



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41038

Entry Year 2022

Acreage: 2,207

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Revision Date:** 2020-05-08

**Stand Examiner:** Adam Petrelius

**Legal Description:**

T43N R16W, Sections 6, 7, 8, 17, 18

**Identified Planning Goals:**

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

**Soil and topography:**

The topography within the compartment is mostly flat with a few rolling hills. Elevation values range between 669-705 feet. Most of the compartment is forested with only a few stands classified as grass or lowland brush. Aspen/jack pine is the dominant cover type. Other abundant cover types lowland aspen and natural pine/mixed deciduous. Numerous soil types are located in this compartment. A few of the most abundant soils are Deford, Rousseau-Neconish-Finch, and Markey Mucky Peat. Major habitat types within the compartment, in order of abundance, are Unclassified Lowland and PVE.

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

State land within this compartment was acquired between 1927 and 1970. Most of the land was acquired around 1940. The compartment boundary borders private, federal, and state land. The southern boundary and northern boundaries border state land. The western boundary borders USFS land. The eastern boundary borders private land, mostly Lyme Timber Company Lands. One 40 acre private parcel is split into 3 ownerships within the compartment and is surrounded by state land entirely. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

**Unique Natural Features:**

None

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

None

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

Poor-to-Good. The Big Ditch is classified as SQCW as soon as it combines into one stream, in the upper half of Section 6. Even so, we know very little about its natural trout production or angler success when fishing it. However, Smith Creek is classified SQWW. There is no need to protect Smith Creek from encroachment by beaver, but protection from increased sand bedload is still a high priority.

**Wildlife Habitat Considerations:**

Compartment 38 lies within central Schoolcraft county in the Seney Sand Lake Plain ecological sub-subsection and is part of the Seney-Manistique Swamp Management area with beaver, moose, sharp-tailed grouse, snowshoe hare, and white-tailed deer as featured species. The growing season averages approximately 110 days with an extreme minimum temperature of -46 degrees F. Average annual snowfall in this area is around 120 inches.

Pre-settlement forest in this area consisted primarily of red pine, jack pine, and aspen on the ridges. Lowlands were dominated by unforested marsh and black spruce/tag alder swamps. Currently a large portion of sections 6 and 7 are being drained by the Big Ditch. Non flooded areas are dominated by either low herbaceous vegetation or regenerating aspen. Wet areas are covered by willow.

Wildlife habitat management objectives for this compartment are primarily related to maintaining the open lands and encouraging early successional forest species. Other wildlife priorities include the creation of dense understory's with retention of woody debris in jack pine and lowland types and retaining soft and hard mast producing species in harvested stands. There are three bird species of concern known to exist either close to or within this compartment including Kirtland's warbler, prairie warbler and sharp-tailed grouse. There is at least one (potentially more) sharptailed-grouse lek(s) within this compartment. Other wildlife species of interest tree swallows, kestrels, blue birds, ruffed grouse, woodcock, mink, beaver, woodchuck, coyote and red fox.

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

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica Shale and Stonington Formation subcrop below the glacial drift. These formations do not have an economic use. The nearest gravel pit is 3 miles to the east. There is limited gravel potential on State lands.

## **Vehicle Access:**

Except for the areas containing low ground, the compartment has a decent system of forest roads that can be driven during the snow free months. State Highway M-94 travels east/west through the compartment. The Haywire Grade Snowmobile/ORV trail, Mint Farm Road, and Big Ditch Road, and Smith Creek Truck Trail also travel through the compartment.

## **Survey Needs:**

A survey project was completed last year of entry, however areas bordering the Hiawatha National Forest to the west may require future survey work.

## **Recreational Facilities and Opportunities:**

The Haywire Grade snowmobile trail and ORV trail travels through the middle of the compartment.

## **Fire Protection:**

Response time to fires within this compartment from the Thompson field office will be slow. The compartment receives moderate use throughout fire season and human caused fires are a concern. Both spring and summer fires are likely to occur here. Organic soil conditions may cause problems for firefighters during dry summer months. Water sources are abundant and include the Big Ditch, Smith Creek, and additional unnamed tributaries.

## **Additional Compartment Information:**

### **The following reports from the Inventory are attached:**

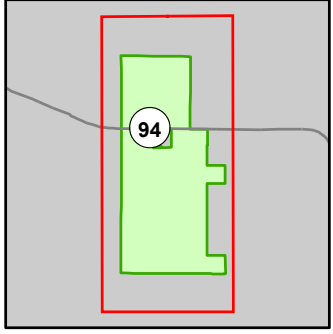
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

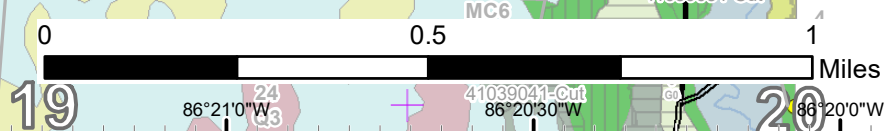
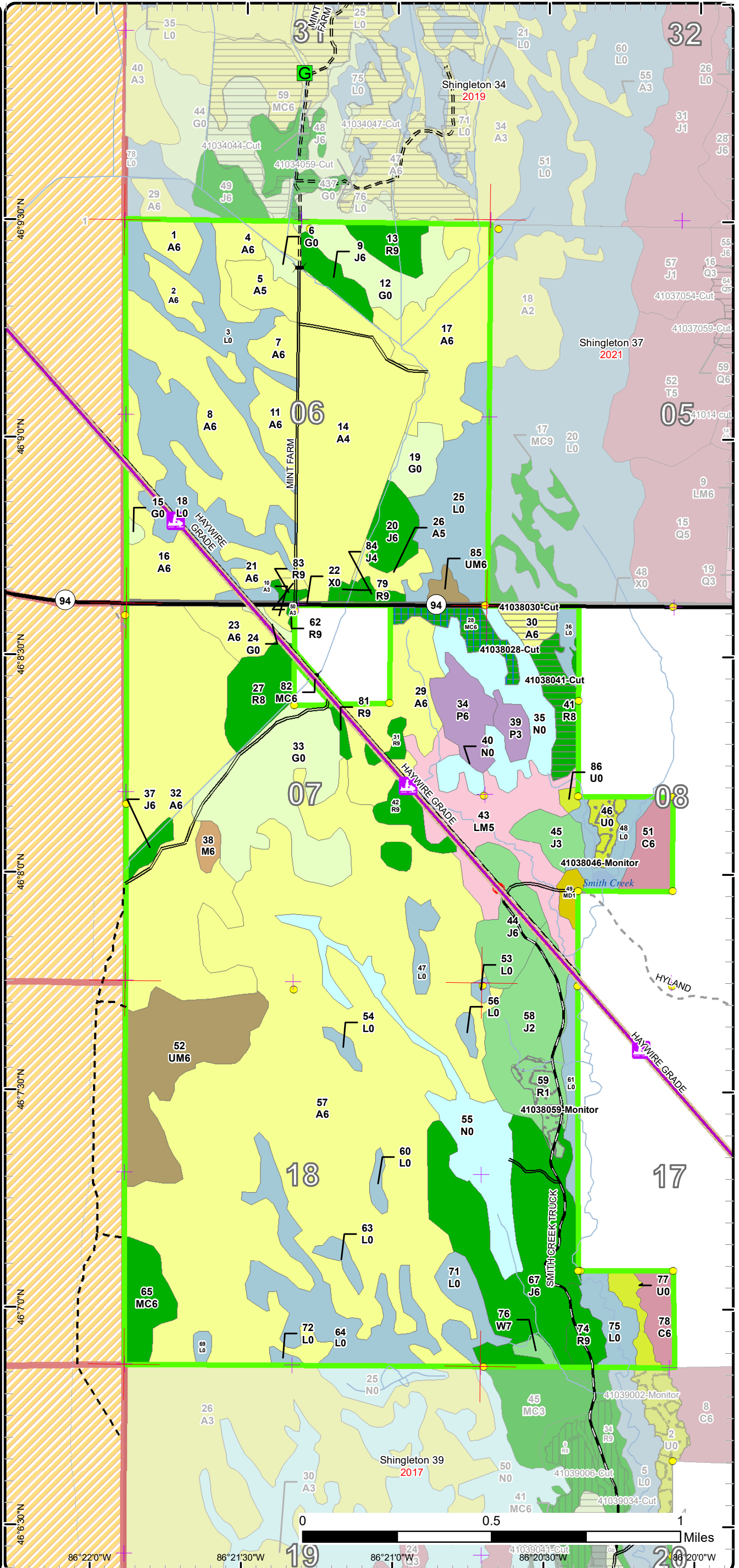
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 38  
 T43N, R16W, Sec: 6-8, 17, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2022  
 Acres: 2,207 GIS Calculated  
 Examiner: Adam Petrelius  
 Map Revised: 8/25/2020  
 Map Phase: Web Post



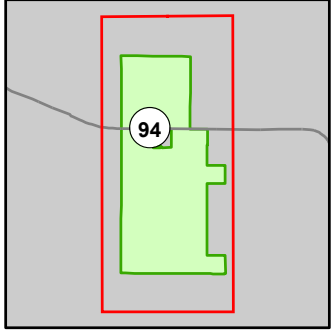
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Bridges
- Sign
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



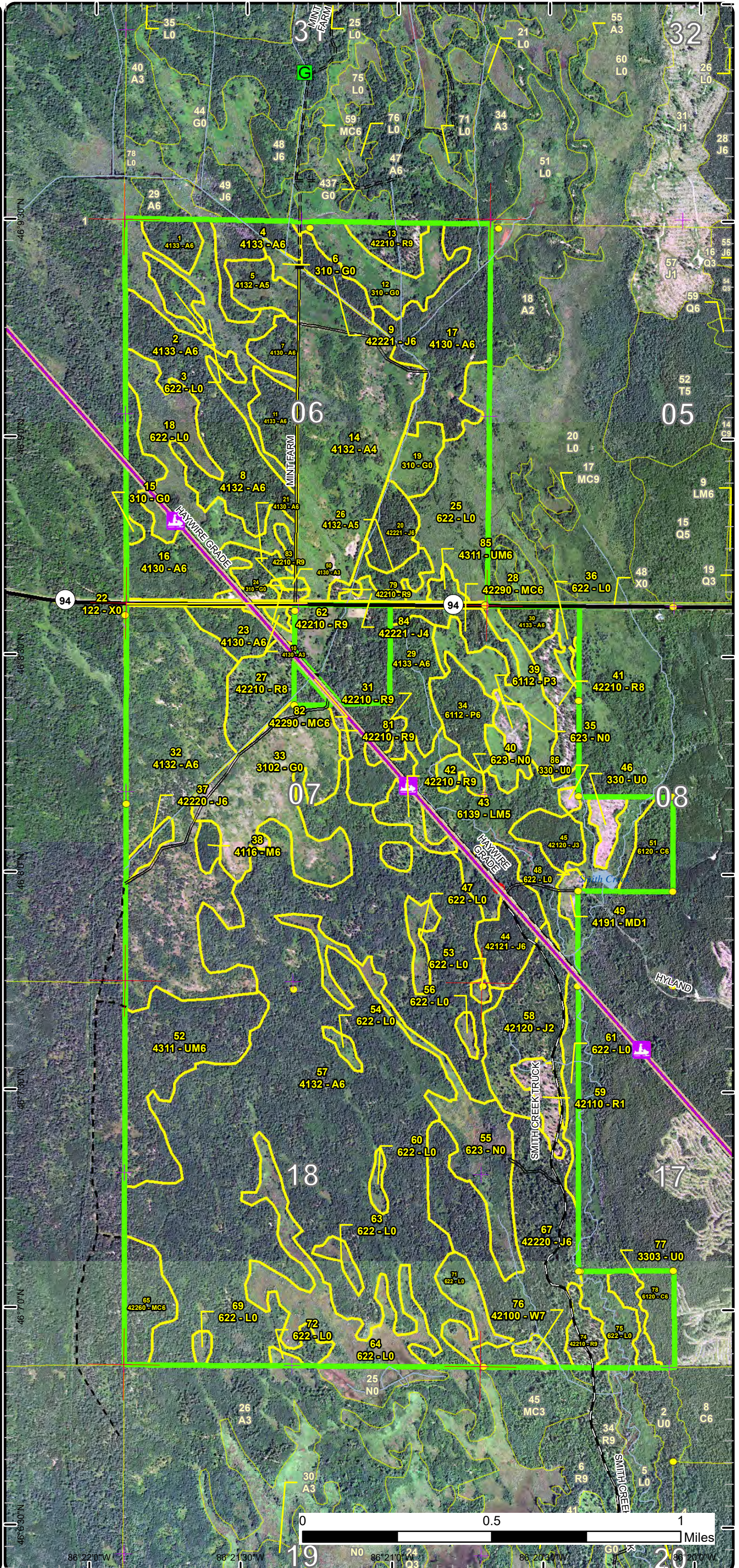


# Stand Boundary Map

Compartment: 38  
 T43N, R16W, Sec: 6-8, 17, 18  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
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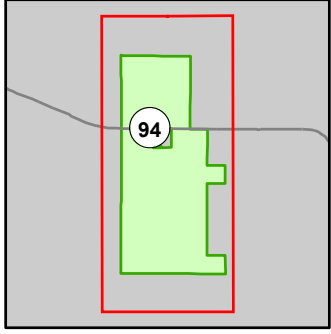
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
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- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Bridges
- STOP Sign
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
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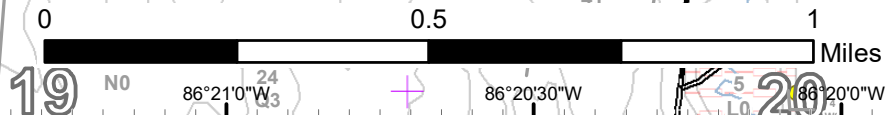
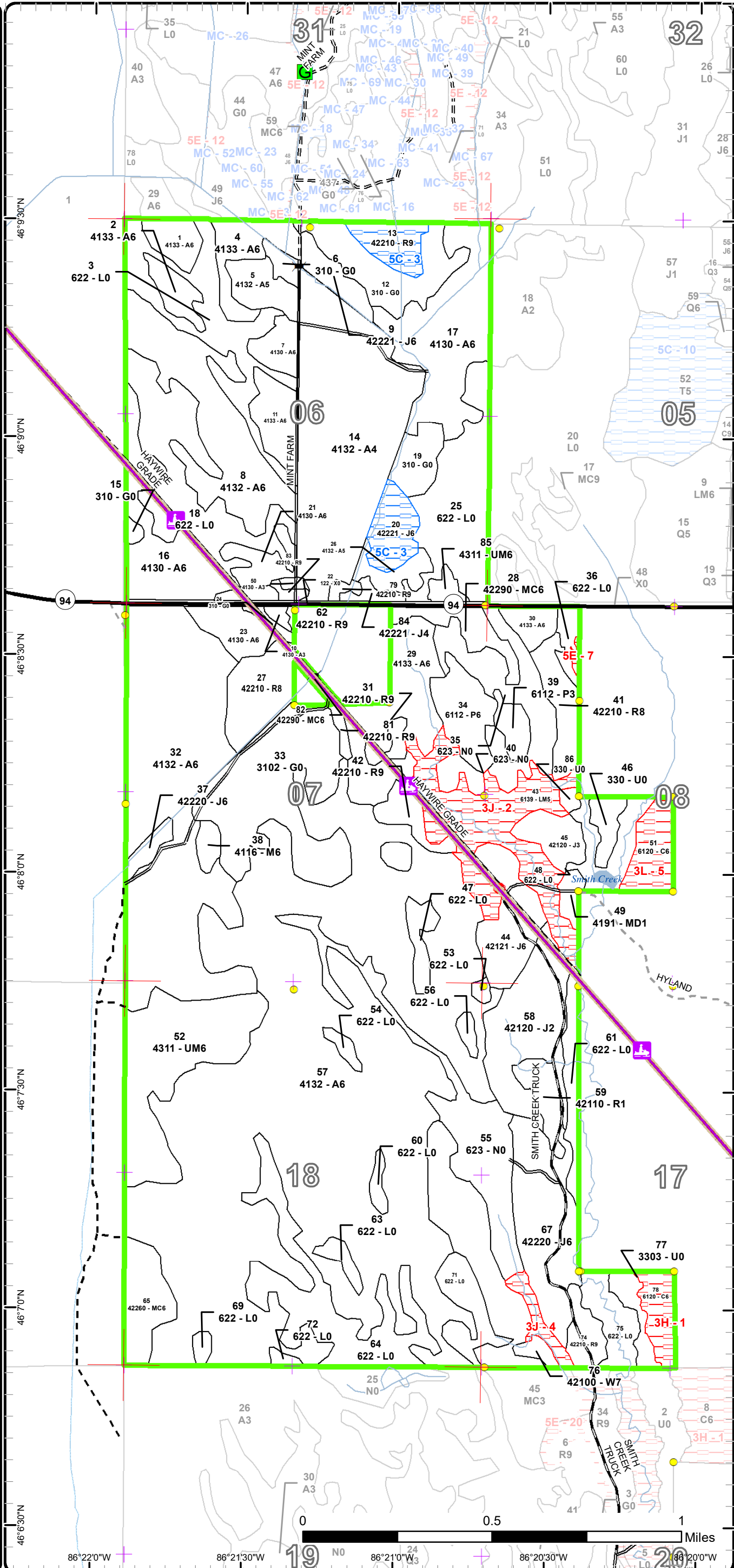


# Special Conservation Areas

Compartment: 38  
 T43N, R16W, Sec: 6-8, 17, 18  
 County: Schoolcraft  
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 Mgmt Area: Seney Manistique Swamp  
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- Miris Corners
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- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Bridges
- Sign
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



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	3	0	213	909	0	8	0	0	0	0	0	0	0	0	0	0	0	1133
Cedar	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Herbaceous Openland	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Jack Pine	0	0	45	40	105	10	15	0	0	0	0	0	0	0	0	0	0	0	213
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	7	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Shrub	294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294
Marsh	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	21	0	0	12	2	0	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	11	0	0	0	0	0	5	52	30	0	0	0	0	0	0	0	0	96
Upland Mixed Forest	0	0	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
<b>Total</b>	<b>531</b>	<b>26</b>	<b>45</b>	<b>316</b>	<b>1126</b>	<b>10</b>	<b>23</b>	<b>17</b>	<b>57</b>	<b>30</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2205</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 38

Total Compartment Acres: 2,207

Commercial Harvest - 36  
 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	Overstory Removal	Salvage	Other	Total Acres
Aspen	8	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	12	0	0	0	0	0	12
Red Pine	16	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	36	0	0	0	0	0	18	0	0	54
Next Step	0	0	0	0	0	0	44	0	0	44
<b>Total</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>98</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>28</b>	<b>41038028-Cut</b>	12.4	42290 - Natural Mixed Pine	Poletimber Well	66	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Cut all species except oak and hemlock. Leave a few scattered pine for seed trees. Retention can be placed on the edge.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Any species currently onsite. Stand is predominantly pine, however it has a heavy aspen component. Due to the location, and stand size, management will be for a mixed stand.											
<u>Other Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>30</b>	<b>41038030-Cut</b>	8.0	4133 - Aspen, Mixed Pine	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription</u> Cut all trees except hemlock and oak if present. Less than 3% retention is acceptable due to small stand size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Mixed deciduous and conifers. Stand will likely regenerate to predominately aspen.											
<u>Other Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
<b>41</b>	<b>41038041-Cut</b>	16.0	42210 - Natural Red Pine	Sawtimber Medium	84	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<u>Prescription</u> Cut all trees except hemlock and oak if present. Leave some scattered seed trees to try and keep red pine as a component in stand.											
<u>Specs:</u> Retention lies within stand 41 which was previously designated as retention last entry.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Mixed deciduous and conifer trees. Stand was harvested last entry and has an understory of mostly aspen.											
<u>Other Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											

**Approved Treatments:**

<b>46</b>	<b>41038046-Monitor</b>	7.2	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(1yr)	42120 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> check regeneration											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> jack pine, red pine, black spruce, white pine											
<u>Other Comment:</u> Percent to Treat = 100%											





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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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Site Condition

Proposed Start Date: 10/1 /2020

<b>59</b>	<b>41038059-Monitor</b>	10.6	42110 - Planted Red Pine	Sapling Poor	3	1-50	Monitoring	Artificial Regen(3yr)	42210 - Natural Red Pine	Two-Aged	No
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Prescription check regeneration

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

**Total Treatment Acreage Proposed: 54.2**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Adam Petrelius : Examiner

Compartment: 38  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		5C	3H	3J	3L	5E
1132	1132	0	0	Aspen					
29	0	0	29	Cedar		12		16	
123	123	0	0	Herbaceous Openland					
213	191	15	7	Jack Pine	15		7		
17	17	0	0	Low-Density Trees					
27	27	0	0	Lowland Aspen/Balsam Poplar					
63	0	0	63	Lowland Mixed Forest			63		
294	294	0	0	Lowland Shrub					
89	89	0	0	Marsh					
5	5	0	0	Mixed Upland Deciduous			0		
35	35	0	0	Natural Mixed Pines					
4	4	0	0	Northern Hardwood					
97	83	13	1	Red Pine	13				1
66	66	0	0	Upland Mixed Forest					
9	9	0	0	Urban					
3	3	0	0	White Pine					
2,207	2,080	28	99	Total Forested Acres	28	12	69	16	1
	94%	1%	4%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Adam Petrelius : Examiner

Compartment: 38  
Year of Entry: 2022

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	63	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold these 2 stands till next year of entry. Look into possibility of harvesting the eastern 1/2 of Section 6 and include former grass stands as well. Would be a similar harvest to what occurred 40 years ago.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	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.

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4133 - Aspen, Mixed Pine	Poletimber Well	9.9	39	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>
Quaking Aspen		70	Pole/Sapling	6	39	Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Pine		10	Pole	9		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		10	Pole/Sapling	6		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		10	Sapling/Pole	4		Willow spp.	Medium	5 - 10 feet	Tall Shrub
2	4133 - Aspen, Mixed Pine	Poletimber Well	8.8	39	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>
Quaking Aspen		70	Pole/Sapling	6	39	Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Pine		10	Pole	9		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		10	Pole/Sapling	6		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		10	Sapling/Pole	4		Willow spp.	Medium	5 - 10 feet	Tall Shrub
3	622 - Lowland Shrub	Nonstocked	42.3			No			
4	4133 - Aspen, Mixed Pine	Poletimber Well	18.0	39	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>
Quaking Aspen		70	Pole/Sapling	6	39	Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Pine		10	Pole	9		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		10	Pole/Sapling	6		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		10	Sapling/Pole	4		Willow spp.	Medium	5 - 10 feet	Tall Shrub
5	4132 - Aspen, Jack Pine	Poletimber Medium	12.9	25	1-50	N/A	flooded in past by beaver? big ditch fire?		
<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>
Quaking Aspen		70	Pole/Sapling	5	25	Willow spp.	Medium	5 - 10 feet	Tall Shrub
Jack Pine		30	Pole/Sapling	5					
6	310 - Herbaceous Openland	Nonstocked	4.1			No	old beaver flooding		
7	4130 - Aspen	Poletimber Well	9.2	39	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>
Quaking Aspen		75	Pole/Sapling	5	39	Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Pine		5	Pole/Log/Sap	9		Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		10	Pole	6		Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry		10	Sapling/Pole	4		Willow spp.	Medium	5 - 10 feet	Tall Shrub





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
8	4132 - Aspen, Jack Pine	Poletimber Well	62.4	39	51-80	N/A																																												
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9	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	9.9	49	81-110	N/A																																												
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13	42210 - Natural Red Pine	Sawtimber Well	12.9	83	81-110	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale # 041-32-12-01. TCR date 7/29/2016																																											
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14	4132 - Aspen, Jack Pine	Poletimber Poor	117.5	35	1-50	N/A	Commercial opening maintenance could be conducted with the adjacent stands in the future.  Ruffed Grouse Society Machine Fecon head cleared most of stand trees and brush. Red Oak and Crabapple saplings were planted along perimeter of stand.																																											
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15	310 - Herbaceous Openland	Nonstocked	1.6			No																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4130 - Aspen	Poletimber Well	37.3	31	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>	
Quaking Aspen		80	Pole/Sapling	6	31	Quaking Aspen	
White Pine		5	Log	12		Willow spp.	
Jack Pine		5	Pole/Sapling	7		Medium	
Black Cherry		5	Pole/Sapling	6		Density	
Paper Birch		5	Pole/Sapling	6		Avg. Height	
						Size	
17	4130 - Aspen	Poletimber Well	58.5	39	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>	
Quaking Aspen		70	Pole	7	39	Quaking Aspen	
Red Pine		4	Log	14		Willow spp.	
Jack Pine		6	Pole/Sapling	6		Low	
Black Cherry		20	Pole	7		Density	
						Avg. Height	
						Size	
18	622 - Lowland Shrub	Nonstocked	57.6	0		No	sparse aspen clones on ridges, lowland shrub in low ground
19	310 - Herbaceous Openland	Nonstocked	12.4		Unspecified	No	
20	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	14.8	59	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>	
Quaking Aspen		40	Pole	8		Quaking Aspen	
Jack Pine		60	Pole	8	59	Black Cherry	
						Willow spp.	
						Medium	
						Density	
						Avg. Height	
						Size	
21	4130 - Aspen	Poletimber Well	10.6	30	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>	
Quaking Aspen		90	Pole/Sapling	6	30	Willow spp.	
Jack Pine		10	Pole/Sapling	7		High	
						Density	
						Avg. Height	
						Size	
22	122 - Road/Parking Lot	Nonstocked	8.7			No	
23	4130 - Aspen	Poletimber Well	13.1	32	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>	
Quaking Aspen		85	Pole/Sapling	6	32	Quaking Aspen	
Red Pine		5	Pole/Log	9		Red Pine	
Jack Pine		5	Pole/Sapling	6		Low	
Black Cherry		5	Sapling/Pole	3		Density	
						Avg. Height	
						Size	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	310 - Herbaceous Openland	Nonstocked	2.5			No			
25	622 - Lowland Shrub	Nonstocked	50.3			No			
26	4132 - Aspen, Jack Pine	Poletimber Medium	8.4	35	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>
Quaking Aspen		80	Pole/Sapling	6	35	Quaking Aspen	Low	5 - 10 feet	Sapling
Jack Pine		20	Pole/Sapling	6		Jack Pine	Low	5 - 10 feet	Sapling
27	42210 - Natural Red Pine	Sawtimber Medium	23.1	72	81-110	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01. TCR Date of 7/29/2016.		
<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		5	Log/Pole	10		Quaking Aspen	High	5 - 10 feet	Sapling
Red Pine		95	Log/Pole	10	72	White Pine	Low	5 - 10 feet	Sapling
						Red Pine	Low	5 - 10 feet	Sapling
						Jack Pine	Low	5 - 10 feet	Sapling
28	42290 - Natural Mixed Pine	Poletimber Well	12.4	66	81-110	N/A	red pine occurs in patches and is not thick enough to thin. jp and aspen is still healthy		
<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>
Quaking Aspen		25	Pole	7		Black Spruce	Low	5 - 10 feet	Sapling
Red Pine		55	Log/Pole	12	66	Red Pine	Low	5 - 10 feet	Sapling
Jack Pine		15	Pole	8		Willow spp.	Low	5 - 10 feet	Tall Shrub
Black Spruce		5	Pole	6					
29	4133 - Aspen, Mixed Pine	Poletimber Well	44.0	26	1-50	N/A	Stand was formerly jack pine prior to harvest in 1986.		
<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>
Quaking Aspen		65	Pole/Sapling	5	26	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine		5	Sapling/Pole	4		White Pine	Medium	5 - 10 feet	Sapling
Red Pine		5	Sapling/Pole	4		Red Pine	Low	5 - 10 feet	Sapling
Jack Pine		15	Pole/Sapling	6		Alder	Low	5 - 10 feet	Tall Shrub
Black Cherry		10	Pole/Sapling	5					
30	4133 - Aspen, Mixed Pine	Poletimber Well	8.0	50	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>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		70	Pole	8	50	Black Spruce	Low	10 - 20 feet	Sapling
Black Spruce		5	Pole/Sapling	5		White Pine	Low	< 5 feet	Sapling
Red Pine		15	Log/Pole	12		Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine		10	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
31	42210 - Natural Red Pine	Sawtimber Well	4.2	70	51-80	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01. TCR Date of 7/29/2016.																																					
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32	4132 - Aspen, Jack Pine	Poletimber Well	155.8	28	51-80	N/A	stand cut in 1975. opening maint. in 1991 (not 100 % sure). Washington Hawthorn and Siberian Crab were planted here in 1975. Southwest corner.																																					
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33	3102 - Grass	Nonstocked	72.7			Managed Opening	open maint. occurred in 2005. Red Oak and crabapple were planted along the perimeter of the stands.																																					
34	6112 - Lowland Aspen	Poletimber Well	19.9	32	51-80	N/A																																						
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38	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.5	38	51-80	N/A	Appears to be a pocket that was left from opening maintenance which contains a lot of cherry																																					
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<b>41</b>	42210 - Natural Red Pine	Sawtimber Medium	17.0	84	51-80	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01. TCR Date of 7/29/2016.																																																																																	
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<b>43</b>	6139 - Mixed Lowland Forest	Poletimber Medium	63.0	28	Immature	N/A	a lot of low pockets of alder. FTP C41-1426 is CLOSED. Work completed under ORV grant.																																																																																	
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45	42120 - Planted Jack Pine	Sapling Well	12.4	24	1-50	N/A																																															
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46	330 - Low-Density Trees	Nonstocked	7.2	0	Unspecified	4222 - Natural Jack Pine	Cut in winter 2016, Day Before Derby Sale. Trenched in summer 2018. Planted in spring 2020, 770 tpa.																																														
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49	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4.8	6	1-50	N/A	Stand has passed regeneration check in summer 2018. It was scarified by DNR staff 4 years ago. Mixed regeneration is present now which was acceptable. It is located in a flood plain at the intersection of some creeks and drainages. The regeneration that currently exists onsite will be accepted and site will not be trenched for this reason.																																														
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50	4130 - Aspen	Sapling Well	1.3	5	1-50	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01.																																														
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<b>51</b>	6120 - Lowland Cedar	Poletimber Well	16.3	100	111-140	N/A	ridges have big white pine, cedar, and hemlock. low ground is smaller cedar																																										
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<b>52</b>	4311 - Pine, Aspen Mix	Poletimber Well	62.5	30	Immature	N/A																																											
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<b>54</b>	622 - Lowland Shrub	Nonstocked	3.0			No																																											
<b>55</b>	623 - Emergent Wetland	Nonstocked	48.1			No																																											
<b>56</b>	622 - Lowland Shrub	Nonstocked	2.8			No																																											
<b>57</b>	4132 - Aspen, Jack Pine	Poletimber Well	539.2	30	Immature	N/A	Stand was clearcut as part of a large sharptail block in early 1980's and follow up opening maintenance occurred in late 1980s. Previously had more red pine, white pine, jack pine.																																										
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<b>58</b>	42120 - Planted Jack Pine	Sapling Medium	44.5	18	1-50	N/A	Harvested in 1992 with Mad Hornet Sale 1999 regen check showed 19% success rate. Ridges were machine planted in 2001. 2006 regen check - 174 jack pine, 46 red pine, 23 white pine, 70 aspen, 46 black spruce. 2007 regen check 336 jack pine, 26 black spruce, 8 white pine, 67 red pine, 2 tamarack, 37 aspen. 2008 - FTP was closed with a letter.																																										
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59	42110 - Planted Red Pine	Sapling Poor	10.5	3	1-50	N/A	all speces except red pine removed 10 years ago. regen is decent stand was cut in July 2015. On FTP 1530 for red pine regeneration. Stand was trenched in June 2016. Planted in spring 2017 with red pine. 1st year regen check - 780 RP, 80 volunteers				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		70	Sapling	1	3	Red Maple		Low	5 - 10 feet	Sapling	
Jack Pine		10	Sapling	1		Black Spruce		Low	5 - 10 feet	Sapling	
White Pine		10	Sapling	1		White Pine		Medium	5 - 10 feet	Sapling	
Red Maple		10	Sapling	1		Red Pine		Medium	5 - 10 feet	Sapling	
						Jack Pine		Medium	5 - 10 feet	Sapling	
60	622 - Lowland Shrub	Nonstocked	3.3				No				
61	622 - Lowland Shrub	Nonstocked	12.4				No				
62	42210 - Natural Red Pine	Sawtimber Well	0.7	66	81-110	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01. TCR Date of 7/29/2016.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		90	Log/Pole	12	66	Red Pine		Low	5 - 10 feet	Sapling	
White Pine		10	Log	12		White Pine		Low	5 - 10 feet	Sapling	
63	622 - Lowland Shrub	Nonstocked	4.4				No				
64	622 - Lowland Shrub	Nonstocked	52.2				No				
65	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	20.8	30	Immature	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		30	Pole/Sapling	7		White Pine		Low	10 - 20 feet	Sapling	
White Pine		5	Pole/Log	8		Red Pine		Low	5 - 10 feet	Sapling	
Red Pine		10	Pole/Log	9		Jack Pine		Medium	10 - 20 feet	Sapling	
Jack Pine		50	Pole/Sapling	6	30	Black Cherry		Low	10 - 20 feet	Sapling	
Black Cherry		5	Pole/Sapling	5							
67	42220 - Natural Jack Pine	Poletimber Well	95.5	33	1-50	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		15	Pole/Sapling	5		White Pine		Low	5 - 10 feet	Sapling	
Black Spruce		5	Pole/Sapling	5		Red Pine		Medium	5 - 10 feet	Sapling	
Red Pine		10	Log/Pole	12		Jack Pine		Medium	5 - 10 feet	Sapling	
Jack Pine		70	Pole/Sapling	5	33	Alder		Low	5 - 10 feet	Tall Shrub	
69	622 - Lowland Shrub	Nonstocked	2.4				No				



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71	622 - Lowland Shrub	Nonstocked	15.5			No																																												
72	622 - Lowland Shrub	Nonstocked	1.8			No																																												
74	42210 - Natural Red Pine	Sawtimber Well	9.7	73	51-80	N/A	3 age classes-90,63,23 yrs Stands was cut in July 2015. It is on FTP 1530 for red pine planting if needed, but there are no planting areas available. Regen was protected well and it will not need planting.																																											
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75	622 - Lowland Shrub	Nonstocked	14.9			No																																												
76	42100 - Planted White Pine	Sawtimber Poor	3.4	71	1-50	N/A	Stand cut in July 2015. On FTP 1530 for planting of red pine. Planted in spring 2017. site received extra trees since it was end of day. Regeneration checked in fall 2019. Passed and will likely get combined with adjacent stand in future YOE.																																											
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77	3303 - Mixed Low Density Trees	Nonstocked	7.7	0	Unspecified	429 - Mixed Upland Conifers	Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.). Quality checks: 0.00% too deep, 0.00% bad stem angle, 0.00% too loose, 0.00% "J" rooted. Weather: calm and clear, 80 degrees. Stocking = Stand 77; 682 trees/ac actual, 620 trees/ac plot data. Stand 2; 706 trees/ac actual, 675 trees/ac plot data. Total cost = \$152.70/ac  1 year regeneration check was done in fall 2018. About 70% survival of planted seedlings. Much natural regeneration is present also mostly composed of white pine, black spruce, red maple. All species are considered acceptable. Since red pine planting in this location was just to supplement the stand and maintain a component, no further regeneration work will be done. Also, access prevents future trenching.																																											
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<b>81</b>	42210 - Natural Red Pine	Sawtimber Well	2.5	72	81-110	N/A	[12/12/2016 TI] Stand was cut as part of the Day Before Derby Sale #41-032-12-01. TCR Date of 7/29/2016.																																													
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<b>82</b>	42290 - Natural Mixed Pine	Poletimber Well	2.1	72	81-110	N/A																																														
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<b>84</b>	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	3.5	35	1-50	N/A																																														
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<b>85</b>	4311 - Pine, Aspen Mix	Poletimber Well	3.9	35	1-50	N/A																																														
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<b>86</b>	330 - Low-Density Trees	Nonstocked	1.9	0		4222 - Natural Jack Pine	Cut in winter 2016, Day Before Derby Sale. Access for trenching and planting is not possible due to creeks.																																													