam Fir		5	Pole	9		Balsam Fir		Low	Variable	Sapling
White Spruce		5	Pole/Log	10		Willow spp.		Low	< 5 feet	Tall Shrub
Black Cherry		5	Pole	10						
Quaking Aspen		20	Pole/Log	10						

12	6122 - Black Spruce	Poletimber Well	26.3	66	1-50	N/A	Good condition, nice std.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		8	Pole/Sapling	7		Tag Alder		Low	5 - 10 feet	Tall Shrub
White Pine		2	Pole/Log	9		Bog Birch		Low	< 5 feet	Tall Shrub
Black Spruce		90	Pole/Sapling	6	66					

13	42350 - Upland Hemlock	Sawtimber Well	11.8	112	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Log	9		Green Ash		Low	Variable	Sapling
Yellow Birch		15	Log/Pole/XLog	12		Red Maple		Low	Variable	Pole
Sugar Maple		10	Log/Pole	12		Black Ash		Low	Variable	Sapling
Black Cherry		5	Pole/Log	9		Sugar Maple		Low	Variable	Sapling
Northern White Cedar		5	Log/Pole	10		American Elm		Low	Variable	Sapling
Hemlock		60	Log/Pole/XLog	12	112	Hemlock		Low	Variable	Sapling

14	42350 - Upland Hemlock	Sawtimber Well	59.8	122	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		2	Log/Pole	12		Green Ash		Low	Variable	Pole
Yellow Birch		15	Log/Pole/XLog	12		Black Ash		Medium	Variable	Sapling
Green Ash		2	Pole/Log	10		American Elm		Low	Variable	Sapling
Black Cherry		3	Pole/Log	10		Hemlock		Low	Variable	Sapling
Northern White Cedar		15	Log/Pole	10		Sugar Maple		Low	Variable	Sapling
Hemlock		63	Log/Pole/XLog	12	122	Red Maple		Low	Variable	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
16	42360 - Upland Cedar	Poletimber Well	90.2	112	81-110	N/A																					
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17	6120 - Lowland Cedar	Poletimber Poor	122.8	100	51-80	N/A																																																																									
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20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	61.9	100	51-80	N/A	2012: Cut under #036-04-02 - thru Gary Gazan. Sale completed in 2005 Great regeneration, mainly hard maple with some RM, YB, Asp, along the edges of the wetter ground.																																																																								
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21	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.6	100	81-110	N/A	"McMaster Creek Hardwoods" #029-93-01 - completed 1997. Trace amounts of elm, paper birch, yellow birch, basswood.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 42340 - Upland Spruce/Fir Poletimber Well 6.7 57 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Balsam Fir	10	Pole/Log/Sap	10	
White Pine	5	Log/XLog	16	
Northern White Cedar	5	Pole/Log/XLog	8	
Hemlock	5	Log/XLog	16	
White Spruce	50	Log/Pole/XLog	12	57
Jack Pine	5	Pole	9	
Black Cherry	10	Pole	8	

23 4110 - Sugar Maple Association Poletimber Well 62.7 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/XLog	16	100
Red Maple	10	Log/XLog	16	
White Pine	5	Log	18	
Yellow Birch	5	Log/Pole	12	
Black Cherry	20	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	10 - 20 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

(11-20-20 PH) McMaster Creek South 32-016-14 closed. Thinning. 2012: Cut completed in 1998 036-094-01. Small sap WP in the understory with fir 6-4" dbh. Most maple are large in diameter with good regen 5-15' tall. There is more diversity in and around the wet edges. Couple plots it appears that there is mortality in the maple.

24 4190 - Mixed Upland Deciduous with Cedar Poletimber Well 36.6 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log/Sap	10	
Green Ash	5	Pole/Sapling	9	
Yellow Birch	10	Log/Pole	12	
Beech	5	Sapling/Pole	4	
Hemlock	10	Pole	9	
Black Spruce	10	Pole	7	
Black Ash	5	Pole/Sapling	7	
Northern White Cedar	20	Pole	9	100
Red Maple	15	Pole/Sapling	9	
Black Cherry	10	Pole/Sapling	9	

25 4112 - Maple, Beech, Cherry Association Sawtimber Well 143.6 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole/XLog	12	
Black Cherry	10	Log/Pole/XLog	12	
Red Oak	5	XLog/Log	18	
Sugar Maple	60	Log/Pole/XLog	14	100
Hemlock	5	Log/XLog	16	
Northern White Cedar	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Sugar Maple	Full	10 - 20 feet	Sapling

(11-20-20 PH) McMaster Creek South #32-016-14 closed. Thinning. 2012: Cut completed in 1998 under contract 036-094-01. Never seen such large Blk cherry - lots of log size trees not many in the 10" category and tons of regen from last cut 5-25' tall through the stand. Better spp diversity in the "wet" areas including irwd, yb, fir and spruce. Saw a couple 5' oak - was there plantings?