



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41054

Entry Year 2022

Acreage: 1,983

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2020-05-08

Stand Examiner: Adam Petrelius

Legal Description:

T43N R14W, Sections 16, 17, 18

Identified Planning Goals:

Compartment 54 lies within the Seney Manistique Swamp Management Area.

Soil and topography:

The topography within the compartment is mostly flat with a few rolling hills. Elevation values range between 650-673 feet. Approximately half of the compartment is forested and half is non-forested. The two main forested cover types are natural jack pine and natural red pine. The 2 main soil types are Markey Mucky Peat and Rousseau-Neconish-Finch. Major habitat types within the compartment, in order of abundance, are Unclassified Lowland, PVE, and PARVAa.

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

State land within this compartment was acquired between 1827 and 1941. The compartment is entirely surrounded by state land except for one private 40 acre parcel in the northeast. The compartment is used mostly by hunters, ORV users, and snowmobile riders.

Unique Natural Features:

Wood Turtle (*Clemmys insculpta*, state special concern) have been known to inhabit riparian areas within the compartment. Prescribed treatments in this compartment are unlikely to adversely impact this species when best management practices are followed along these riparian corridors.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Poor. Duck Creek is classified SQWW. There is no need to protect Duck Creek from encroachment by beaver, but protection from increased sand bedload is still a high priority.

Wildlife Habitat Considerations:

Compartment 54 lies within south-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. It has a growing season of less than 100 days. Extreme minimum winter temperatures reach -46 F. Annual snowfall averages around 110 inches.

Pre-settlement upland forests were dominated by jack pine and red pine. White pine and aspen also occurred. Wetlands contained vast expanses of marshes and peatlands. Lowland forest contained black spruce, balsam fir, and cedar. Natural disturbance regimes included fire and beaver ponding. Duck creek runs north to south through the center of this compartment. Current upland vegetation types are similar in composition, but not in structure, to pre-settlement conditions. Jack pine and red pine dominate the ridges. Lowlands remain relatively unchanged since pre-settlement times.

Wildlife habitat objectives for this compartment include maintaining structural diversity within the pine system while providing travel corridors that will allow animals to move undetected through the cover of mature forest. 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. Other wildlife species of interest include fisher, least chipmunk, long-tailed weasel, sedge wren, and sandhill crane. Although not documented, it is possible that yellow rail exists within this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Queenston Shale subcrops below the glacial drift. The Queenston does not have an economic use. The nearest gravel pit is 3 miles to the south. There is limited gravel potential on State lands.

Vehicle Access:

Vehicle access is poor. Only one good road, Highwater Truck Trail, splits the compartment in half.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Highwater Truck Trail is a snowmobile trail and serves as the main access route through 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. The Seney Fire of 1976 burned through much of the eastern portion. Access is poor to most areas and lightning fires during dry summer months could create problems. Water sources are abundant and include the Duck Creek, Walsh Ditch, Dougal Creek, and other tributaries of these creeks.

Additional Compartment Information:

The following reports from the Inventory are attached:

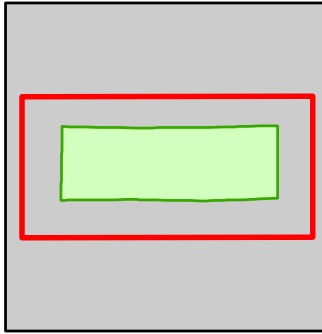
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

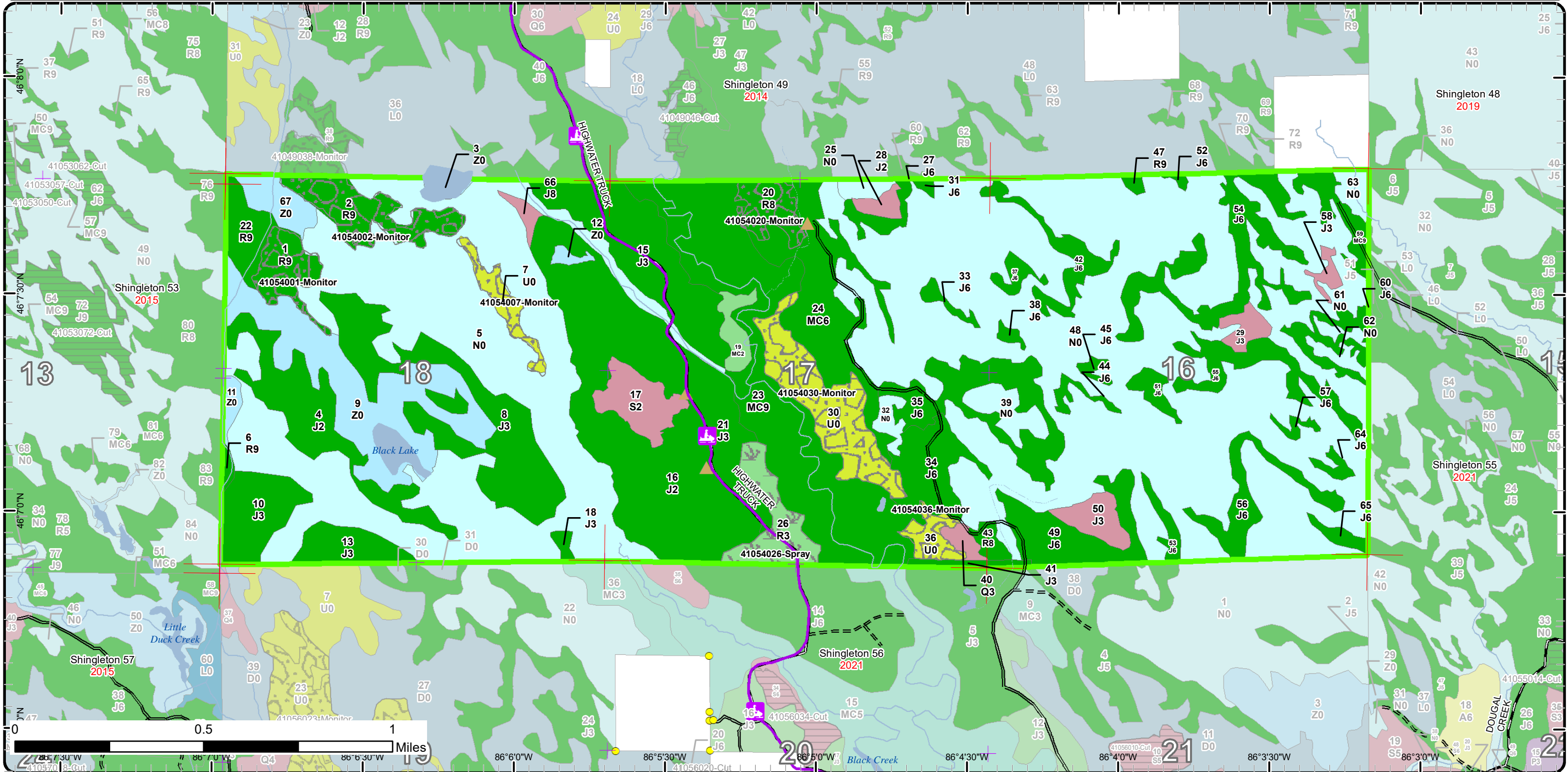
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 54
 T43N, R14W, Sec: 16-18
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2022
 Acres: 1,983 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 8/25/2020
 Map Phase: Web Post

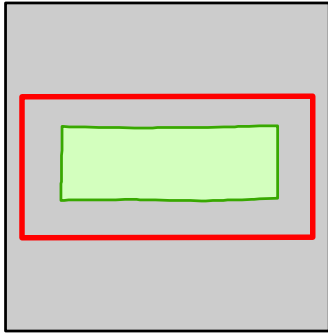


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Pesticide
- Regeneration Survey
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland

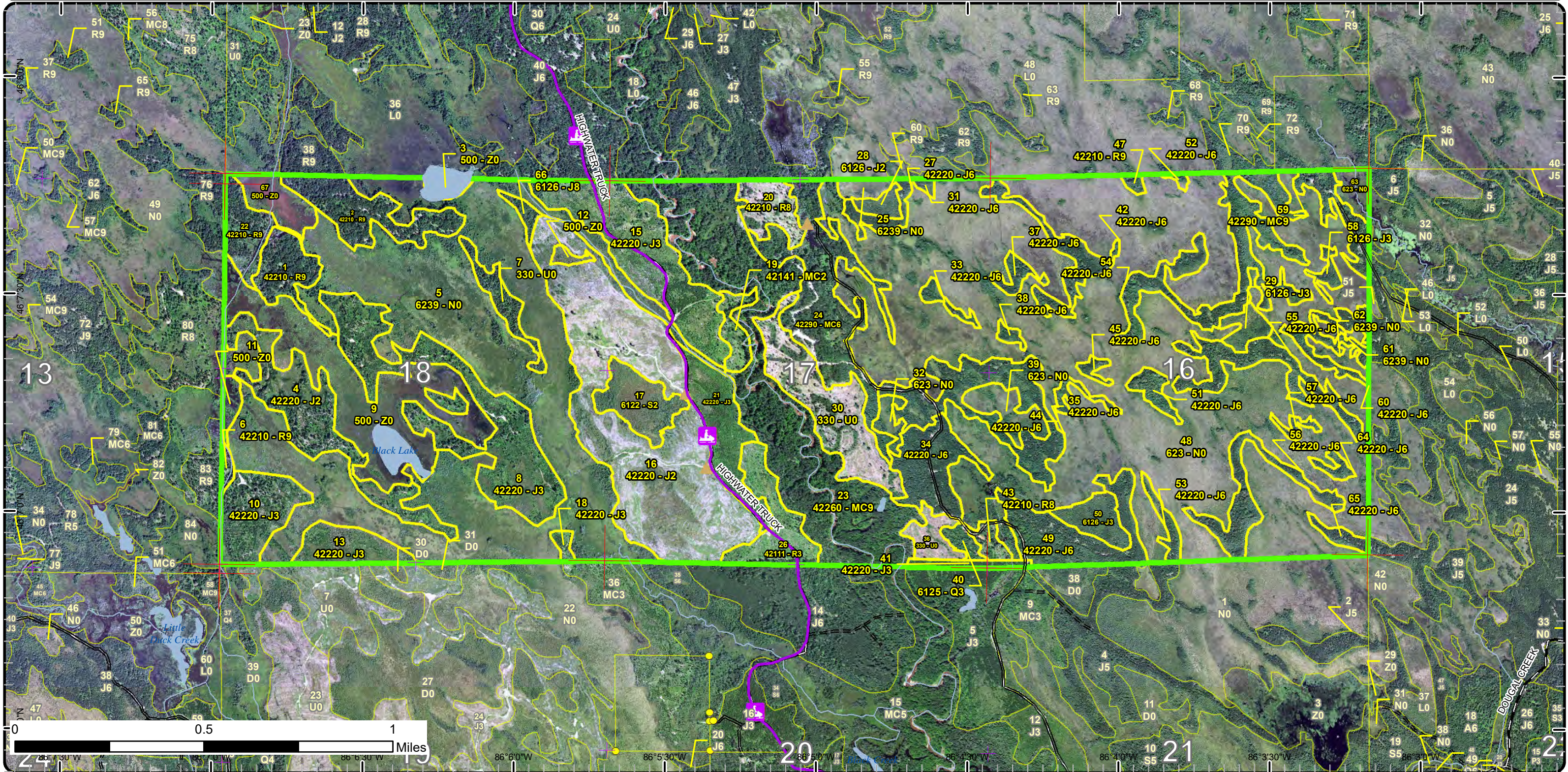


Stand Boundary Map

Compartment: 54
 T43N, R14W, Sec: 16-18
 County: Schoolcraft
 Unit: Shingleton
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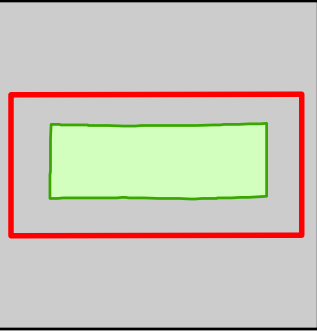


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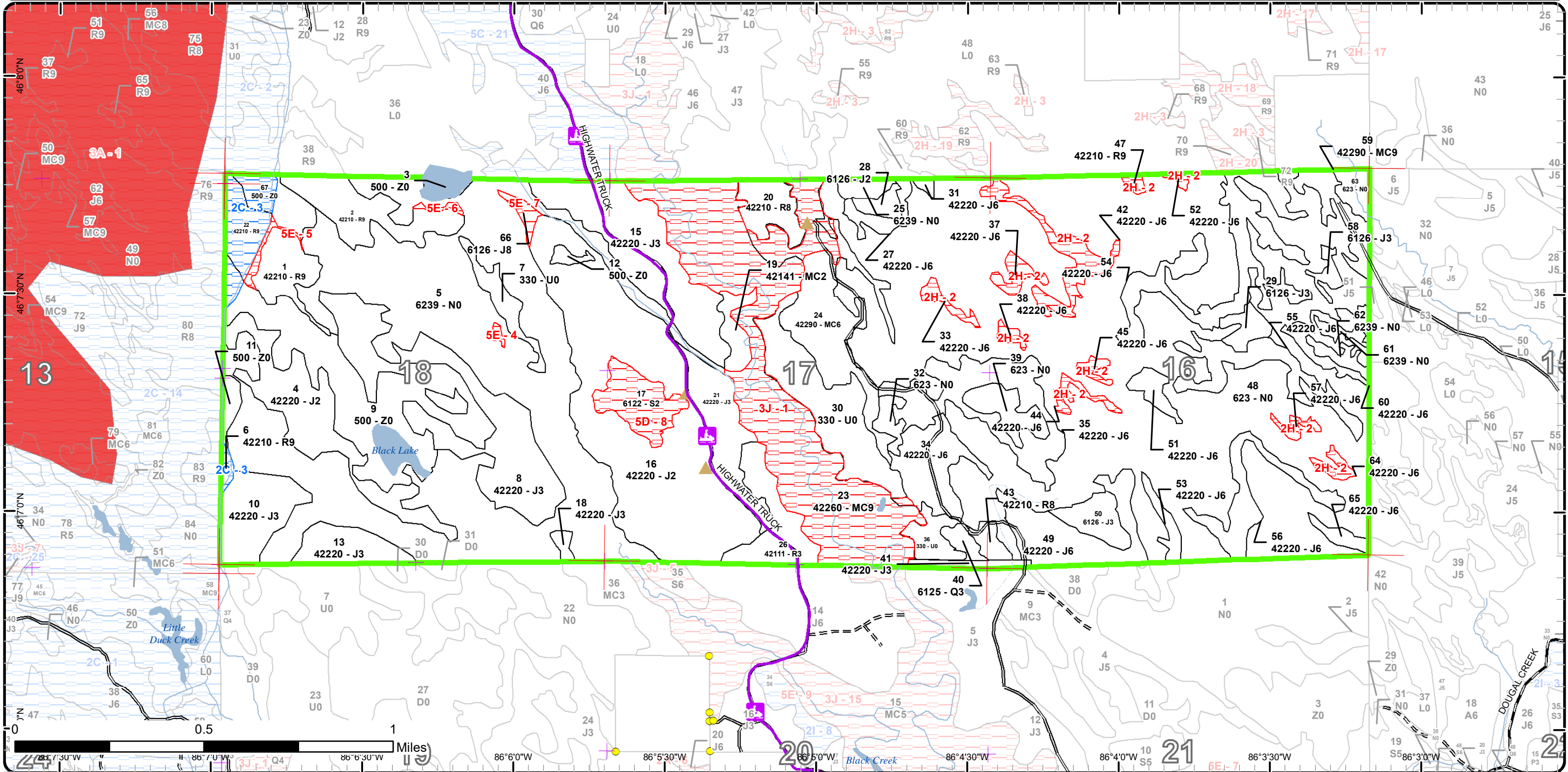


Special Conservation Areas

Compartment: 54
 T43N, R14W, Sec: 16-18
 County: Schoolcraft
 Unit: Shingleton
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- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas



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+	Unnever-Aged	Total
Jack Pine	0	136	236	0	0	259	3	0	0	0	0	0	0	0	0	0	0	0	634
Low-Density Trees	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Marsh	874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	874
Natural Mixed Pines	0	0	0	0	0	53	0	0	11	0	0	127	0	0	0	0	0	0	191
Planted Mixed Pines	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	22	0	0	0	0	0	0	6	59	14	0	0	0	0	0	0	0	101
Water	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Total	1029	166	236	4	0	312	21	0	17	59	14	127	0	0	0	0	0	0	1985



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 54
Total Compartment Acres: 1,983

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	22	113	0	0	135
Next Step	0	14	14	0	14	14	30	22	0	106
Total	0	14	14	0	14	35	143	22	0	241



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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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Approved Treatments:

1	41054001-Monitor	15.8	42210 - Natural Red Pine	Sawtimber Well	81	81-110	Monitoring	Natural Regen (Intermediate)	42210 - Natural Red Pine	Uneven-Aged	No	<p><u>Prescription</u> check regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable</u> Natural regeneration of red pine, jack pine, and white pine is acceptable.</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 /2029</p>
2	41054002-Monitor	26.4	42210 - Natural Red Pine	Sawtimber Well	80	51-80	Monitoring	Natural Regen (Intermediate)	42210 - Natural Red Pine	Uneven-Aged	No	<p><u>Prescription</u> check regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable</u> Natural regeneration of red pine, jack pine, and white pine is acceptable.</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 /2029</p>
7	41054007-Monitor	9.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	No	<p><u>Prescription</u> monitor</p> <p><u>Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable</u> any species onsite</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 /2029</p>



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	20 41054020-Monitor	13.6	42210 - Natural Red Pine	Sawtimber Medium	94	1-50	Monitoring	Natural Regen (Intermediate)	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> check regeneration <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, (Inactive)Skidder/Mechanical; Burn, Slash; SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u></p> <p><u>Acceptable</u> A mix of red pine, white pine, and jack pine. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</p>											
	26 41054026-Spray	21.7	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	7	1-50	Pesticide	Hand Application	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> small site, aspen is main competition issue. could be done by hand crew <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use; Other, Pre-Commercial Thinning - Hand <u>Treatments:</u></p> <p><u>Acceptable</u> red pine <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	30 41054030-Monitor	39.4	330 - Low-Density Trees	Nonstocked	0		Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3 year regen check <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> red pine, jack pine, white pine, black spruce <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	36 41054036-Monitor	8.2	330 - Low-Density Trees	Nonstocked	0		Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> 3 year regen check <u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen(1yr) <u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine, black spruce, jack pine <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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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Total Treatment Acreage Proposed: 134.6

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 54
Year of Entry: 2022

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2C 2H 3J 5D 5E

634	595	0	39	Jack Pine	35	1	18	3
57	57	0	0	Low-Density Trees		0		
4	4	0	0	Lowland Conifers				
18	0	0	18	Lowland Spruce/Fir			18	
874	871	0	3	Marsh		1		2
191	50	0	141	Natural Mixed Pines		141		
8	8	0	0	Planted Mixed Pines				
100	81	15	4	Red Pine	15	1	0	2
98	90	8	0	Water	8			
1,983	1,755	23	205	Total Forested Acres	23	37	143	18
	89%	1%	10%	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	3J: Water quality / BMPs (stream, river, or lake)	143	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 54
Year of Entry: 2022

3	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 7							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 1							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention for stand 2							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 16							
8	Unavailable	5D: Unproductive Forest Land	18	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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
1	42210 - Natural Red Pine	Sawtimber Well	15.6	81	81-110	N/A	Stand was cut as part of Wide Open Spaces Sale #41-009-12-01. TCR Date 9/26/2018.																															
<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>Red Pine</td> <td>90</td> <td>Log</td> <td>14</td> <td>81</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Log	14	81	White Pine	10	Log	14		<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>Quaking Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	5 - 10 feet	Sapling	Red Pine	Low	< 5 feet	Sapling								
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3	500 - Water	Nonstocked	3.7			No																																
4	42220 - Natural Jack Pine	Sapling Medium	41.8	18	1-50	N/A	Stand was winter cut 2001. 2006 regen counts= 380 jack pine, 176 red pine, 88 aspen, 7 white pine 278 black spruce, 929 total trees per acre.																															
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5	6239 - Mixed Emergent Wetland	Nonstocked	299.4			No																																
6	42210 - Natural Red Pine	Sawtimber Well	2.0	81	51-80	N/A	Stand harvested with sale to the west, 13 mile Pine.																															
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7	330 - Low-Density Trees	Nonstocked	9.3	0	Unspecified	4222 - Natural Jack Pine	Cut in winter of 2018. Stand was listed on FTP 1525 for jack pine scarification. There is no possible access to stand and the majority of it was used for road construction.																															
8	42220 - Natural Jack Pine	Sapling Well	67.2	18	1-50	N/A	Stand cut winter 2001. 2006 regen counts= 380 jack pine, 176 red pine, 88 aspen, 7 w.pine, 278 black spruce, 929 total trees per acre.																															
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9	500 - Water	Nonstocked	75.7			No																																



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10	42220 - Natural Jack Pine	Sapling Well	25.5	18	1-50	N/A	Stand winter cut 2001. 2006 regen counts= 380 jack pine, 176 red pine, 88 aspen, 7 white pine, 278 black spruce, 929 total trees per acre.																									
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11	500 - Water	Nonstocked	4.0			No																										
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13	42220 - Natural Jack Pine	Sapling Well	15.7	18	1-50	N/A	Stand winter cut 2001. 2006 regen counts= 380 jack pine, 176 red pine, 88 aspen, 7 white pine, 278 black spruce, 929 total trees per acre.																									
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15	42220 - Natural Jack Pine	Sapling Well	54.2	16	1-50	N/A	Southern portion of stand was cut in Jan. 2003 and then scarified. Remaining portion of stand was cut in Dec. of 2003 and scarified in 2007. Regen did not happen in this portion and it was seeded in March of 2008. Regen is unsuccessful within this portion. TMS decided to count this stand before trenching. Came back to 1,000 TPA.																									
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16	42220 - Natural Jack Pine	Sapling Medium	135.6	5	1-50	N/A	Cut with sale Wide Open Spaces. Scarified by DNR staff. Regen checked in 2018 and passed.																									
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18	42220 - Natural Jack Pine	Sapling Well	2.1	18	1-50	N/A	Cut with stand 36 in compartment 56 in Feb. of 2002. 2006 regen counts= 391 jp, 163rp, 391 b.sp., 228 red map.																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Medium	7.8	6	1-50	N/A	Stand cut in 2005, some jp & b sp seedlings coming in. Stand was planted in spring 2015 with red pine. Year 1 regeneration counts - 475 red pine. Stand lacks suitable planting areas, but should be planted again next time we are in the area. Site was forwarded to TMS for planting. Planting never occurred and stand was placed back into monitoring status. Stand was planted and understory is now 3 years old. passed 2018 regen check with 600 TPA where suitable planting areas existed.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	50	Sapling/Pole	1	6
Jack Pine	10	Sapling	1	
Red Maple	25	Sapling	1	
White Pine	10	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
Red Pine	Low	< 5 feet	Sapling

20	42210 - Natural Red Pine	Sawtimber Medium	13.5	94	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log/XLog	14	
Red Pine	75	Log/XLog	14	94
Red Oak	5	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Medium	< 5 feet	Sapling

21	42220 - Natural Jack Pine	Sapling Well	24.7	13	1-50	N/A	Cut in May of 2005, scarified in July of 2007, trenched and planted in spring of 2008. The 2009 regen. check shows 1737 jack pine. 3 year regen check needed in 2011. (6/17/2011 AP) Stand passed 3 year regen check and all cult work is complete. FTP is still open for stand to the north.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	80	Sapling	1	13
Quaking Aspen	15	Sapling	1	
Red Pine	5	Log	12	

22	42210 - Natural Red Pine	Sawtimber Well	14.6	81	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Log	14	81
White Pine	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	5 - 10 feet	Sapling
Red Pine	Low	< 5 feet	Sapling

23	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	126.9	101	111-140	N/A	Lots of drainages and oxbows. Factor limit for BMP's.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole	5	
Paper Birch	5	Pole	5	
Quaking Aspen	5	Pole	5	
Northern White Cedar	5	Log	10	
Red Pine	55	Log	14	101
Jack Pine	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Jack Pine	Low	5 - 10 feet	Sapling
Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Alder	Medium	5 - 10 feet	Tall Shrub

24	42290 - Natural Mixed Pine	Poletimber Well	52.6	43	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole/Sapling	7	43
Black Spruce	10	Pole/Sapling	5	43
White Pine	5	Pole/Sapling	5	43
Red Pine	20	Log/Pole	13	
Jack Pine	45	Pole/Sapling	7	43

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Red Pine	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
25	6239 - Mixed Emergent Wetland	Nonstocked	4.4			No																														
26	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	21.7	7	1-50	N/A	Seed tree cut in 2005. harvested with wide open spaces timbersale and trenched. Planted in spring 2015. 1000 tpa red pine in year 1 count. Year 3 check showed 810 red pine.																													
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27	42220 - Natural Jack Pine	Poletimber Well	6.1	43	51-80	N/A	Stand result of Seney fire 1976																													
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28	6126 - Lowland Jack Pine	Sapling Medium	4.3	43		N/A	Wet ground creating stunted trees.																													
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							<p>5/9/2018: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).</p> <p>Quality checks: 0.00% too deep, 0.00% bad stem angle, St 22; 1.67% too loose, St 30; 2.35% too loose, St 22; 7.14% "J" rooted, St 30; 4.00% "J" rooted.</p> <p>Weather: scattered clouds, rain in the afternoon, 65 degrees.</p> <p>Stocking = Stand 22; 510 trees/ac actual, 1025 trees/ac plot data. Stand 30; 500 trees/ac actual, 947 trees/ac plot data. **Trees/ac actual seems low because of amount of low ground not planted.</p> <p>Total cost = \$110.70/ac</p> <p>10/1/2018: 1st year regeneration check showed 70% survival of red pine. Other species component of white pine, black spruce, jack pine was present though which are acceptable.</p>																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
31	42220 - Natural Jack Pine	Poletimber Well	1.2	43	1-50	N/A	Stand result of Seney fire in 1976.																																				
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36	330 - Low-Density Trees	Nonstocked	8.3	0		4212 - Planted Jack Pine	Stand was cut in winter of 2016, South East Side Duck sale. 41-008-12-01. Stand was trenched in summer 2017.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 42220 - Natural Jack Pine Poletimber Well 4.3 43 51-80 N/A Stand result of Seney fire 1976

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	5	43	Black Spruce	Medium	10 - 20 feet	Pole
Red Pine	5	Log	14					
Jack Pine	75	Pole	5	43				
Tamarack	10	Pole/Sapling	5					

38 42220 - Natural Jack Pine Poletimber Well 1.7 43 51-80 N/A Stand result of Seney fire 1976

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole/Sapling	5	43	Black Spruce	Medium	10 - 20 feet	Sapling
Red Pine	5	Log	14					
Jack Pine	60	Pole	5	43				
Tamarack	10	Pole/Sapling	5					
White Pine	10	Log	14					

39 623 - Emergent Wetland Nonstocked 11.2 No

40 6125 - Lowland Black Spruce, Jack Pine Sapling Well 3.9 25 1-50 N/A There has been some cutting in the past. Area is periodically flooded by beaver.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	3		Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	40	Sapling	3	25	Black Spruce	Medium	5 - 10 feet	Sapling
Red Pine	10	Sapling	3					
Jack Pine	10	Sapling	3					
Tamarack	10	Sapling	3					
Paper Birch	5	Sapling	3					
White Pine	10	Sapling	3					

41 42220 - Natural Jack Pine Sapling Well 4.4 15 1-50 N/A Part of stand that was cut in adjacent compartment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Sapling	3	15	Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	5	Sapling	3	15				
Jack Pine	90	Sapling	3	15				

42 42220 - Natural Jack Pine Poletimber Well 14.5 43 51-80 N/A Stand result of Seney fire 1976.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	5	43	Black Spruce	Medium	10 - 20 feet	Sapling
Red Pine	10	Log	14					
Jack Pine	80	Pole	5	43				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	42210 - Natural Red Pine	Sawtimber Medium	4.3	75	1-50	N/A	Cut in 2017
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	Log/Pole	12		Black Spruce	
Red Pine		90	Log/Pole	12	75	Red Pine	
						Jack Pine	
						Tamarack	
						White Pine	
						Red Maple	
						Alder	
						Density	
						Avg. Height	
						Size	
						Medium	
						Variable	
						Low	
						< 5 feet	
						< 5 feet	
						10 - 20 feet	
						5 - 10 feet	
						5 - 10 feet	
						5 - 10 feet	
						Tall Shrub	
44	42220 - Natural Jack Pine	Poletimber Well	3.4	43	1-50	N/A	Stand result of Seney fire in 1976
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14			
Jack Pine		90	Pole	5	43		
						Density	
						Avg. Height	
						Size	
						Medium	
						10 - 20 feet	
						Sapling	
45	42220 - Natural Jack Pine	Poletimber Well	2.1	43	1-50	N/A	Stand result of Seney fire.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14			
Jack Pine		90	Pole	5	43		
						Density	
						Avg. Height	
						Size	
						Medium	
						10 - 20 feet	
						Sapling	
47	42210 - Natural Red Pine	Sawtimber Well	1.5	75	81-110	N/A	Stand result of Seney fire in 1976.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		70	Log	14	75		
Jack Pine		25	Pole	5	43		
						Density	
						Avg. Height	
						Size	
						Medium	
						10 - 20 feet	
						Sapling	
48	623 - Emergent Wetland	Nonstocked	541.7			No	
49	42220 - Natural Jack Pine	Poletimber Well	28.4	43	1-50	N/A	Stand regenerated from the Seney fire in 1976
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Pole	5	43	Black Spruce	
Jack Pine		70	Pole	5	43		
Red Pine		10	Log/Pole	14			
						Density	
						Avg. Height	
						Size	
						Low	
						5 - 10 feet	
						Sapling	
50	6126 - Lowland Jack Pine	Sapling Well	10.5	43	1-50	N/A	Stand result of Seney fire in 1976. Ground is lowland with stunted trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		40	Sapling	1	43		
Jack Pine		60	Sapling	1	43		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	42220 - Natural Jack Pine	Poletimber Well	5.4	43	1-50	N/A	Stand result of Seney fire.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		90	Pole	5	43	Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
52	42220 - Natural Jack Pine	Poletimber Well	1.0	43	51-80	N/A	Stand result of Seney fire 1976.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		90	Pole/Sapling	7	43	Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
53	42220 - Natural Jack Pine	Poletimber Well	4.6	43	1-50	N/A	Stand result of Seney fire 1996
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		90	Pole	5	43	Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
54	42220 - Natural Jack Pine	Poletimber Well	40.2	43	51-80	N/A	Stand result of Seney fire
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		90	Pole	6	43	Avg. Height	
						Size	
						10 - 20 feet	
						Sapling	
55	42220 - Natural Jack Pine	Poletimber Well	20.3	43	51-80	N/A	Stand result of Seney fire 1976
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		80	Pole	6	43	Avg. Height	
Tamarack		5	Pole/Sapling	5		Size	
						10 - 20 feet	
						Sapling	
56	42220 - Natural Jack Pine	Poletimber Well	17.7	43	1-50	N/A	Stand result of Seney fire.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		5	Pole	5	43	Black Spruce	
Red Pine		5	Log	14		Density	
Jack Pine		90	Pole	5	43	Avg. Height	
						Size	
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						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
57	42220 - Natural Jack Pine	Poletimber Well	2.2	43	1-50	N/A	Stand result of Seney fire 1976.																																				
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65	42220 - Natural Jack Pine	Poletimber Well	3.6	43	1-50	N/A	Stand result of Seney fire 1976																												
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