



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41137

Entry Year 2025

Acreage: 2,262

County Alger

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Bob Burnham

**Legal Description:**

T48N R15W sections 4, 9, 16 and 21

**Identified Planning Goals:**

**Soil and topography:**

The soils in this compartment are Kalkaska sands. These loose sands are classified as having a severe hazard of soil blowing, and the drainage class is somewhat excessively drained. The compartment is within the pitted outwash plain landform area. The topography is level to hilly with enclosed depressions. Section 4 contains two steep escarpments.

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

The majority of the surrounding land is state owned land. There are a few parcels owned by Manulife around the north part of the compartment. There are private camps around the small lakes south of the compartment.

**Unique Natural Features:**

**Archeological, Historical, and Cultural Features:**

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Ewalt Lake is mostly privately owned and has not seen any active fishery management for many years although it at one time did support a small northern pike and yellow perch fishery. Fishhook Lake is a small shallow lake that is not actively managed.

**Wildlife Habitat Considerations:**

This compartment is located in the Grand Marais Sandy End Moraine and Outwash Sub-subsection. The pre-settlement forests contained a mix of hemlock, white pine, red maple, balsam fir, yellow birch, beech and spruce. A minor component of mountain ash was recorded in the understory.

Circa 1900 hot slash fires burned through this area destroying both the regenerating forest and the organic component of the soils. As a result the vegetation in this area is substantially different than that of pre-settlement times. Currently the southern ¾ of this compartment are dominated by open grass/stump field and pioneering white pine stands. The remainder of the compartment contains northern hardwoods with a smaller component of conifer than was found during pre-settlement times.

The wildlife habitat objectives in this area include maintaining the large opening complex, enhancing the hard mast component, and restoring hemlock in the northern hardwood stands.

Wildlife species of special interest utilizing this compartment include merlin, sharp-tailed grouse, and sandhill cranes.

**Mineral Resource and Development Concerns and/or Restrictions**

Sections 4, 9, 16, & 21, T48N-R15W, Alger County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The nearest known active sand/gravel pit is more than five miles away. There may be some potential for sand (and perhaps minor amounts of gravel) within the compartment, but there appears to be low demand for aggregate resources in the area. No current mineral leasing activity involving State-owned mineral rights exists in the area, and there are no notable prospects for mineral development in the compartment at this time.

**Vehicle Access:**

Good. There are two-track roads throughout most of the compartment.

**Survey Needs:**

Survey work will be needed in Section 4 to facilitate future timber sale activities in the NE 1/4.

**Recreational Facilities and Opportunities:**

The Fox River Pathway and snowmobile trail #88 runs through the compartment. It is important to ensure that logging and other land management activities do not impact the pathway. Keep the pathway and snowmobile trail clear of logging slash and debris. Also, if winter logging is required, do not plow the trail/road to bare ground and try to maintain the trail/road as wide as possible. Additional uses include: berry picking, sightseeing and hunting.

**Fire Protection:**

The main cover types in this compartment are Grass and White Pine.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

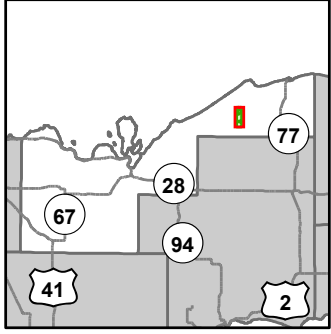
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

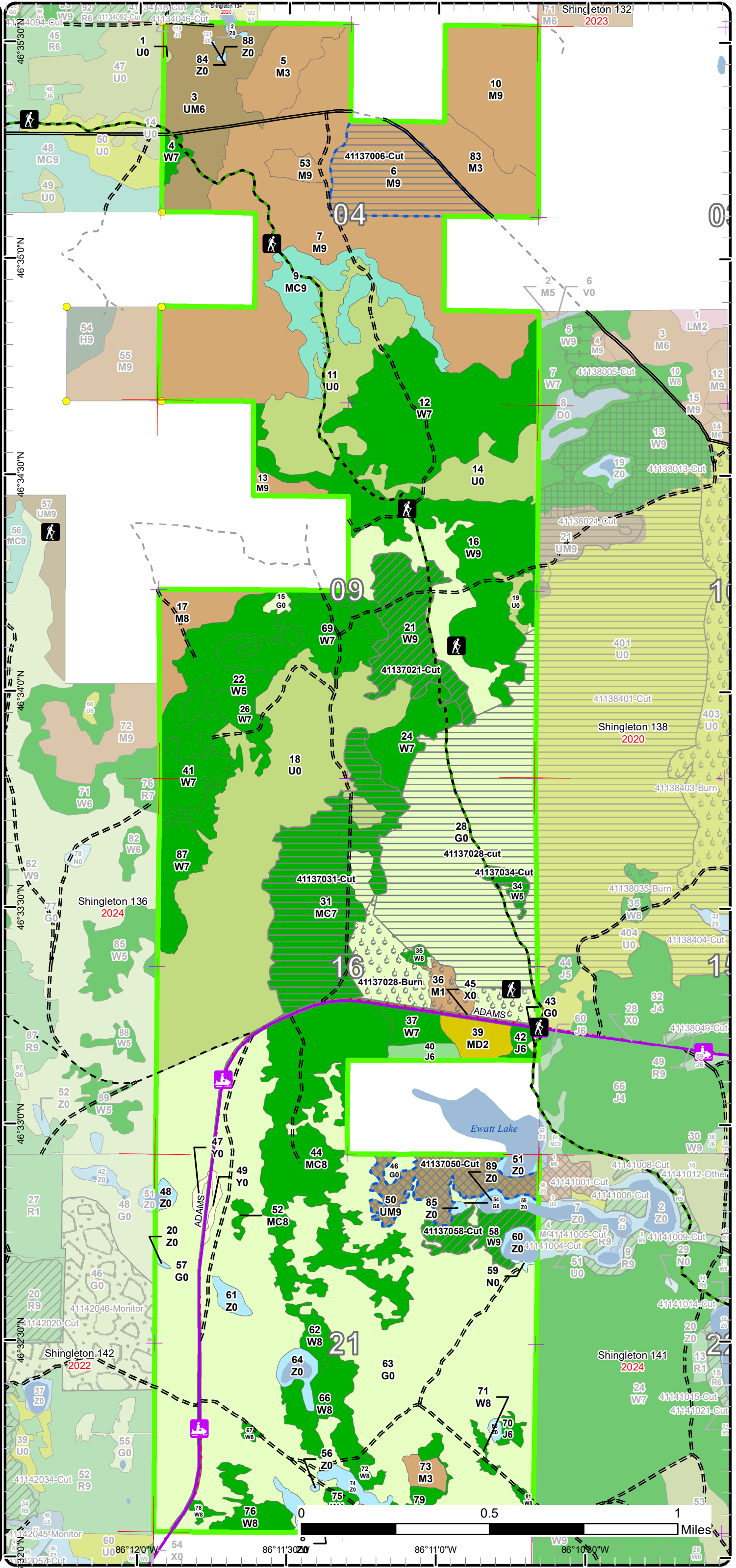
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 137  
 T48N,R15W, Sec: 4, 9, 16, 21  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Grand Marais  
 Moraine Complex  
 YOE: 2025  
 Acres: 2261.8 GIS Calculated  
 Examiner: Bob Burnham  
 Map Revised: 8/15/2023  
 Map Phase: Review



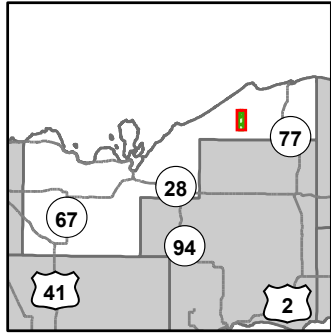
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 621 - Floating Aquatic
- 623 - Emergent Wetland
- 710 - Sand/Soil



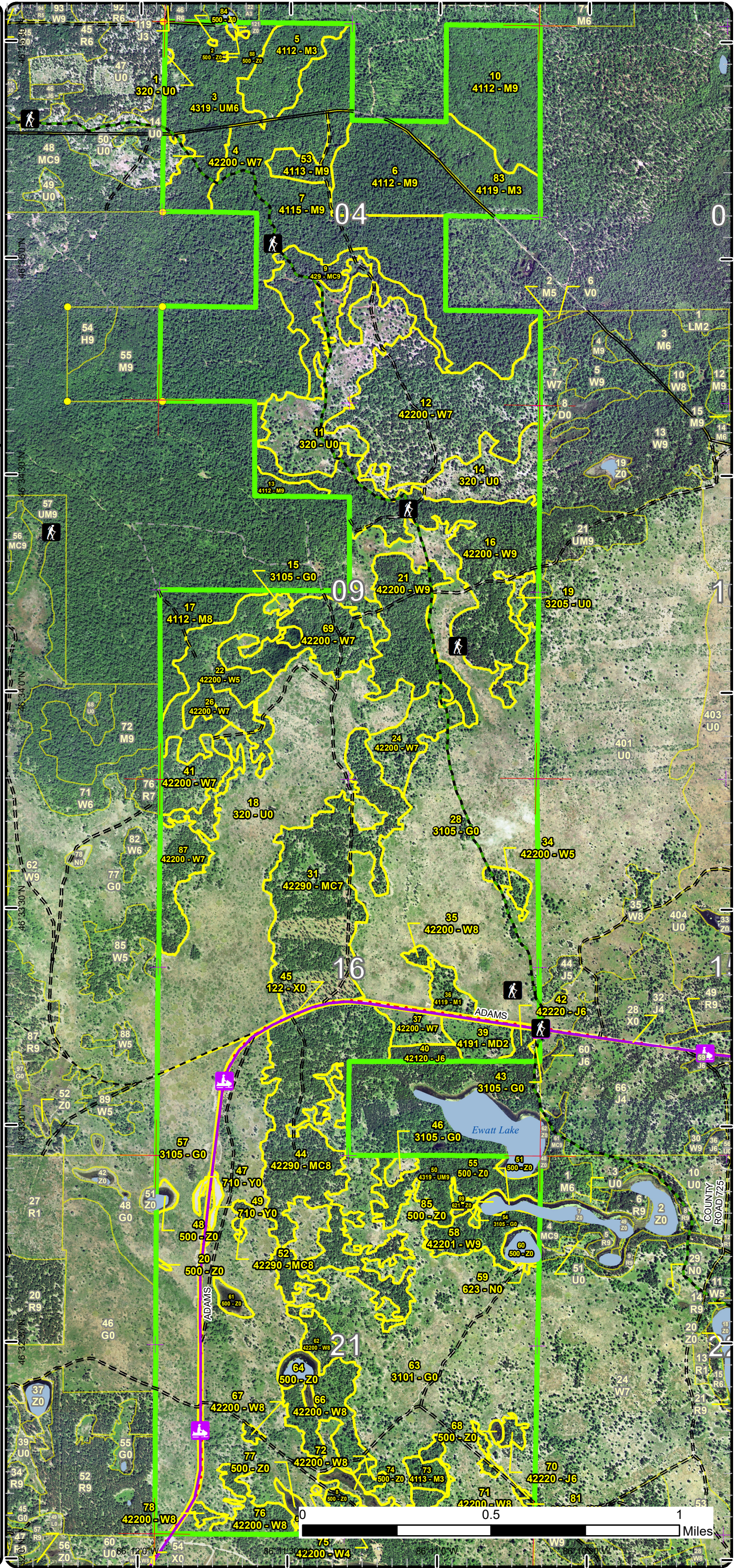


# Stand Boundary Map

Compartment: 137  
 T48N,R15W, Sec: 4, 9, 16, 21  
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 Moraine Complex  
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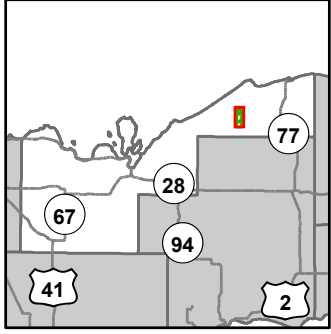
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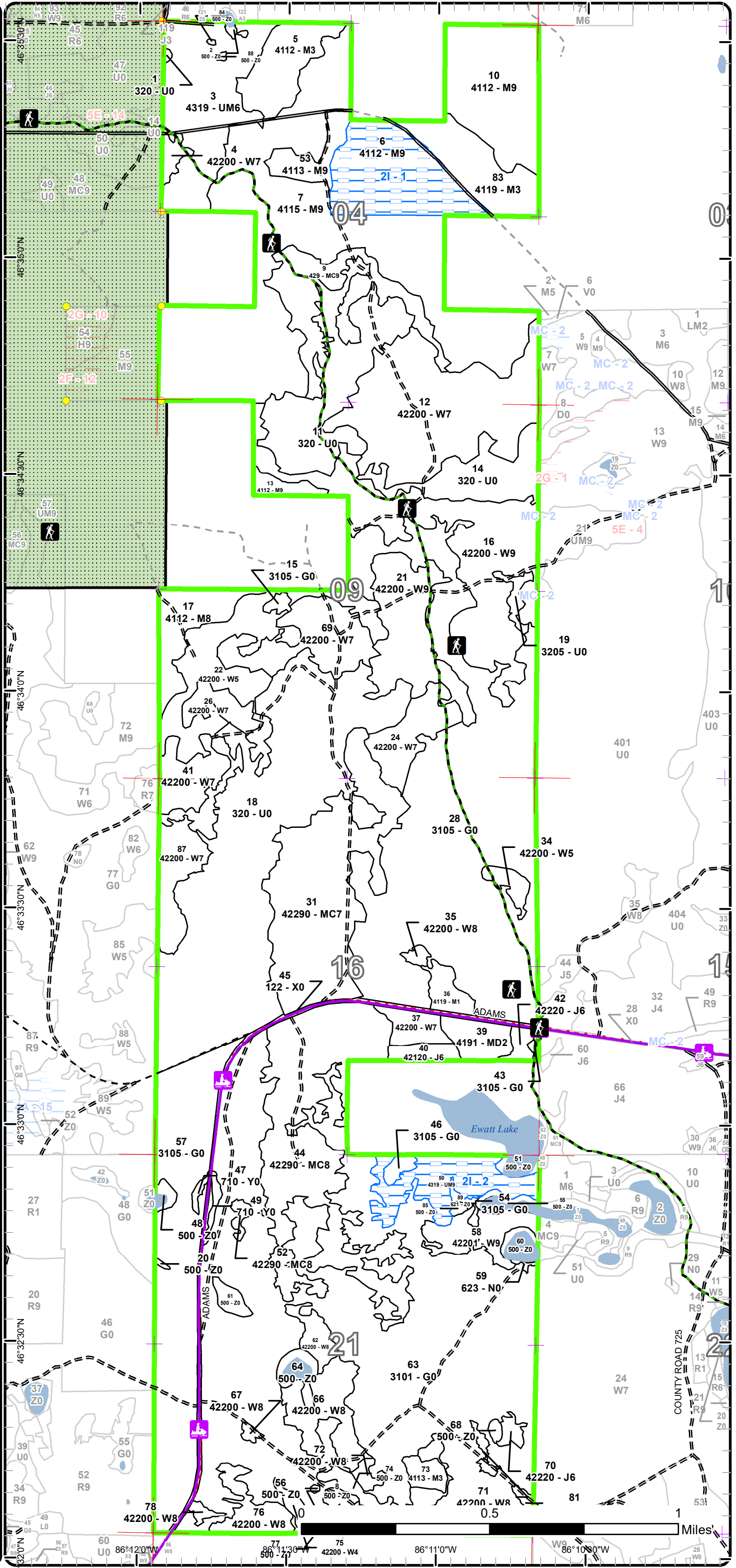


# Special Conservation Areas

Compartment: 137  
 T48N,R15W, Sec: 4, 9, 16, 21  
 County: Alger  
 Unit: Shingleton  
 Mgmt Area: Grand Marais  
 Moraine Complex  
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- Designated Snowmobile Trails
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- Stand Boundaries
- SCA
- Recreational/Scenic Value Area







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+	Unseen-Aged	Total
Herbaceous Openland	735	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	734
Jack Pine	0	0	0	0	9	3	0	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mixed Upland Deciduous	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	0	0	0	0	2	189	0	0	0	0	0	0	0	0	0	191
Northern Hardwood	0	59	9	0	0	0	0	0	0	305	0	21	0	0	0	0	0	0	394
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Conifers	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	37
Upland Mixed Forest	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0	0	0	0	88
Upland Shrub	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
White Pine	0	0	0	0	0	0	0	52	160	163	2	0	0	0	0	0	0	90	467
<b>Total</b>	<b>1063</b>	<b>59</b>	<b>20</b>	<b>0</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>54</b>	<b>437</b>	<b>468</b>	<b>39</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>2261</b>





## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2025

Acres of Harvest

Compartment 137  
Total Compartment Acres: 2,262

Commercial Harvest - 319  
Harvests with Site Condition - 75  
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
Herbaceous Openland	163	0	0	0	0	0	0	0	0	163
Natural Mixed Pines	96	0	0	0	0	0	0	0	0	96
Northern Hardwood	47	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	0	29	0	0	0	0	0	0	0	29
White Pine	5	0	0	0	0	55	0	0	0	60
<b>Total</b>	<b>311</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>395</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	395	0	0	0	42	0	0	0	0	437
Next Step	0	143	143	0	168	143	357	0	0	953
<b>Total</b>	<b>395</b>	<b>143</b>	<b>143</b>	<b>0</b>	<b>209</b>	<b>143</b>	<b>357</b>	<b>0</b>	<b>0</b>	<b>1390</b>





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:**

<b>6</b>	<b>41137006-Cut</b>	46.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leaving edge retention. Herbicide beech regen post harvest.  <u>Specs:</u>  <u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial  <u>Treatments:</u> Regen(3yr)  <u>Acceptable</u> Red Pine  <u>Regen:</u>  <u>Other</u> Long term objective will be to transition this stand back to hardwoods at the end of the rotation.  <u>Comment:</u>  <u>Site Condition</u> Survey Needed  <u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>21</b>	<b>41137021-Cut</b>	39.6	42200 - Natural White Pine	Sawtimber Well	75	81-110	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
<p><u>Prescription</u> Spec out all species except pine, hemlock and oak to be cut. This pine concentrating on the 16 to 20 inch class.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> White pine with a mix of other species.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>28</b>	<b>41137028-Burn</b>	41.7	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Burn	Opening	3102 - Grass		No
<p><u>Prescription</u> Burn with the larger opening to the north.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Other - Specify  <u>Treatments:</u>  <u>Acceptable</u> Grass  <u>Regen:</u>  <u>Other</u> The larger opening is under contract to harvest all trees prior to burning, once the burn is complete these will be the same stands.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</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
<b>31 41137031-Cut</b>	96.4	42290 - Natural Mixed Pine	Sawtimber Poor	79	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leaving a pocket of retention on east edge (arm). Cut all trees and re-plant to red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)</p> <p><u>Acceptable</u> Red 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>										
<b>50 41137050-Cut</b>	28.8	4319 - Mixed Upland Forest	Sawtimber Well	70	81-110	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> In the areas near the lakes/ponds ensure that 60-80 BA is retained within the RMZ. In the remainder of the stand cut all trees except red pine, white pine, hemlock and oak. Thin the pine concentrating on the 12 - 20 inch class.</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> Mix of the current species on-site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>58 41137058-Cut</b>	15.8	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	72	81-110	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand harvesting everything except white pine, red pine hemlock and oak. Thin pine as needed for access and to improve quality.</p> <p><u>Specs:</u> Retain adequate BA in the RMZ's.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine with a mix of other species.</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:**

<b>28 41137028-cut</b>	162.6	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Clearcut all merchantable trees except hemlock and oak. Follow harvest with Rx burn to manage for opening complex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Grass</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></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
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Proposed Start Date: 10/1 /2019

34	41137034-Cut	5.0	42200 - Natural White Pine	Poletimber Medium	63	51-80	Harvest	Clearcut	310 - Herbaceous Openland	No
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Prescription Harvest all merchantable trees except hemlock and oak. Follow up with prescribed burn.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Stand will be managed for grass complex.

Regen:

Other After harvest the stand will be burned.

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

**Total Treatment Acreage Proposed: 436.5**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Bob Burnham : Examiner

Compartment: 137  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	21
735	735	0	0	Herbaceous Openland	
11	11	0	0	Jack Pine	
1	1	0	0	Marsh	
11	11	0	0	Mixed Upland Deciduous	
191	191	0	0	Natural Mixed Pines	
395	349	47	0	Northern Hardwood	47
3	3	0	0	Sand, Soil	
37	37	0	0	Upland Conifers	
88	59	29	0	Upland Mixed Forest	29
272	272	0	0	Upland Shrub	
14	14	0	0	Urban	
38	38	0	0	Water	
467	467	0	0	White Pine	
2,262	2,186	75		Total Forested Acres	75
	97%	3%	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	21: Survey needed	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	21: Survey needed	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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

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### 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.

Conservation Area	Type	Description	ERA = Ecological Reference Area	HCVA = High Conservation Value Area	SCA = Special Conservation Area
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	320 - Upland Shrub	Nonstocked	0.5	0	Unspecified	4212 - Planted Jack Pine	unit 5 of turtle shell pine. trenched summer of 2017 by DNR staff. Planted spring 2018 to JP. Regen check failed dur to a lirage amount of dead seedlings stands needs replant. replanted spring 2019. passed regen check fall 2019. Passed regn check 3rd year in 2021.																																																
2	500 - Water	Nonstocked	0.9	0	Unspecified	No																																																	
3	4319 - Mixed Upland Forest	Poletimber Well	59.0	70	81-110	N/A	Topography starts slopes up to the east transitioning to a ridge. Fox River Pathway runs through southern portion of the stand. Baker Grade is extensively ditched through stand and another old spur tails off to the south. There are vernal pools on the north end. Stand is quite a mix. Paper Birch, fir and aspen are mature and falling apart.																																																
<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>Paper Birch</td> <td>8</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>35</td> <td>Pole/Log</td> <td>9</td> <td>70</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>3</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	8	Log/Pole	10		Red Maple	35	Pole/Log	9	70	Balsam Fir	20	Pole	8		Beech	2	Log	10		White Spruce	2	Log/Pole	10		Quaking Aspen	3	Log	12		White Pine	30	Log/Pole/XLog	16		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	Variable	Sapling	Balsam Fir	High	Variable	Sapling
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Balsam Fir	High	Variable	Sapling																																																				
4	42200 - Natural White Pine	Sawtimber Poor	4.0	70	1-50	N/A	This is an old opening that converted to a forested stand. Multiple ages of white pine.																																																
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7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	189.6	80	81-110	N/A	last cut in 2007,																																																
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8	500 - Water	Nonstocked	0.8		Unspecified	Managed Opening	This pond fluctuates by the decade.																																																
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9	429 - Mixed Upland Conifers	Sawtimber Well	36.7	90	81-110	N/A	Natural white pine/red maple transition stand displaying unevenaged characteristics. Some partial cutting was done in the 1990's when D.O.C. cut hardwood pulp (fuelwood) from areas of the stand.																																																
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10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	52.5	80	81-110	N/A	Low quality red maple stand. Stand 83 was previously part of this stand and clear cut last entry with good results. Vernal Pond on south end of stand.																																																
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11	320 - Upland Shrub	Nonstocked	56.0		Unspecified	No	This is an old opening that is filling in. Mix of lichen, blueberry, fern and grass; clumps of choke cherry, serviceberry, red maple and scattered pine throughout.																																																
12	42200 - Natural White Pine	Sawtimber Poor	89.4	80	51-80	N/A	Natural white pine in an unevenaged condition, with semi-open areas scattered throughout the stand. Much of the paper birch has already died, and the rest is in poor condition. A few aspen, spruce and fir are also present. The understory is primarily white pine regeneration ranging from seedlings to 4" dbh. Red maple is common but seldom reaches merchantable size. Other understory species include scrub black cherry and juneberry; ground cover is a variable mix of ferns, blueberry, lichens, and grasses.																																																
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13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	80	81-110	N/A	Red maple pole stand on steep ground. There were beech and a few paper birch present but these have all but died out.																																									
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14	320 - Upland Shrub	Nonstocked	27.5		Unspecified	No	This is a unique opening that is filling in with trees. The stand is seasonally flooded during some years as evidence by dead trees.																																									
15	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	No																																										
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16	42200 - Natural White Pine	Sawtimber Well	86.0	90	81-110	N/A	Stand has 3 distinct age classes. North end has a steep slope. Due to the harvest that is scheduled in the adjacent compartment hold stand and treat next entry.																																									
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	21.3	100	51-80	N/A	Sale last cut in 2007. The residual basal area has dropped considerably due to mortality caused by beech bark disease.																																									
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18	320 - Upland Shrub	Nonstocked	184.3		Unspecified	Managed Opening	This is an old managed opening that is filling in with trees, especially on the north end.																																									
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19	3205 - Mixed Upland Shrub	Nonstocked	3.6		Unspecified	Managed Opening																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
20	500 - Water	Nonstocked	0.3		Unspecified	Managed Opening	Seasonally fluctuating pond.																																																			
21	42200 - Natural White Pine	Sawtimber Well	39.6	75	81-110	N/A	Stand has an un-even aged appearance or 3 aged. Stand could benefit from a thinning.																																																			
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22	42200 - Natural White Pine	Poletimber Medium	59.1	70	81-110	N/A	This stand was scheduled last time but split out from what was actually cut due to low stocking and smaller diameter. Look at next entry to do a harvest.																																																			
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24	42200 - Natural White Pine	Sawtimber Poor	19.8	62	1-50	N/A	A very small portion of this stand was part of the ATP sale. The stand is blending in with the adjacent opening that is filling in with trees.																																																			
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26	42200 - Natural White Pine	Sawtimber Poor	9.0	85	1-50	N/A	Stand was seed tree cut last entry and scarified. The result is a two aged stand in which the understory is still seeding in. Red maple has sprouted throughout and white pine is slowly coming in. Evaluate next entry for a removal cut.  ATP 41-017-15-01 Unit 6 Scarified by Holi summer 2018																																																			
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28	3105 - Mixed Upland Herbaceous	Nonstocked	237.9		Unspecified	Managed Opening	This stand was prescribed out of entry at the 2020 Compartment Review. This stand was scheduled to be clearcut followed by a prescribed burn to manage as a large opening complex.																																																			
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31	42290 - Natural Mixed Pine	Sawtimber Poor	87.9	79	1-50	N/A	Stand was cut in last entry, ATP sale. The seed trees are spaced well. It was scarified by Holi in the summer 2018. Regen survey shows 340 tpa, almost all is red maple. Due to failed regen clear cut stand and trench and plant. In-tact arm on east side can be left for retention.																																																			
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<b>34</b>	42200 - Natural White Pine	Poletimber Medium	5.0	63	51-80	N/A	This stand was prescribed out of entry at the 2020 Compartment Review. This stand was scheduled to be clearcut followed by a prescribed burn to manage as a large opening complex.																																					
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<b>35</b>	42200 - Natural White Pine	Sawtimber Medium	1.7	90	81-110	N/A	A couple of distinctive age classes are present in this white pine stand - log sized trees 14-20" DBH and pole-sized timber 5-9" DBH. The paper birch is rapidly falling out of the stand and is unlikely to remain a significant component; red maple is beginning to appear and will ultimately replace it unless a disturbance such as fire reverses the trend.																																					
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<b>36</b>	4119 - Mixed Northern Hardwoods	Sapling Poor	7.1	6	Immature	N/A	This stand was cut in the previous entry and scarified in 2018. Regen is pretty poor throughout. Consider adding this stand to the adjacent timber sale, cutting the remaining trees and burning to manage as part of the larger opening complex.																																					
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<b>37</b>	42200 - Natural White Pine	Sawtimber Poor	8.3	63	Unspecified	N/A	This is an old opening that is filling in with trees other than a couple frost pockets. Scattered trees and clumps of juneberry etc.																																					
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<b>39</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	10.6	14	1-50	N/A	Stand was cut in 2009, it was previously heavier to paper birch, seed trees were left but dies quickly after harvest. Stand is regenerating to red pine but is really a two aged stand. Featuring the understory at this time. There are some areas void of regen which are frost pockets.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
40	42120 - Planted Jack Pine	Poletimber Well	5.3	35	51-80	N/A	This jack pine stand clearly looks to have been planted but no planting record could be found. Many of the white pine, paper birch & red maple are residuals from the last stand.																																													
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41	42200 - Natural White Pine	Sawtimber Poor	15.7	85	Unspecified	N/A	Stand was seed tree cut last entry and scarified in 2018. The residual is heavy to white pine. The regen is mainly red maple with pockets of aspen and fir. Regen survey shows fully stocked stand but very little white pine which was the objective. White pine will seed in over time regen accepted.																																													
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42	42220 - Natural Jack Pine	Poletimber Well	3.4	35	51-80	N/A	Open grown stand. Treat next entry with adjacent compartment.																																													
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43	3105 - Mixed Upland Herbaceous	Nonstocked	0.9		Unspecified	No	Mix of lichen, blueberry, fern and grass; a few clumps of cherry, serviceberry, and scattered pine throughout.																																													
44	42290 - Natural Mixed Pine	Sawtimber Medium	101.0	70	51-80	N/A	Large natural pine stand - density varies, and some spots have a considerably higher percentage of red pine and/or paper birch. Age shown here represents an average, but numerous trees older than this are present. Stand was last harvested in 1984.																																													
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45	122 - Road/Parking Lot	Nonstocked	13.8		Unspecified	No	Adams Trail																																													
46	3105 - Mixed Upland Herbaceous	Nonstocked	2.7		Unspecified	No	Mix of lichen, blueberry, fern and grass; a few clumps of choke cherry, serviceberry, red maple and scattered pine included.																																													
47	710 - Sand, Soil	Nonstocked	1.1		Unspecified	Managed Opening	Old borrow pit, attempts to plant jack pine are evident with a few survivors.																																													
48	500 - Water	Nonstocked	2.3		Unspecified	No	Seasonally fluctuating pond.																																													





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	710 - Sand, Soil	Nonstocked	1.9		Unspecified	Managed Opening	Old borrow pit, attempts to plant jack pine are evident with a few survivors.		
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
		Jack Pine		Low	Unspecified	Seeding			
50	4319 - Mixed Upland Forest	Sawtimber Well	28.8	70	81-110	N/A	Located on a ridge between Ewalt and Fishhook Lakes, this was a paper birch stand; but as the birch continues to die out, it is gradually succeeding to red maple/white pine with a few fir and hemlock. Many of the white pine appear to be relicts from the previous stand, and the paper birch that are still surviving are generally in decline. Beech was also present but has died out. The understory is stocked with a mix of red maple, white pine and balsam fir.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		33	Log/Pole	10	70	Red Maple	Medium	Variable	Sapling
Red Maple		25	Pole	8		Balsam Fir	Medium	Variable	Sapling
Hemlock		4	Pole	9		White Pine	Medium	Variable	Sapling
White Pine		30	Log/XLog/Pole	16					
Balsam Fir		8	Pole	8					
51	500 - Water	Nonstocked	3.6		Unspecified	No	Ewalt lake - south end. Water level varies seasonally.		
52	42290 - Natural Mixed Pine	Sawtimber Medium	2.1	69	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Scotch Pine		15	Pole/Log	9		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Red Pine		47	Log/Pole	10	69	White Pine	Low	Variable	Sapling
White Pine		38	Pole/Log	9					
53	4113 - R.Maple, Conifer	Sawtimber Well	11.5	80	51-80	N/A	Last cut in 2007,		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		25	Log	14		White Pine	Low	Variable	Sapling
Hemlock		5	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Maple		70	Log/Pole	10	80	Beech	High	Variable	Sapling
						Red Maple	High	Variable	Sapling
54	3105 - Mixed Upland Herbaceous	Nonstocked	1.8		Unspecified	No	Open grassy area near the west end of Fishhook Lake - mostly open but something of a transition between a dry upland opening and wet grass/low shrub stand. A few pine are included, so the stand is probably more like an upland stand than a true lowland.		
55	500 - Water	Nonstocked	4.0		Unspecified	No	Fishhook lake - west end. Water level varies seasonally.		
56	500 - Water	Nonstocked	0.3		Unspecified	Managed Opening	This pond fluctuates by the decade.		
		<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
		Serviceberry (Juneberry)		Low		Tall Shrub			
		Cherry (spp.)		Low		Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
57	3105 - Mixed Upland Herbaceous	Nonstocked	97.5		Unspecified	Managed Opening	This opening has had work done in the past by inmates but never burned as this is spot that could be managed for visuals due to the terrain and presence of stumps. Mix of lichen, blueberry, fern and grass; scattered clumps of cherry and serviceberry also present.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cherry (spp.)	Trace		Tall Shrub	
								Serviceberry (Juneberry)	Trace		Tall Shrub	
58	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	15.8	72	81-110	N/A	Natural white pine with paper birch and red maple. The understory is stocked with a mix of white pine, red maple and balsam fir up to 4" DBH. Paper birch is in heavy decline.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	67	Log/Pole/XLog	14	72
								Red Maple	10	Pole	8	
								Paper Birch	23	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Medium	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									
Balsam Fir	Medium	Variable	Sapling									
59	623 - Emergent Wetland	Nonstocked	0.5		Unspecified	No						
60	500 - Water	Nonstocked	4.9		Unspecified	No	Pond					
61	500 - Water	Nonstocked	3.7		Unspecified	No	Seasonally fluctuating pond.					
62	42200 - Natural White Pine	Sawtimber Medium	7.0	70	51-80	N/A	Natural white pine - Some age class diversity is present, as the trees vary from 5-6" DBH poles up to supercanopy trees 20"+ DBH. Semi-open in spots - Basal area /crown closure are variable.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	90	Log/Pole	14	70
								Red Maple	3	Pole	6	
								Paper Birch	5	Pole/Log	10	
								Red Pine	2	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
White Pine	Medium	Variable	Sapling									
63	3101 - Poverty Grass, Cladonia	Nonstocked	391.9		Unspecified	Managed Opening	This is a large expansive opening that is filling in with white pine. Bur oak were prescribed and planted last entry period. These planting were not successful as most/all have died.  470 Bur Oak were planted May 2014. W41-1595. 1045 Bur oak were planted in May 2015. W41-1595					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Serviceberry (Juneberry)	Low		Tall Shrub	
								White Pine	Medium	>20 feet	Log	
Cherry (spp.)	Low		Tall Shrub									
64	500 - Water	Nonstocked	6.4		Unspecified	No						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>66</b>	42200 - Natural White Pine	Sawtimber Medium	22.0	70	81-110	N/A	Cut last in 2009. Stand has 3 ages of white pine. Red maple regenerated well throughout the stand. Canopy closure and basal area are extremely variable.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		2	Pole	6		White Pine		
Jack Pine		2	Pole	7		Balsam Fir		
White Pine		90	Log/Pole/XLog	16	70	Jack Pine		
Red Maple		2	Pole	6		Red Maple		
Red Pine		2	Log/Pole	11		Density		
Paper Birch		2	Pole	7		Avg. Height		
						Size		
<b>67</b>	42200 - Natural White Pine	Sawtimber Medium	1.2	71	51-80	N/A	Natural white pine - Some age class diversity is present, as the trees vary from 5-6" DBH poles up to supercanopy trees 24"+ DBH. Semi-open in spots	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		4	Pole	5		White Pine		
White Pine		93	Log/Pole/XLog	14	71	Red Maple		
Paper Birch		3	Pole	7		Density		
						Avg. Height		
						Size		
<b>68</b>	500 - Water	Nonstocked	1.1		Unspecified	No	Low area with small pond surrounded by wet grassland. Water level appears to vary significantly throughout the year,	
<b>69</b>	42200 - Natural White Pine	Sawtimber Poor	31.0	85	1-50	N/A	Stand was seed tree cut last entry and scarified in 2018. The residual is heavy to white pine. The regen is mainly red maple with pockets of aspen and fir. Regen survey shows fully stocked stand but very little white pine which was the objective. White pine will seed in over time regen accepted.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		85	Log/XLog/Pole	16	85	White Pine		
Red Pine		10	Log	14		Quaking Aspen		
Hemlock		5	Pole/Log	10		Balsam Fir		
						Red Maple		
						Density		
						Avg. Height		
						Size		
<b>70</b>	42220 - Natural Jack Pine	Poletimber Well	2.6	40	81-110	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		85	Pole/Log	9	40	White Pine		
White Pine		15	Log/Pole	10		Jack Pine		
						Density		
						Avg. Height		
						Size		
<b>71</b>	42200 - Natural White Pine	Sawtimber Medium	2.0	63	51-80	N/A		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		92	Pole/Log	10	63	Serviceberry (Juneberry)		
Jack Pine		5	Pole	6		White Pine		
Paper Birch		3	Log	16		Density		
						Avg. Height		
						Size		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
72	42200 - Natural White Pine	Sawtimber Medium	2.7	63	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		5	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Maple		10	Pole/Log	9		Red Maple	Low	Variable	Sapling
White Pine		80	Log/Pole	10	63				
Paper Birch		5	Pole/Log	9					
73	4113 - R.Maple, Conifer	Sapling Well	5.1	14	1-50	N/A	Cut in 2009. BA shown is residuals from the previous stand. Mostly red maple sprouts with a some scattered conifer mixed in. The residual basal area represents seed trees left from the previous stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Spruce		5	Sapling/Pole	4					
Balsam Fir		5	Sapling	2					
White Pine		10	Log/XLog	17	90				
Hemlock		5	Pole	9					
White Pine		10	Sapling	2					
Red Maple		65	Sapling	2	14				
74	500 - Water	Nonstocked	4.7		Unspecified	No	This pond fluctuates by the decade.		
75	42200 - Natural White Pine	Poletimber Poor	3.8	62	1-50	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		80	Pole/Log	9	62	Black Cherry	Low	Variable	Sapling
Paper Birch		20	Pole	8		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
						White Pine	Low	Variable	Sapling
76	42200 - Natural White Pine	Sawtimber Medium	12.4	71	51-80	N/A	Natural white pine - Some age class diversity is present, as the trees vary from 5-6" DBH poles up to supercanopy trees 28-30" DBH. Semi-open in spots - Basal area /crown closure are variable. A few hemlock are also present.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		10	Pole/Log	9		White Pine	Low	Variable	Sapling
White Pine		75	Log/Pole/XLog	12	71	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Red Maple		5	Pole	8		Red Maple	Low	Variable	Sapling
Red Pine		10	Log/Pole	12					
77	500 - Water	Nonstocked	2.8		Unspecified	No	This pond fluctuates by the decade.		
78	42200 - Natural White Pine	Sawtimber Medium	1.7	71	81-110	N/A	Natural white pine - Some age class diversity is present, as the trees vary from 5-6" DBH poles up to supercanopy trees 28-30" DBH. Semi-open in spots - Basal area /crown closure are variable.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		86	Log/Pole/XLog	11	71	White Pine	Low	Variable	Sapling
Red Pine		12	Log	15		Choke Cherry	Low	Variable	Tall Shrub
Red Maple		2	Pole	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
79	42200 - Natural White Pine	Poletimber Medium	10.2	63	51-80	N/A	South end is mostly white pine poles, with scattered log-size trees throughout. The north end is heavier to logs but small acreage. Open grown stand characteristics.																																																					
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81	42200 - Natural White Pine	Sawtimber Medium	1.7	79	51-80	N/A	Multi-storied white pine stand featuring logs 14-22" DBH over 6-8" poles and a fully-stocked understory of balsam fir, red maple and white pine saplings. At one time this stand had a lot of paper birch in it but almost all of it is dead or dying; red maple is gradually replacing it.																																																					
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83	4119 - Mixed Northern Hardwoods	Sapling Well	28.5	7	1-50	N/A	ATP 41-017-15-01 Unit 9  Stand was cut in fall of 2016, no follow up activities occurred. Red maple regen is good, there is still beech regen and areas of pin cherry but the red maple is mixed throughout. White Pine is also seeding in.																																																					
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<b>87</b>	42200 - Natural White Pine	Sawtimber Poor	18.3	85	1-50	N/A	Stand was seed tree cut last entry and scarified in 2018. The residual is heavy to white pine. The regen is mainly red maple with pockets of aspen and fir. Regen survey shows fully stocked stand but very little white pine which was the objective. White pine will seed in over time regen accepted.  ATP 41-017-15-01 Unit 6 Scarified by Holi summer 2018																																
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<b>88</b>	500 - Water	Nonstocked	0.3		Unspecified	No																																	
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