



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41171

Entry Year 2027

Acreage: 1,202

County: Alger

Management Area: Grand Marais Moraine Complex

Stand Examiner: Mario Molin

Legal Description:

T47N R17W Sections 10 and 15

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography in this compartment is hilly to flat with some low areas. The main soils in the compartment are; Ogemaw Sandy Loam with fair to good drainage and fair natural fertility, Munising Loam with good drainage and moderate natural fertility and Kalkaska Loamy Sand with good drainage and low to fair natural fertility. The entire compartment lies within the Munising Moraine Land Type Association.

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

Ownership within the compartment is all State land except for the town of Melstrand on the south end. The surrounding land has broken ownership of State lands, CFR lands and private ownership. State land is heavily used by hunters while the roads are heavily used by those looking for fishing sites and access into PRNL properties to the northwest. The residents are a mix of year-round and seasonal.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Treatments that will be conducted around any water areas will follow all BMP regulations and those concerns addressed from other divisions.

Watershed and Fisheries Considerations:

Fisheries Concerns: This compartment has very little surface water within its boundaries. There is a small, disconnected lake in the south-west corner of the compartment and best management practices (BMP's) should be adhered to when working in proximity to this surface water.

Wildlife Habitat Considerations:

This compartment is located immediately north, east, and west of Melstrand. The pre-settlement forest, as recorded by General Land Office surveyors appears to have been dominated by sugar maple, yellow birch, and beech. Hemlock and balsam fir were also common components. Red maple, ironwood, and elm were recorded as minor components of the forest. Currently the northern hardwoods appear to have a stronger component of black cherry than during the pre-settlement days. Aspen is also a more significant part of the landscape than it was circa 1850. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. Wildlife habitat objectives include promoting diversity within the hardwoods, and maintaining the aspen component in the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is in Section 15 or just to the east and there should be good potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to the compartment is good with use of H-58 and County Road 639, Chapel Lake Road. There is also a good forest road system through out the compartment from past timber activities.

Survey Needs:

None

Recreational Facilities and Opportunities:

This compartment is used regularly by hunters. There is also a good amount of traffic on the two main roads for those heading into the PRNL and those looking for fishing opportunities.

Fire Protection:

Fire response to the area will be good. The Shingleton station is about 20 minutes from the compartment via H-15 and H-58. The current road system is good enough for fire operations; however the timber types present are not of high fire potential. Urban interface problems could occur with those homes or cabins around the compartment, however the majority of the timber is northern hardwoods.

Additional Compartment Information:

The following reports from the Inventory are attached:

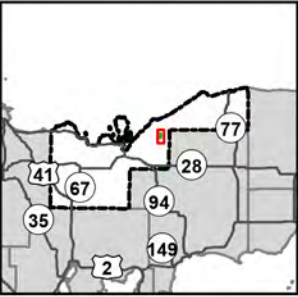
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

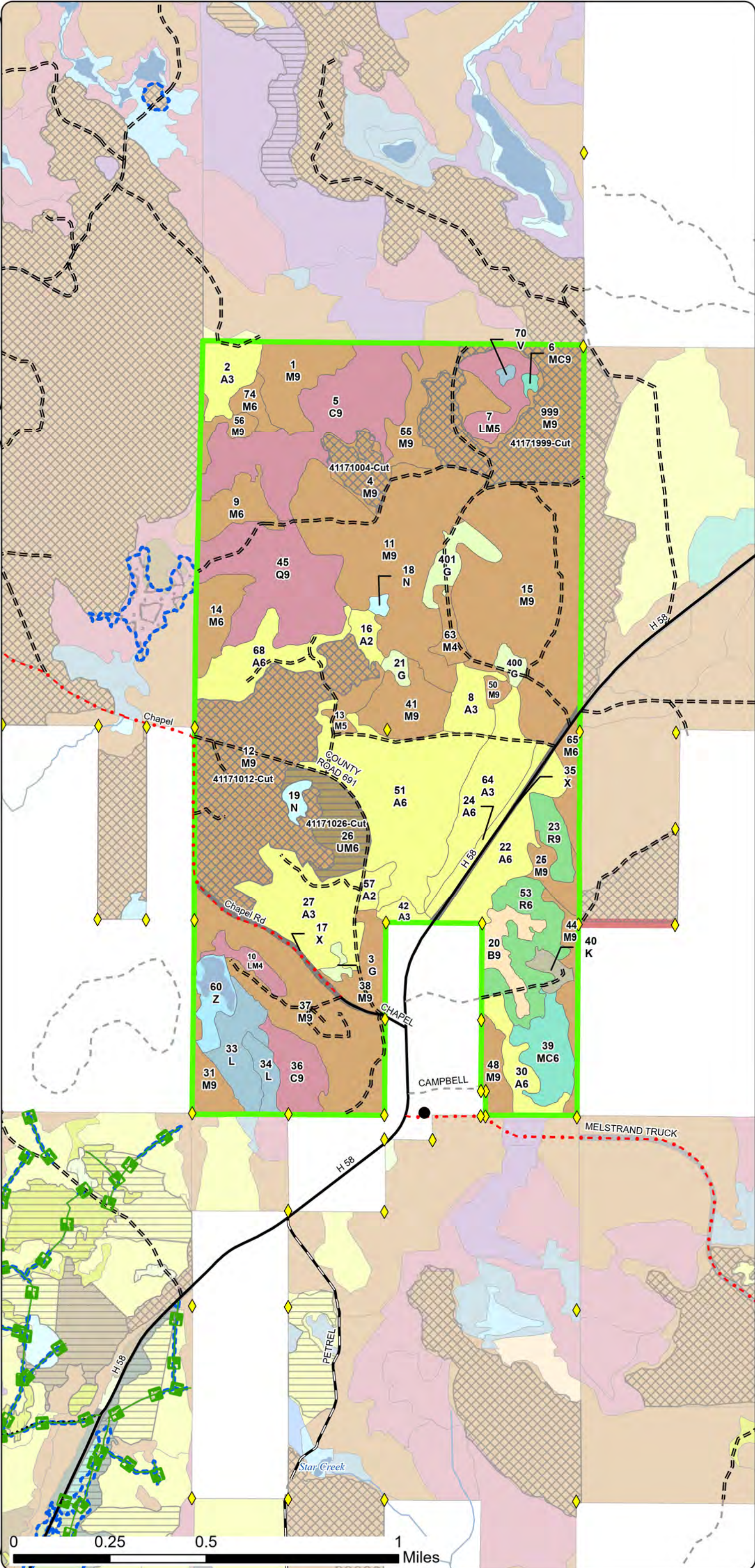
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 41171
T47N,R17W, Sec: 10, 15
County: Alger
Unit: Shingleton
Mgmt. Area: Grand Marais Moraine Complex
YOE: 2027
Acres: 1,202.41 GIS Calculated
Examiner: Mario Molin
Date Exported: 07/30/2025
Map Phase: Web Post

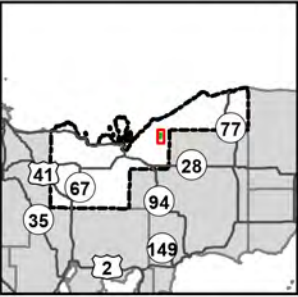


- Survey Grade Corners
- City
- Designated Hunter Walking Trails
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Clearcut
- Selection
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 421 - Planted Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 720 - Exposed Rock

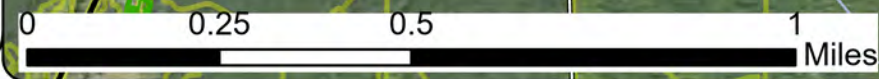
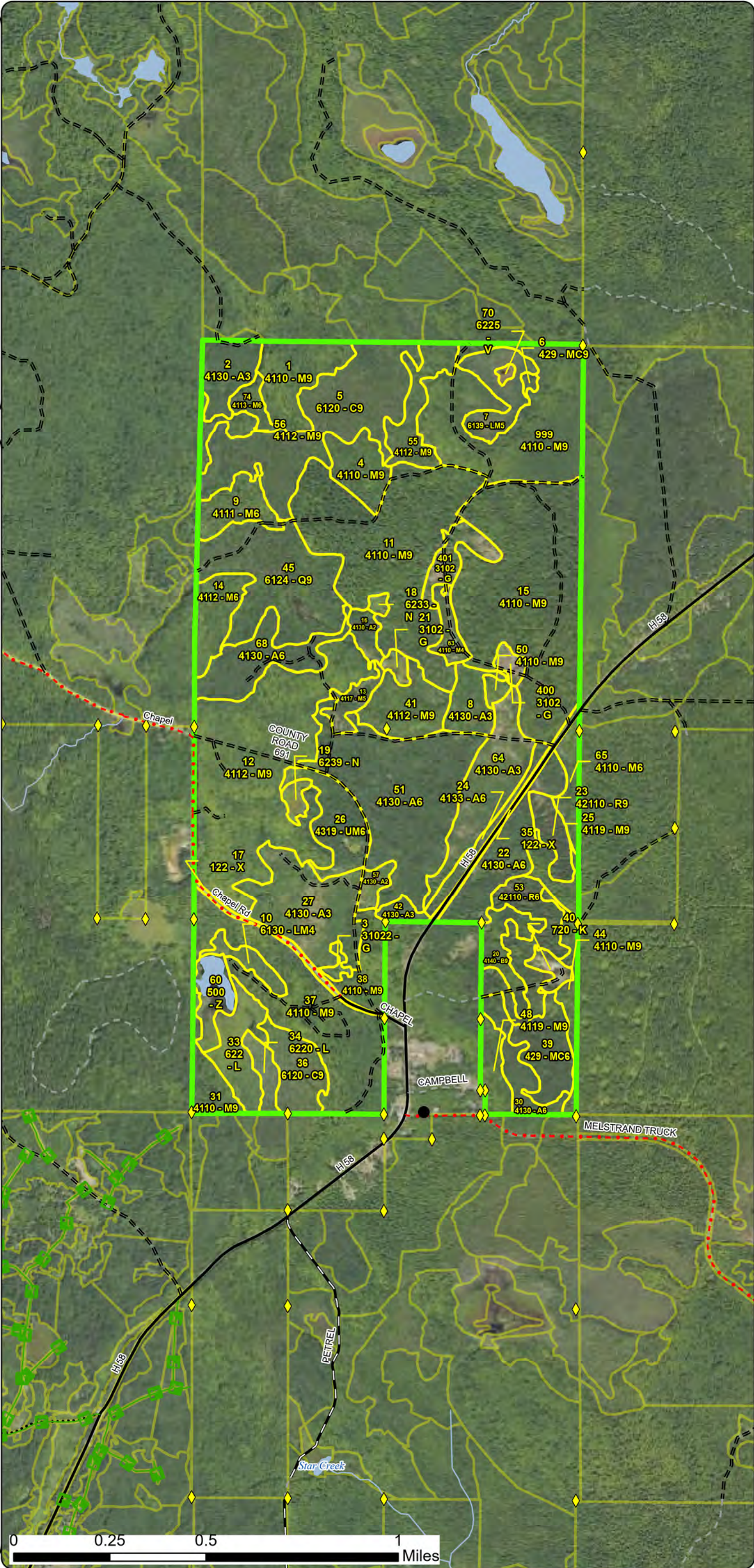


Stand Boundary
Map

Compartment: 41171
T47N,R17W, Sec: 10, 15
County: Alger
Unit: Shingleton
Mgmt. Area: Grand Marais Moraine
Complex
YOE: 2027
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Map Phase: Web Post

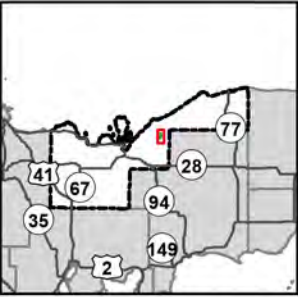


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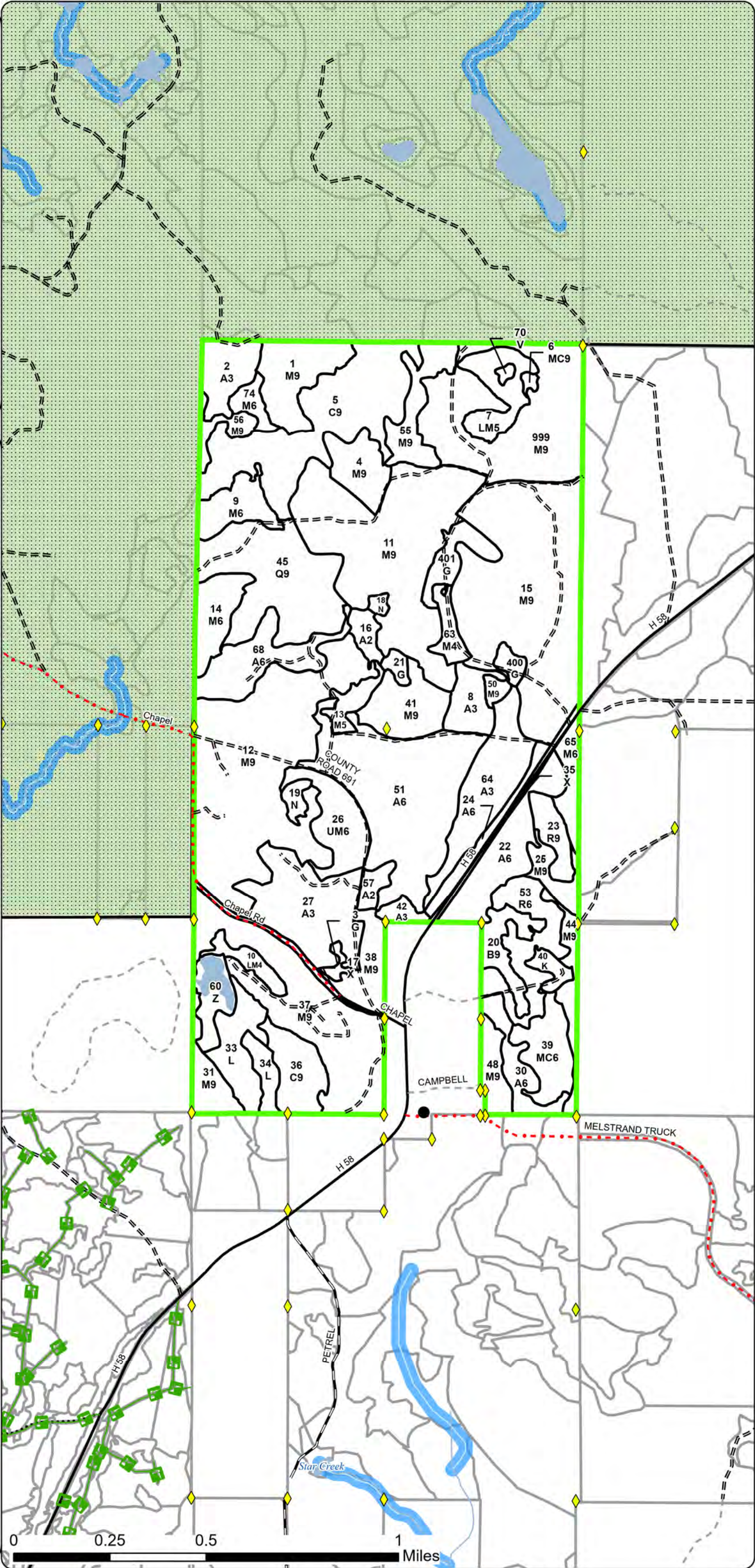


Special Conservation Areas
& Site Conditions Map

Compartment: 41171
T47N,R17W, Sec: 10, 15
County: Alger
Unit: Shingleton
Mgmt. Area: Grand Marais Moraine
Complex
YOE: 2027
Acres: 1,202.41 GIS Calculated
Examiner: Mario Molin
Date Exported: 07/30/2025
Map Phase: Web Post



- Survey Grade Corners
- City
- Designated Hunter Walking Trails
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



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	87	19	5	63	85	0	0	0	0	0	0	0	0	0	0	0	0	257
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	0	0	0	81
Exposed Rock	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	53
Lowland Mixed Forest	0	0	0	0	0	0	0	6	0	0	16	0	0	0	0	0	0	0	22
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	34	0	0	14	62	0	0	0	0	0	520	630
Paper Birch	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	25	0	9	0	0	0	0	0	0	0	0	0	0	34
Upland Conifers	0	0	0	0	0	0	0	18	0	0	0	0	0	0	1	0	0	0	19
Upland Mixed Forest	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	74	87	19	5	63	110	20	79	0	53	30	62	0	81	1	0	0	520	1202



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 171
Total Compartment Acres: 1,202

Commercial Harvest - 358
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 20

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	180	0	0	0	0	0	0	0	180
Upland Mixed Forest		20	0	0	0	0	0	0	0	0	20
	Total	20	180	0	0	0	0	0	0	0	199

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		199	0	0	0	0	0	0	0	0	199
Next Step		0	0	0	0	0	0	199	0	0	199
	Total	199	0	0	0	0	0	199	0	0	398



S t a n d	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:

12	41171012-Cut	108.6	4112 - Maple, Beech, Cherry Association	9	95	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Follow the Complete Marker mark down to 85BA <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Hardwoods <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
26	41171026-Cut	19.6	4319 - Mixed Upland Forest	6	51	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	Yes
<u>Prescription</u> clearcut with retentioninclude drumming log spec <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> any mix of trees previously on site <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Approved Treatments:

4	41171004-Cut	12.5	4110 - Sugar Maple Association	9	95	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Mark down to 85BA. The northeast has steep hills, remember to mark for operations on slopes, some slopes may be too steep to machine <u>Specs:</u> harvest. Promote species diversity when possible. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> northern Hardwoods <u>Regen:</u> <u>Other</u> This stand already marked as part of TS: 41-038-17, 1/2 of unit 2 of sale was uncut. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2022											



Standard

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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999 41171999-Cut	58.5	4110 - Sugar Maple Association	9	91	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Mark down to 85BA. The northeast has steep hills, remember to mark for operations on slopes, some slopes may be too steep to machine</p> <p><u>Specs:</u> harvest.</p> <p>Promote species diversity when possible.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Northern 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> 10/01/2022</p>										

Total Treatment 199.2
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Conditions		
				2G	5D	5E
222	218	0	4	Aspen		4
1	1	0	0	Bog		
81	81	0	0	Cedar		
4	4	0	0	Exposed Rock		
19	19	0	0	Herbaceous Openland		
53	53	0	0	Lowland Conifers		
22	6	0	16	Lowland Mixed Forest	16	
24	24	0	0	Lowland Shrub		
5	5	0	0	Marsh		
616	609	0	7	Northern Hardwood	6	1
12	12	0	0	Paper Birch		
14	9	0	5	Red Pine		5
19	19	0	0	Upland Conifers		
20	20	0	0	Upland Mixed Forest		
9	9	0	0	Urban		
12	12	0	0	Water		
1,134	1,102		32	Total Forested Acres	6	16
	97%		3%	Relative Percent		10

*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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: An isolated stand that is also very wet, too small to to put up and sell as a winter harvest.								
3	Unavailable		5D: Unproductive forest land	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



13	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

26	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

27	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

28	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

30	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

32	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Report 4 – Site Conditions



34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!
Year of Entry:

Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
13	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	6.7	40	1-50	N/A																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>30</td><td>Seedling</td><td>5</td><td></td><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>40</td><td>Seedling</td><td>5</td><td>40</td><td>White Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black Cherry</td><td>30</td><td>Seedling</td><td>5</td><td></td><td>Black Cherry</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	30	Seedling	5		Red Maple	Low	10 - 20 feet	10 - 20 feet	White Pine	40	Seedling	5	40	White Pine	Low	10 - 20 feet	10 - 20 feet	Black Cherry	30	Seedling	5		Black Cherry	Low	10 - 20 feet	10 - 20 feet																		
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Black Cherry	30	Seedling	5		Black Cherry	Low	10 - 20 feet	10 - 20 feet																																																					
14	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.8	75	81-110	N/A																																																							
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15	4110 - Sugar Maple Association	Sawtimber Well	107.6	95	51-80	N/A	2015: Small scattered pockets of completely healthy looking beech in the stand, most of the beech is dead or dying. No reason to enter early for salvage purposes. TS: 41-038-17 units 5-7																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>90</td><td></td><td>12</td><td>95</td><td>Sugar Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>5</td><td></td><td>12</td><td></td><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Basswood</td><td>2</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Black Cherry</td><td>3</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	90		12	95	Sugar Maple	Medium	Variable	Variable	Beech	5		12		Beech	Low	Variable	Variable	Basswood	2		12						Black Cherry	3		12														
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Black Cherry	3		12																																																										
16	4130 - Aspen	Sapling Medium	5.3	27	1-50	N/A	2015: Wetland of some kind, lots of lilies and other flowers. Appears to be a pair of sandhill cranes using the area.																																																						
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17	122 - Road/Parking Lot	None	4.2			No																																																							
18	6233 - Wet Meadow	None	1.5			No	2015: Wetland of some kind, lots of lilies and other flowers. Appears to be a pair of sandhill cranes using the area.																																																						
19	6239 - Mixed Emergent Wetland	None	3.5			No	2015: When harvesting adjacent to the stand special care should be taken to keep equipment out of the stand.																																																						
20	4140 - Other Upland Deciduous	Sawtimber Well	12.0	64	81-110	N/A																																																							
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					Paper Birch	Low	10 - 20 feet	10 - 20 feet																																																					
					Black Cherry	Low	10 - 20 feet	10 - 20 feet																																																					
21	3102 - Grass	None	2.8			No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
22	4130 - Aspen	Poletimber Well	26.0	38	81-110	N/A																																																							
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23	42110 - Planted Red Pine	Sawtimber Well	9.2	64	81-110	N/A	Melstrand Mixed Timber: 41-037-17-01																																																						
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24	4133 - Aspen, Mixed Pine	Poletimber Well	8.1	45	51-80	N/A	[2/3/03] Spruce were planted as a wind break under FTP C41-811 in 2000, and are currently healthy. No further monitoring necessary. 2015: Scotch pine has been found in the stand.																																																						
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25	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.1	64	81-110	N/A	2015: Very good birch regeneration.																																																						
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26	4319 - Mixed Upland Forest	Poletimber Well	19.6	51	81-110	N/A	2015: This is another odd aspen type cut, wait until fir is at rotation/ in decline, this will give the time needed for the aspen to be at a better merchantable size and clear cut all species.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.0	91	81-110	N/A	2015: North end includes a small lowland piece with hemlock.																																							
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56	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.0	60	111-140	N/A																																								
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57	4130 - Aspen	Sapling Medium	4.5	6	Immature	N/A																																								
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60	500 - Water	None	11.5			No	2015: Pond with some flooding in the past, southwest has numerous snags in it.																																							
63	4110 - Sugar Maple Association	Poletimber Poor	6.6	60	1-50	N/A	2015: Old grass opening that is filling in.																																							
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64	4130 - Aspen	Sapling Well	30.9	4	Immature	N/A	2015: Small area was planted with red pine.																																							
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65	4110 - Sugar Maple Association	Poletimber Well	9.0	65	51-80	N/A	OPIC - FMD: Scattered large white spruce, red maple, aspen and cherry brush all about 15-20 feet tall. There are still some 1/10 acre pockets of open area.																																							
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