



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41168

Entry Year 2025

Acreage: 834

County Alger

Management Area: Grand Marais Moraine Complex

Stand Examiner: Scott Kentner

Legal Description:

T48N R17W Sections 24-26

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

The main soil types found in this compartment are Saugatuck Sand, Emmet Loamy Sands, Munising Sandy Loam and Kalkaska loamy Sand. The sands are listed as being naturally low in fertility while the loams are moderately good in fertility. The terrain is mainly rolling to hilly the steeper hills keeping run off confined or the flow from natural springs.

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

The entire compartment is within the Pictured Rocks National Lake Shore Boundary. Pictured Rocks National Lake Shore Boundary is to the North and East with broken ownerships of private and Forest Land Group lands to the South and West.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This compartment falls entirely within the Outwash Transition LTA and the Pictured Rocks Buffer Management Area.

Watershed and Fisheries Considerations:

COMPARTMENT 168

ELSMU-Cory Kovacs

This compartment is located in the Pictured Rocks National Lakeshore and contains Spray Creek, a coldwater designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 57.5°F (cold stream). This stream contains native brook trout and was at one time stocked with arctic grayling as part of a re-introduction program in the early 1990's. Also present in the eastern section of the compartment is Little Beaver Creek. Little Beaver Creek is a coldwater designated trout stream (predicted mean July temperature of 54.7°F) with groundwater influence supporting native brook trout. The last fisheries survey in 1983 found native brook trout and we need to assume that they are still intact. Aspen regeneration is not expected in the treatment areas, but upholding the integrity of the stream is important for the native brook trout populations. For areas not susceptible to aspen regeneration, a minimum of 100-ft, plus 5 ft per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located in the Grand Marais Sandy End Moraine and Outwash Sub-subsection. Early surveyors recorded sugar maple and beech as the most prevalent tree species in this area. Hemlock, yellow birch, balsam fir, and mountain maple were slightly less important. Red maple was recorded in minor amounts. Lowlands at that time contained cedar, balsam fir, and spruce.

Current vegetation appears similar in species composition in the lowlands, but has a lower amount of hemlock in the northern hardwoods as compared to pre-settlement times.

Wildlife habitat objectives include protecting the spray creek corridor, promoting structural and species diversity within the northern hardwoods, and maintaining small forest openings.

Wildlife species of special interest potentially utilizing this compartment include goshawks and scarlet tanagers.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Munising Formations subcrop below the glacial drift. The Trempealeau could be used for stone. The nearest gravel pit is several miles to the south, but there may be some potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access is gained from H-58 a ½ mile from the SE corner of the compartment. There are many two-tracks and skid trails from previous logging operations in the area.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

The timber types are mainly hardwood and lowland conifers reducing the chances of any large wildland fire occurrences.

Additional Compartment Information:

The following reports from the Inventory are attached:

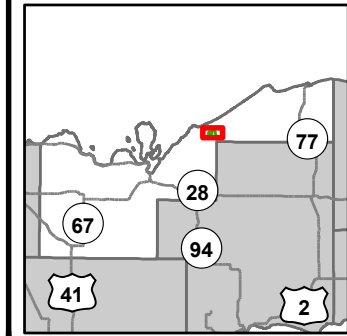
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

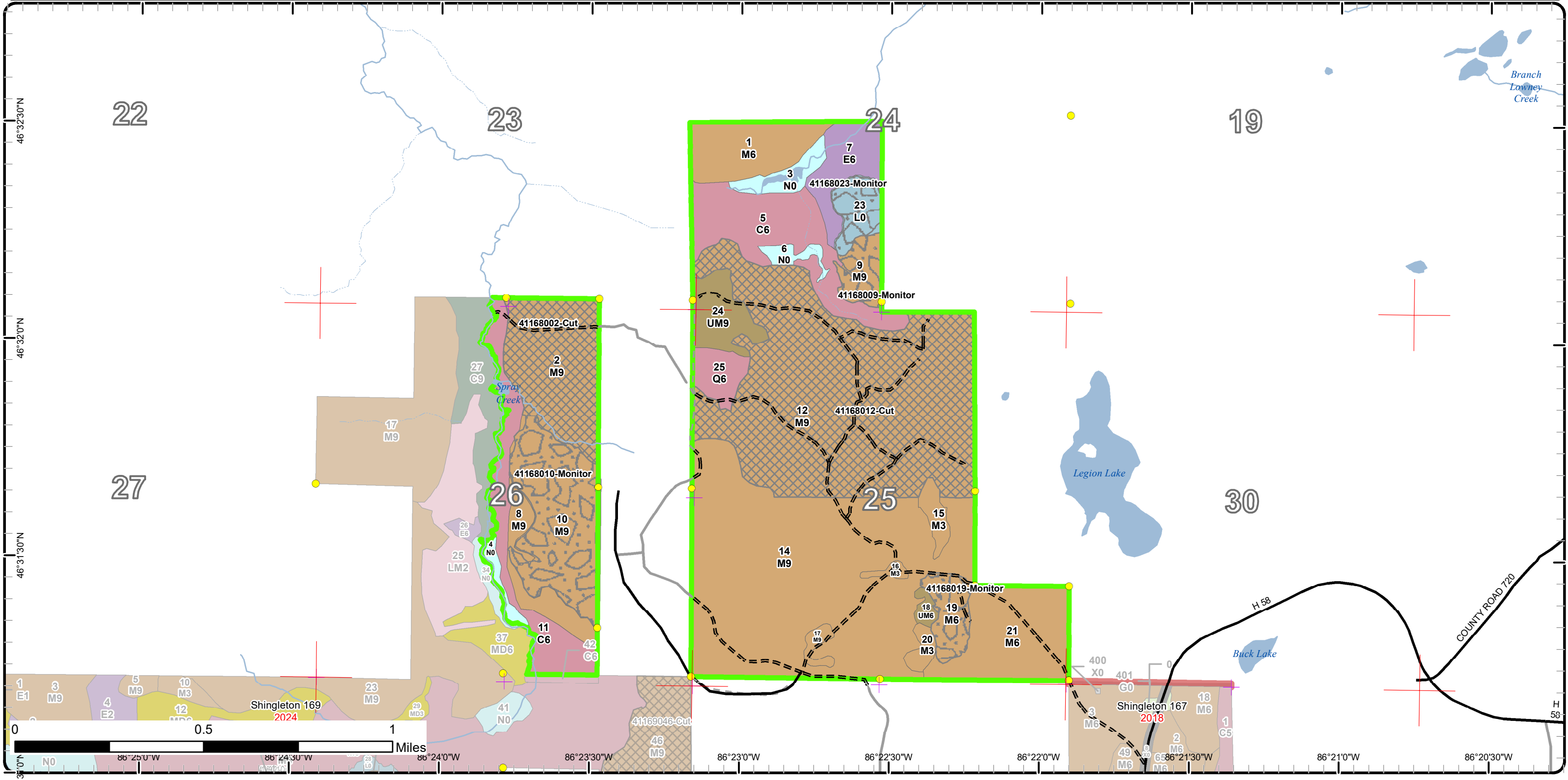
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 168
 T48N, R17W, Sec: 24-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2025
 Acres: 834.5 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 8/15/2023
 Map Phase: Review

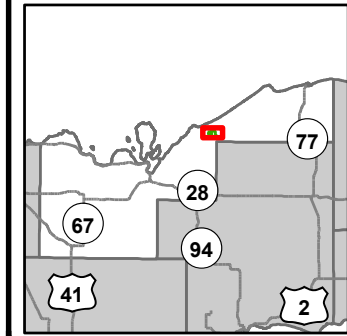


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland

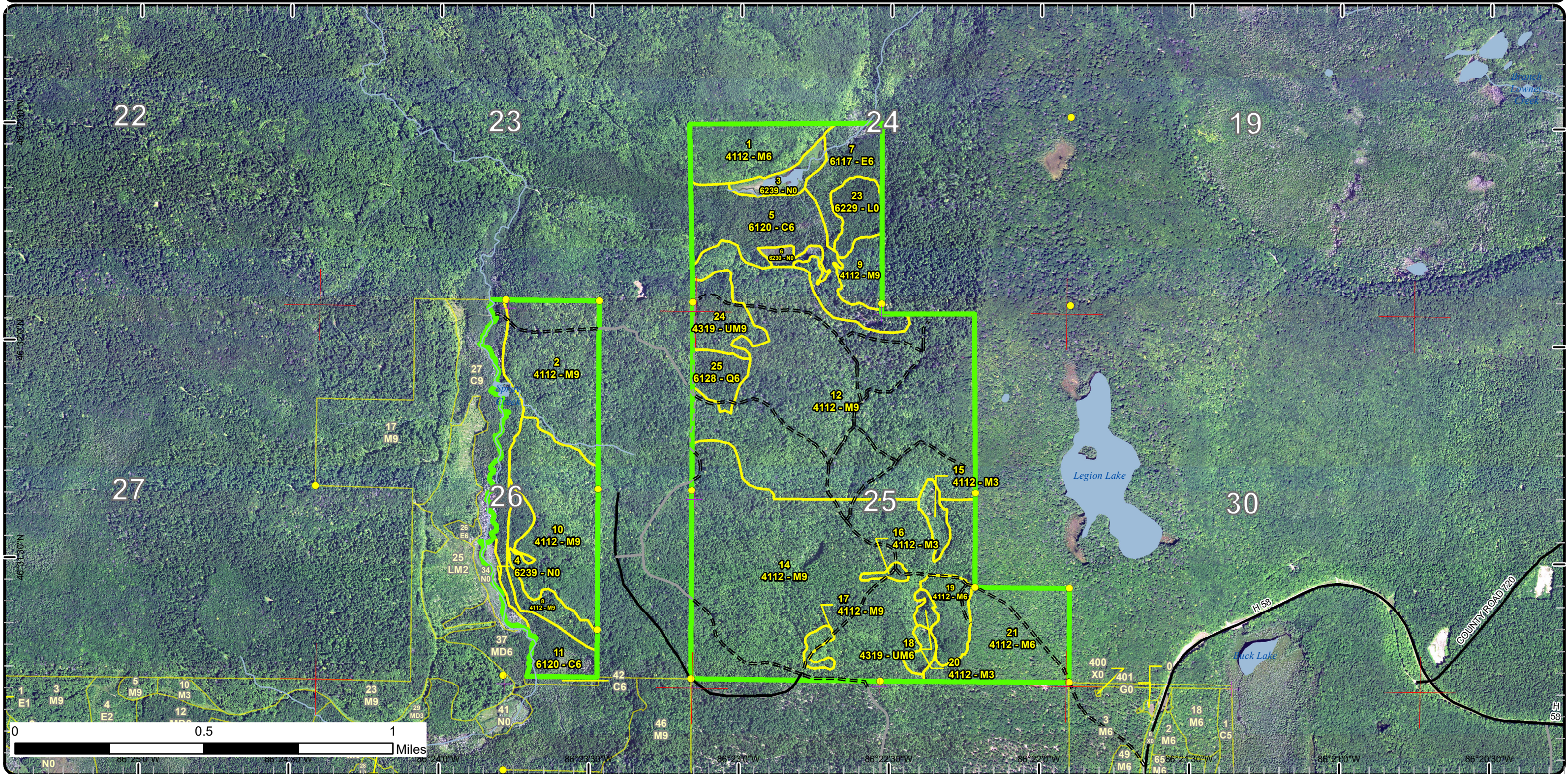


Stand Boundary Map

Compartment: 168
 T48N, R17W, Sec: 24-26
 County: Alger
 Unit: Shingleton
 Mgmt Area: Grand Marais
 Moraine Complex
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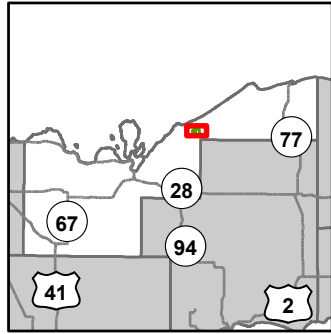


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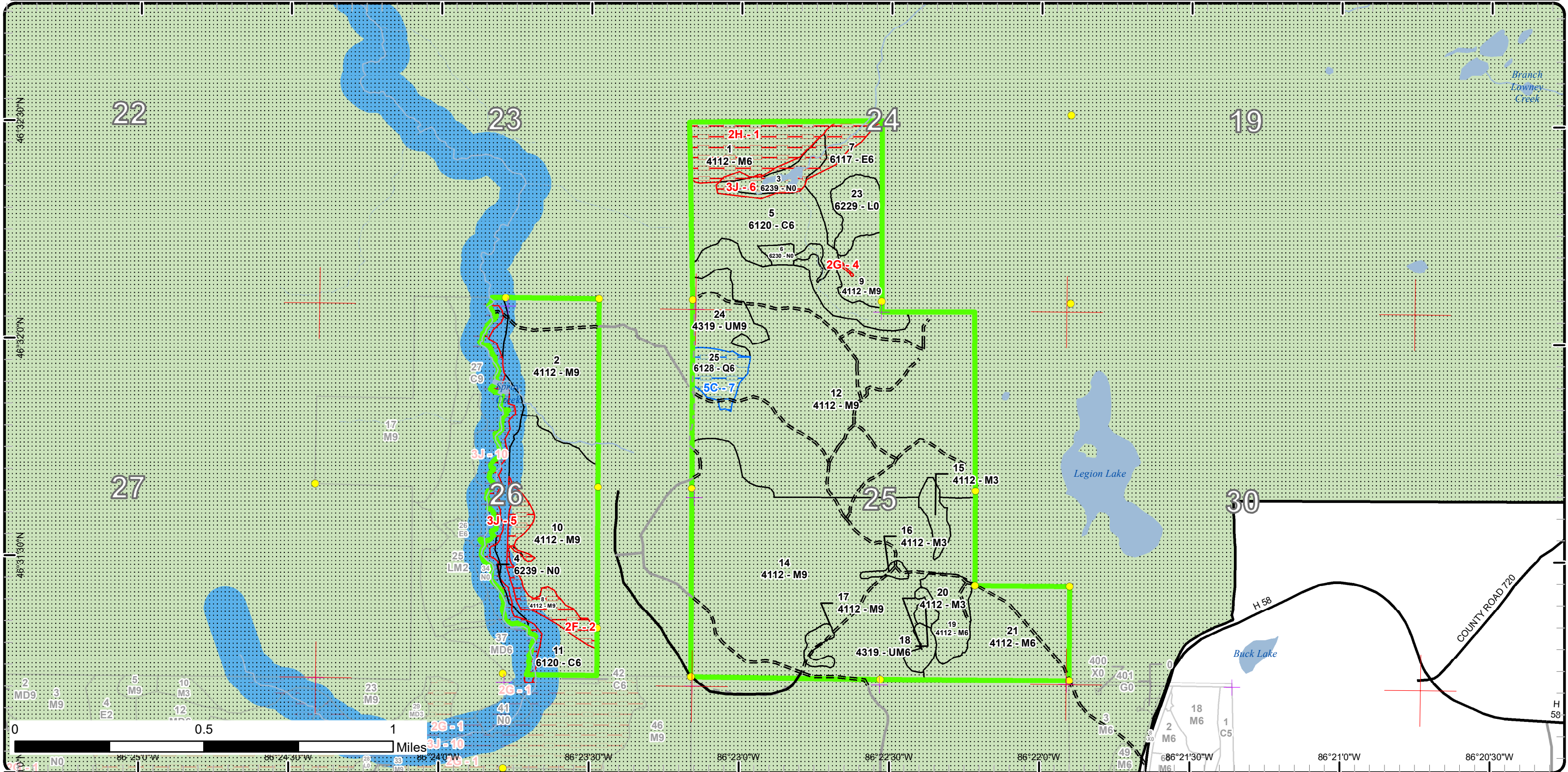


Special Conservation Areas

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 T48N, R17W, Sec: 24-26
 County: Alger
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- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- 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
Cedar	0	0	0	0	0	0	34	0	0	0	48	0	0	0	0	0	0	0	82
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Lowland Deciduous	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	12	0	0	0	0	14	588	55	0	0	0	0	0	0	0	0	669
Upland Mixed Forest	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	30	0	12	0	0	21	55	14	588	55	59	0	0	0	0	0	0	0	834



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 168
Total Compartment Acres: 834

Commercial Harvest - 271
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	Overshory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	271	0	0	0	0	0	0	0	271
	Total	0	271	0	0	0	0	0	0	0	271

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		271	0	0	0	0	0	96	0	0	367
Next Step		0	0	0	0	0	0	271	0	0	271
	Total	271	0	0	0	0	0	367	0	0	638



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

2	41168002-Cut	54.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Singletree Tree Selection: Mark stand to a BA of 60-90 following the DNR's complete marker guidelines. Leave all beech within stand to naturally as to not promote its regeneration. Also cut all merchantable balsam fir and spruce.</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> All Northern Hardwood species as well as hemlock and white pine.</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 /2024</p>											
12	41168012-Cut	216.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Singletree Selection: Mark stand to an average BA of 60-90 BA following the DNR's Complete Marker Guidelines. Leave all Hemlock and White pine. Leave all Beech, unless area is has high Beech BA, then mark for maneuverability of equipment. Cut all merchantable Balsam fir and Spruce.</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> All Northern Hardwood species including hemlock, white pine.</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 /2024</p>											

Approved Treatments:

9	41168009-Monitor	11.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /1932</p>											



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
10	41168010- Monitor	58.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	78	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven- Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> any species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032											
19	41168019- Monitor	13.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	68	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven- Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> any species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032											
23	41168023- Monitor	11.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> any species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032											

Total Treatment 366.6
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 168
Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5C 2F 2G 2H 3J

83	70	0	13	Cedar	5C	2F	2G	2H	3J
11	0	11	0	Lowland Conifers	11				
21	14	0	7	Lowland Deciduous					7
13	13	0	0	Lowland Shrub					
18	5	0	13	Marsh					13
670	625	0	45	Northern Hardwood		15	0	28	1
21	21	0	0	Upland Mixed Forest					
836	748	11	77	Total Forested Acres	11	15	0	28	34
	89%	1%	9%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	28	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
2	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 168
Year of Entry: 2025

5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	29.9	78	111-140	N/A	No access, surrounded by park service and to wet coming from the south on state.																																																										
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3	6239 - Mixed Emergent Wetland	Nonstocked	9.2			No																																																											
4	6239 - Mixed Emergent Wetland	Nonstocked	4.3	0	Unspecified	No																																																											
5	6120 - Lowland Cedar	Poletimber Well	48.4	96	1-50	N/A	Seeps and perennial streams present, MO riparian buffer																																																										
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6	6230 - Cattail	Nonstocked	4.2			No	Beaver Dam and associated flooding.																																																										
7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	20.6	56	81-110	N/A	This stand is very wet and has flooding do to beaver in the north end. South part of stand was cut in 2022 and is now a separate stand.																																																										
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.8	78	111-140	N/A	This stand is the Steep slope of parent stand 10 (cut in 2022), which was left unharvested.																																															
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11	6120 - Lowland Cedar	Poletimber Well	34.4	50	1-50	N/A	Wet Cedar with flowing water from the surrounding hillsides that makes its way to Spray Creek.																																															
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12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	216.1	78	81-110	N/A	TS: 41-046-98 beech was left to die naturally.																																															
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14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	206.8	78	81-110	N/A	Thinned 2 inventory cycles ago (41-033-05), pockets of nice Sugar Maple regen. Beech was left to naturally die.																																															
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16	4112 - Maple, Beech, Cherry Association	Sapling Well	2.0	17	Immature	N/A	Wildlife opening that is now a Sugar Maple stand on a good site and has nice Maple regenerating.																																									
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.3	78	111-140	N/A	Beech study stand that has permanent plots established. Permit 41-2009-0010. Beech thicket of pole sized beech with some maple mixed in.																																									
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18	4319 - Mixed Upland Forest	Poletimber Well	2.8	42	51-80	N/A	Part of the stand is an White Spruce plantation (less than 1/2 acre) heavy conifer understory. Large white pine, and pole size maple.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	4112 - Maple, Beech, Cherry Association	Sapling Well	4.2	17	Immature	N/A	Wildlife opening that was created last inventory cycle that has sprouted back to a fully stock maple stand.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Sapling	1	
Black Cherry	60	Sapling	1	17
Red Maple	20	Sapling	1	
White Spruce	5	Sapling	1	
Beech	10	Sapling	1	

21	4112 - Maple, Beech, Cherry Association	Poletimber Well	46.3	78	81-110	N/A	Let Beech fall apart and manage for White Pine to increase the conifer components in this marginal quality hardwood stand. Nice pockets of White Pine regen that will be released naturally with the Beech falling out. Non forested openings that were within this stand have now become filled with regeneration and are incorporated into the larger stand as regen gaps.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	16	
Red Maple	60	Pole	9	78
Beech	15	Pole	9	
Black Cherry	10	Pole	9	
Sugar Maple	10	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	5 - 10 feet	Tall Shrub
White Pine	Medium	5 - 10 feet	Tall Shrub

23	6229 - Mixed lowland shrub	Nonstocked	12.8	0	Unspecified	613 - Lowland Mixed Forest	Orange Bear timber sale
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24	4319 - Mixed Upland Forest	Sawtimber Well	18.2	40	51-80	N/A	mixed stand, with mix of lowland and upland, deciduous and coniferous.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	15	Pole	7	
White Pine	30	XLog	20	
Hemlock	15	Log	12	
Red Maple	40	Log	10	40

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling
Balsam Fir	Full	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.2	91	51-80	N/A	lowland stand with some mixed low quality hardwoods mixed in. Black spruce understory.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	XLog	20	
Northern White Cedar	20	Pole	7	91
Black Spruce	10	Pole	7	
Yellow Birch	10	Pole	7	
Red Maple	25	Pole	7	40
Hemlock	25	Pole	7	91

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