



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41065

Entry Year 2027

Acreage: 1,310

County: Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Thomas Burnis

Legal Description:

T43N R14W Sections 31-33

T43N R15W Section 36

Identified Planning Goals:

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

Soil and topography:

Preliminary soils information including Habitat Types can be found in the specific stand comments. In general, the soils are moderately drained sandy soils on the uplands and poorly drained organic soils on the low ground. The topography is rolling terrain consisting mostly of upland pine types. The West half of the compartment contains areas of lowland marsh between the pine ridges. The East half is intermixed with lowland brush and drainages as it gets closer to the Manistique River. The entire compartment lies within the Manistique Sloughs/Muskeg Land Type Association.

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

This compartment is 2 miles long and 1 mile wide of mostly contiguous state land, with some private lands intermixed. Development consists of permanent dwellings and hunting camps. Hunting is the main use within the compartment.

Unique Natural Features:

Eastern portion of compartment contains the Manistique River Floodplain PLU.

Wood turtle to s, sw, and nw.

Potential for red-shouldered hawk, goshawk, wood turtle, eagle, osprey, loon, and great blue heron rookery. Potential for gray wolf and moose.

Potential for auricled twayblade along Manistique River. Potential for lake-cress, autumnal water star-wort, Farwell's water-milfoil, alternate-leaved water-milfoil and alga pondweed along creeks and in small lakes. Potential for wetland plants such as Canada rice grass, black sedge, clinton's bulrush, Vasey's rush, sweetcoltsfoot, slender spike-rush, Wiegand's sedge, panicked screw-stem, linear-leaved gentian, appressed club-moss, and auricled twayblade. Possibly dwarf bilberry, flat oatgrass, Canada rice-grass and slender spike-rush in open areas, particularly jack pine.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Stands along the Manistique River offer diverse riparian corridors which sometimes contain unique species such as bur oak, elm and green ash within several of the hardwood stands. The corridor was also identified in 2000 by Wildlife Division as a Deeryard. All stands identified as Deeryard were coded as Special Conservation Areas (SCA's).

Watershed and Fisheries Considerations:

This compartment contains Little Duck Creek and the Main Branch Manistique River. Little Duck Creek and the Main Branch Manistique River are non-designated stream that have predicted mean July water temperatures of 62.6 and 69.6°F (cold and cool stream), respectively. 100-foot, plus 5 feet per 1% increase in slope, riparian management zones are recommended for Little Duck Creek and the Main Branch Manistique River to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies on the west side of the Manistique River. The first surveyors recorded sugar maple, elm, hemlock, yellow birch, white pine, balsam fir, and red pine as the dominant upland tree species. Other species found in the uplands include basswood, oak, beech, white birch, aspen, jack pine and red maple. Tamarack, black spruce, and white cedar were recorded in the lowlands.

Current forest composition is skewed heavily toward jack pine in the western portion of the compartment while the eastern portion appears fairly similar in species composition to the pre-settlement forest. Featured species in this compartment are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The wildlife habitat objectives in this compartment include providing functional deciduous forests along the Manistique River corridor and promoting early

successional conifer forest in the western portion of the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is up to 10 feet of glacial drift thickness. The Silurian Manitoulin Dolomite and Cabothead Shale subcrop below the glacial drift. The Manitoulin is quarried for stone. The nearest gravel pit is one-half mile to the south, but potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Most of compartment is accessible by conventional two wheel drive vehicles on two track dirt roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no facilities. Opportunities include hunting and snowmobiling.

Fire Protection:

Response times to fires within the compartment will be relatively slow due to its location. Fire operations will be challenging in some areas due to the lack of roads and the number of creeks present. The compartment has a mix of fuel types but there is a fair amount of jack pine in varying age classes which could potentially lead to some larger fires due response times, location and this volatile fuel type given the proper weather conditions.

Additional Compartment Information:

☐ The following 5 reports from the Operations Inventory System (OIPC) are attached:

- Cover Type by Age Class
- Cover Type by Management Objective
- Compartment Volume Summary
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors

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

- Base feature information, stand numbers, cover types
- Proposed treatments
- Proposed road access system
- Suggested potential old growth

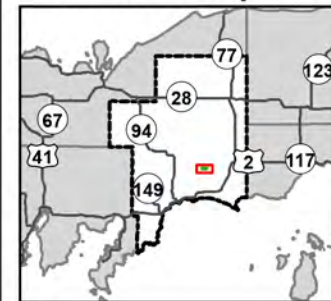
The following reports from the Inventory are attached:

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: 41065
T42N, R14W, Sec: 5
T43N, R14W, Sec: 31-33
T43N, R15W, Sec: 36
County: Schoolcraft
Unit: Shingleton
Mgmt. Area: Seney Lake Plain
YOE: 2027
Acres: 1,310 GIS Calculated
Examiner: Thomas Burnis
Date Exported: 07/30/2025
Map Phase: Web Post

0.5

1

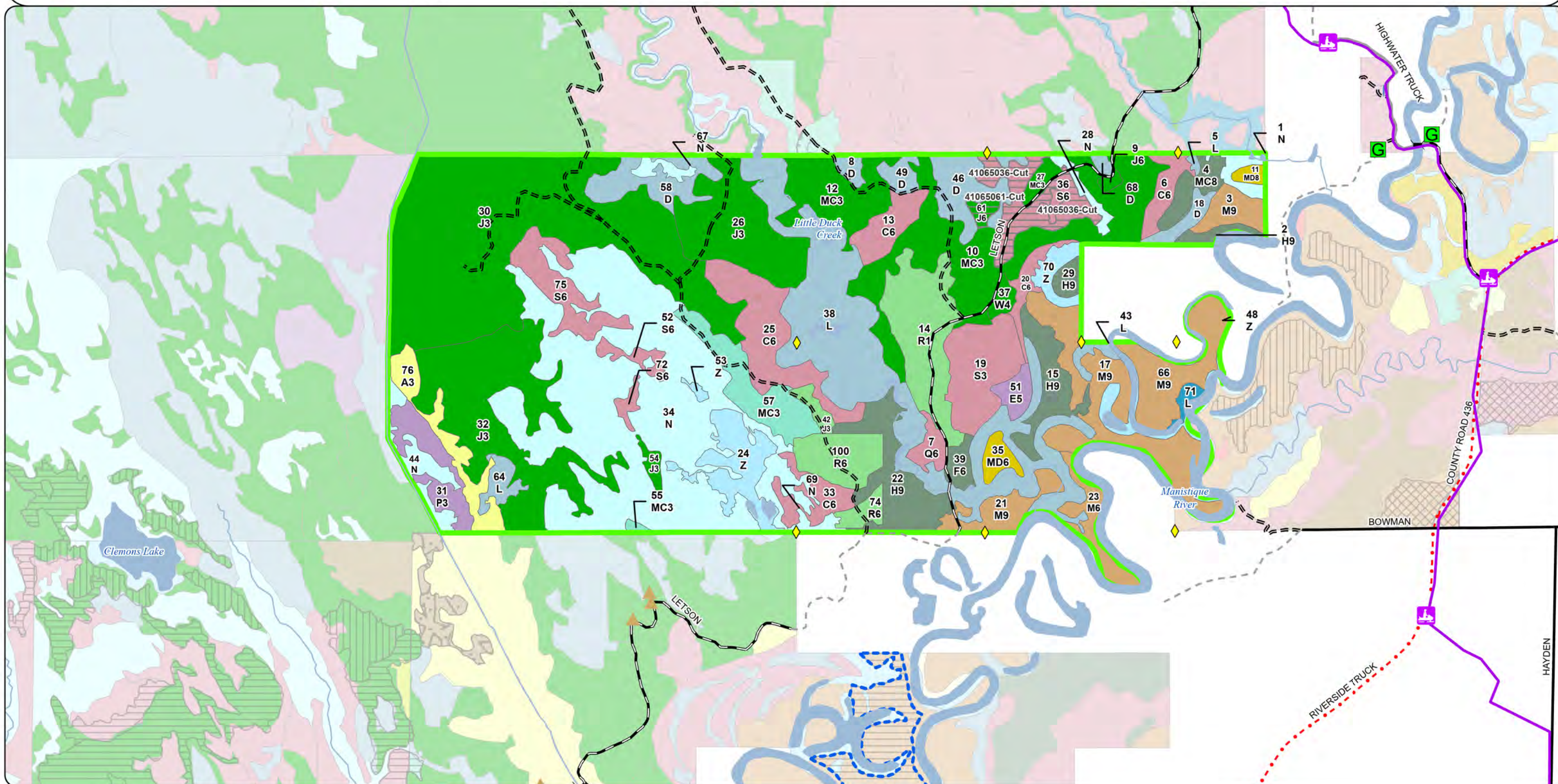
Miles

- ◆ Survey Grade Corners
- ▲ Berms
- Gate
- ✕ Bridges
- ⌒ Culvert
- Designated Snowmobile Trails
- DNR - Primary Forest Road

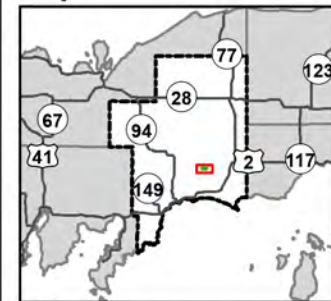
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties

- Compartment Boundary
- Clearcut
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



Stand Boundary Map



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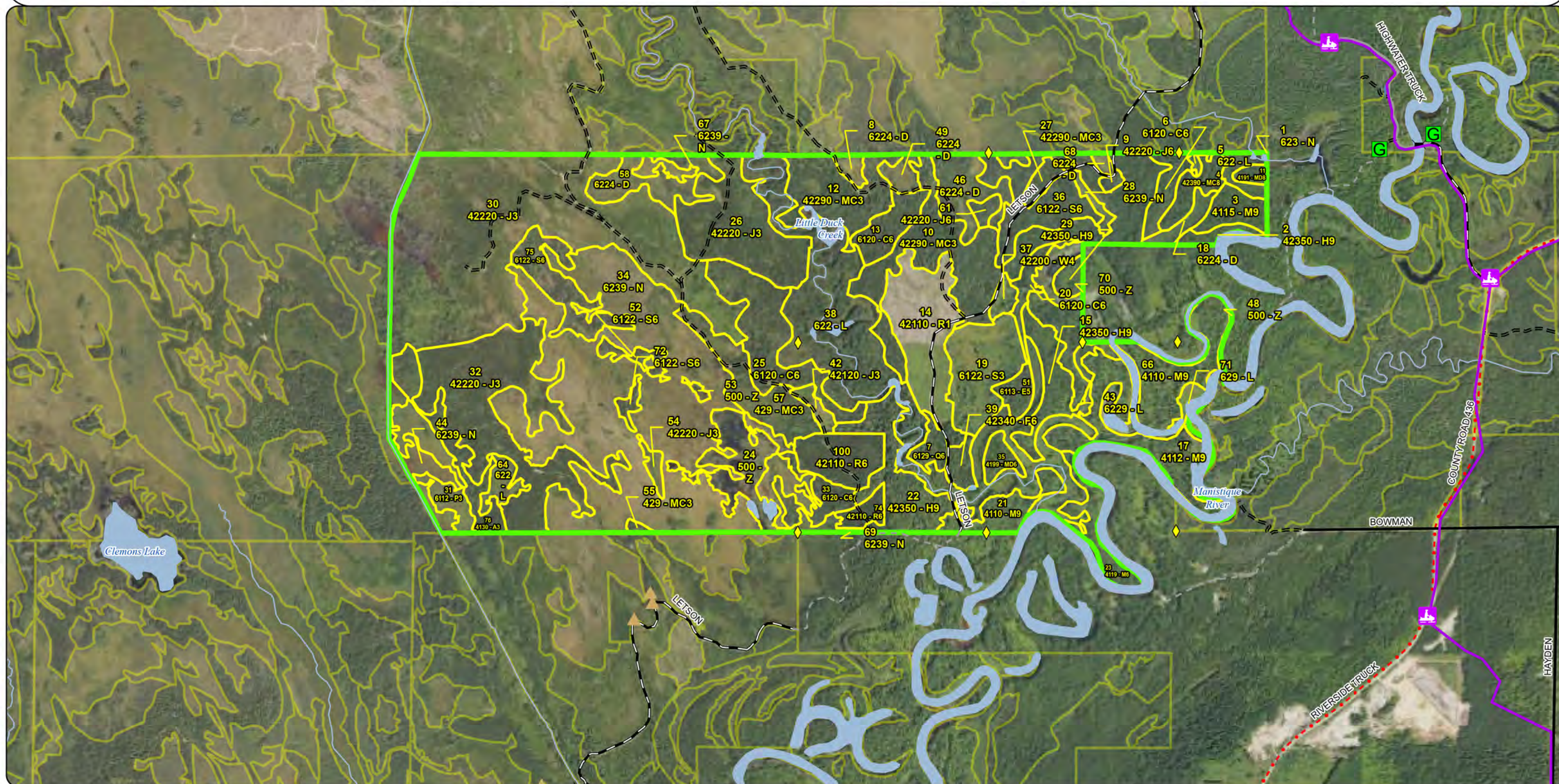
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Special Conservation Areas & Site Conditions Map

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0.5

1

Miles

Survey Grade Corners

Berms

Gate

Bridges

Culvert

Designated Snowmobile Trails

DNR - Primary Forest Road

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Perennial River

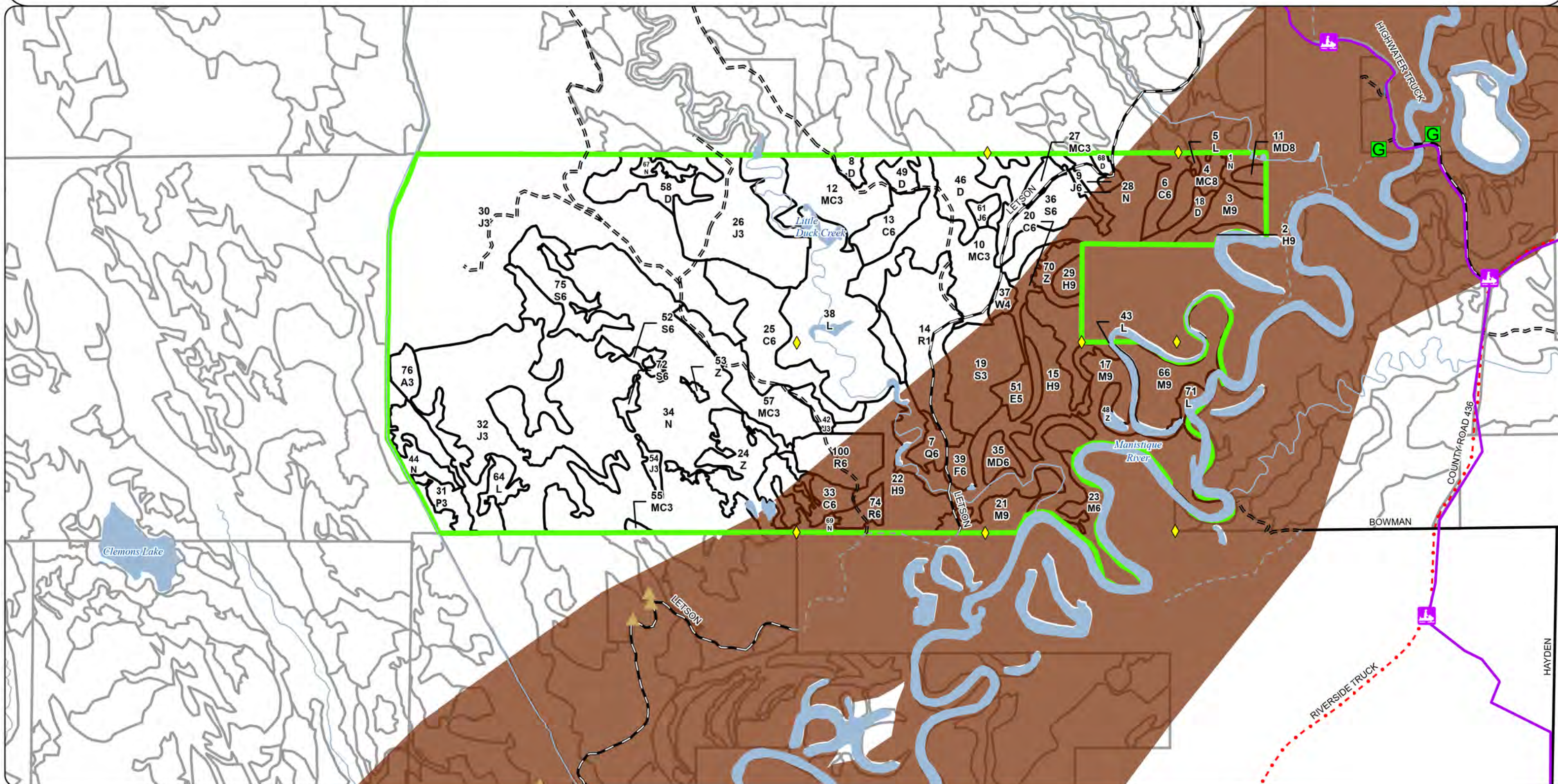
Lakes and Rivers

Counties

Compartment Boundary

Stand Boundaries

Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Thomas Burnis: Examiner



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	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Cedar	0	0	0	0	0	0	0	0	0	0	27	0	0	44	0	0	0	0	70
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	36	0	52
Jack Pine	0	4	172	123	0	0	0	0	0	1	3	0	0	0	0	0	0	0	303
Lowland Aspen/Balsam Poplar	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Lowland Shrub	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
Lowland Spruce/Fir	0	0	29	0	0	0	0	0	0	22	28	0	0	0	0	0	0	0	79
Marsh	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	7
Natural Mixed Pines	0	0	0	0	106	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	104
Red Pine	0	39	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Treed Bog	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Upland Conifers	0	0	0	24	0	0	0	0	0	9	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Water	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
White Pine	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	441	43	201	203	109	0	0	0	0	43	65	0	0	44	17	0	36	110	1309



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 65
Total Compartment Acres: 1,310

Commercial Harvest - 50
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearecut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine		3	0	0	0	0	0	0	0	0	3
Lowland Spruce/Fir		22	0	0	0	0	0	0	0	0	22
Total		25	0	0	0	0	0	0	0	0	25

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		25	0	0	0	0	0	0	0	0	25
Next Step		0	0	0	0	0	25	0	0	0	25
Total		25	0	0	0	0	25	0	0	0	50



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:

36	41065036-Cut	22.3	6122 - Black Spruce	6	97	81-110	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
<u>Prescription</u> Cut all species except Red pine, White pine and Hemlock. Retention as indicated. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> any existing species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
61	41065061-Cut	2.8	42220 - Natural Jack Pine	6	91	Unspecified	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all trees. Retention not necessary due to small size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any of existing species <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment 25.1
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2H 3H 3J 3L 5E

17	17	0	0	Aspen					
70	26	0	44	Cedar				44	
52	0	0	52	Hemlock		20	4	28	
303	301	0	1	Jack Pine					1
16	16	0	0	Lowland Aspen/Balsam Poplar					
5	0	0	5	Lowland Conifers		5			
6	6	0	0	Lowland Deciduous					
126	126	0	0	Lowland Shrub					
57	36	0	21	Lowland Spruce/Fir					21
218	218	0	0	Marsh					
8	2	0	5	Mixed Upland Deciduous	5				
106	106	0	0	Natural Mixed Pines					
70	49	0	21	Northern Hardwood			12		9
62	62	0	0	Red Pine					
51	51	0	0	Treed Bog					
33	33	0	0	Upland Conifers					
5	5	0	0	Upland Spruce/Fir					
46	46	0	0	Water					
3	3	0	0	White Pine					
1,252	1,102		150	Total Forested Acres	5	25	16	72	31
	88%		12%	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		3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Directly adjacent to winter deer range and is favorable for winter deer range. Also, difficult to regenerate.								

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis: Examiner

Compartment: 65
Year of Entry: 2027



2	Unavailable	5E: Long-Term Retention	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retained as retention to stand 30.							
3	Unavailable	3L: Other wildlife concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Directly adjacent to winter deer range and is favorable for winter deer range. Also, difficult to regenerate.							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hemlock stand along river within deer range is difficult to regenerate. Also, mature hemlock stands are favorable fisher habitat. Fisher tracks seen in this stand.							

Report 4 – Site Conditions



9	Unavailable	3L: Other wildlife concerns	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mature hemlock stand favorable for fisher. Also, difficult to regenerate species.							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	9	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	623 - Emergent Wetland	None	5.3			No	Soil-491D Clemons-Deford Complex																																			
2	42350 - Upland Hemlock	Sawtimber Well	4.3	151	141-170	N/A	SCA-Deeryard																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td></td><td>16</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>20</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Hemlock</td><td>80</td><td></td><td>12</td><td>151</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5		14		Yellow Birch	5		16		White Pine	5		20		Northern White Cedar	5	Seedling	7		Hemlock	80		12	151	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
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3	4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.6	92	111-140	N/A	Was part of "Little Duck Creek" sale 1987, was never cut due to inaccessibility. SCA-Deeryard Soil-491D Clemons-Deford Complex Patches of Hemlock. Stand contains seasonal Drainages.																																			
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4	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	9.1	82	51-80	N/A	SCA-Deeryard Soil-491D Clemons-Deford Complex Large Cedar , WB dying out , Heavy Fir Understory.																																			
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5	622 - Lowland Shrub	None	0.8			No	SCA-Deeryard Soil-491D Clemons-Deford Complex																																			
6	6120 - Lowland Cedar	Poletimber Well	8.3	92	141-170	N/A	SCA-Deeryard Soil- 491D Clemons-Deford Complex																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>2</td><td></td><td>16</td><td></td></tr><tr><td>Black Spruce</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Northern White Cedar</td><td>90</td><td>Seedling</td><td>5</td><td>92</td></tr><tr><td>Hemlock</td><td>3</td><td></td><td>14</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	2		16		Black Spruce	5	Seedling	5		Northern White Cedar	90	Seedling	5	92	Hemlock	3		14																
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.4	97			N/A																																																																
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8	6224 - Treed Bog	None	3.1				No	OPIC - FMD: OI Stand Year Origin was																																																															
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9	42220 - Natural Jack Pine	Poletimber Well	1.4	88	51-80		N/A	OPIC - FMD: SCA-Deeryard Soil- 20E Rousseau-Neconish-Spot Complex. High knob of jack pine. Was not cut with "Little Duck Creek" sale.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Seedling</td><td>7</td><td>88</td></tr><tr><td>Black Spruce</td><td>20</td><td>Seedling</td><td>5</td><td></td></tr></table>									Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	80	Seedling	7	88	Black Spruce	20	Seedling	5																																																	
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10	42290 - Natural Mixed Pine	Sapling Well	73.4	36	1-50		N/A	Part of "Little Duck Creek" sale 002-87.OPIC - FMD: Close FTP C41-807																																																															
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11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	2.4	93	81-110		N/A	Part of "Little Duck Creek" sale 1987. SCA-Deeryard Soil-491D Clemons-Deford Complex. White birch dead, medium stocked red maple poles, converting to fir. Thick fir understory is about 20 feet tall. Soil-491D Clemons-Deford Complex.																																																															
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12	42290 - Natural Mixed Pine	Sapling Well	28.1	36	1-50		N/A	OPIC - FMD: Close FTP C41-807 Soil-20E Rousseau-Neconish-Spot Complex12/10/24 TB: Part of "Little Duck Creek" sale #02-87																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	43.6	92	51-80	N/A	Stand was cut as part of Sale #41-030-17-01 River Points & Red Pine. TCR Date 8/12/2019																																																	
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>3</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Northern White Cedar</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Hemlock</td><td>3</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>70</td><td></td><td>11</td><td>92</td></tr><tr><td>Red Maple</td><td>20</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Seedling</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Basswood	3	Seedling	8		Northern White Cedar	2	Seedling	8		Hemlock	3		10		Sugar Maple	70		11	92	Red Maple	20	Seedling	8		Paper Birch	2	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hazelnut (Spp.)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	Red Maple	Medium	10 - 20 feet	10 - 20 feet	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet	SCA-Deeryard Soil- 490B Pelkie-Moquah-Arnhiem Complex 10/15/24 TB: RM stump sprouts where RM exists but HM areas are heavy to raspberry and hazel. Fir coming in throughout stand.	
Canopy Species	% Cover	Size Class	DBH	Age																																																				
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18	6224 - Treed Bog	None	5.3			No	SCA-Deeryard Soil-491D Clemons-Deford Complex																																																	
19	6122 - Black Spruce	Sapling Well	28.7	16	Immature	N/A	OPIC - FMD: SCA-Deeryard Red and white pine logs mixed throughout. Fir is falling apart. Cut everything except hemlock. Also leave scattered white pine seed trees, by marking with green paint, if they occure on wind firm soils. Do a 100% tally on red and white pine logs. Any of the current species mix will be an acceptable MO. Cut stand on dry ground only to provide some scarification and to prevent plowing the snowmobile trail in the winter. Add operating caution into sale specs. To accomplish this. Plant acorns and hemlock where possible after cutting.[2/22/07 BB] Stand is now on proposal, 006-07 Little Duck Sale. Actual Stand acres = 28 and residual volumes are 4.8' of White Pine and 15.9' of hemlock.(1/6/08 AP) Logger asked for written waiver to cut sale in winter. Snowmobile trail is currently being plowed by another logger. Wildlife biologist agrees with this also. David Jentoft 01/05/2009 6:43 PM I am ok with cutting the two stands we discussed today. I don't have the sale sheet in front of me, so don't recall the sale or stands, but you can go ahead with cutting them now.)(11/20/09 BB] Sale is now closed, cut summer 2009, TCR date of 10/13/2009. FTP is open to plant acorns and hemlock W41-1321 however, without inmates its unlikely this will happen.(7/2/2015) Regen check shows a mix of B. Sp,WP,Fir,Tam,RM,WB totaling a minimum of 2055 trees per acre.																																																	
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21	4110 - Sugar Maple Association	Sawtimber Well	13.5	93	51-80	N/A	Stand was cut as part of Sale #41-030-17 River Points & Red Pine. TCR Date 8/12/2019.																																																	
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22	42350 - Upland Hemlock	Sawtimber Well	27.7	173	201+	N/A	SCA-DeeryardSoil-65 Deford-Ausable-Tawas Mucks																																																								
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23	4119 - Mixed Northern Hardwoods	Poletimber Well	12.4	92	111-140	N/A	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Remove from POG, does not meet criteria.																																																								
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24	500 - Water	None	23.1			No																																																									
25	6120 - Lowland Cedar	Poletimber Well	32.5	121	51-80	N/A	11/13/24 TB: Stand very sparse in central areas with spruce, fir and cedar regen filling in.. Slight ridges within stand better stocked with nicer quality spruce. Fir and some spruce dying out. Some very large WP and Hem within stand.																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>26</td><td></td></tr><tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Tamarack</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Black Spruce</td><td>30</td><td>Seedling</td><td>5</td><td>88</td></tr><tr><td>Northern White Cedar</td><td>50</td><td></td><td>9</td><td>121</td></tr><tr><td>Hemlock</td><td>5</td><td></td><td>26</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	5		26		Balsam Fir	5	Seedling	5		Tamarack	5	Seedling	6		Black Spruce	30	Seedling	5	88	Northern White Cedar	50		9	121	Hemlock	5		26		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Northern White Cedar</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Tamarack</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Black Spruce	Medium	< 5 feet	< 5 feet	Northern White Cedar	Medium	< 5 feet	< 5 feet	Balsam Fir	Medium	< 5 feet	< 5 feet	Tamarack	Low	< 5 feet	< 5 feet
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26	42220 - Natural Jack Pine	Sapling Well	43.2	26	Immature	N/A	OPIC - FMD: Sale completed summer 1999. Permit# 56-96-01 Stand was partially scarified, 6 acres, September 1999, 37 acres scarified 2000 schedule regen check 2002 Regen results indicated failure. [8/6/2004 BB] Stand was seeded over the snow because of its inaccessability during summer. Regen check in 2007. Soil-25B Proper Fine Sand (1/19/06AP) Regen walkthrough was done by TMS. Stand is fully regenerated. CLOSE FTP-C41-796																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>90</td><td>Log</td><td>3</td><td>26</td></tr><tr><td>Black Spruce</td><td>10</td><td>Log</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	90	Log	3	26	Black Spruce	10	Log	2																																															
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27	42290 - Natural Mixed Pine	Sapling Well	4.2	37	1-50	N/A	OPIC - FMD: Close FTP C41- 807 Soil-20E Rousseau-Neconish-Spot Complex Part of "Little Duck Creek" sale.																																	
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28	6239 - Mixed Emergent Wetland	None	3.9			No	OPIC - FMD: SCA-DeeryardSoil -37 Dawson,Greenwood and Loxley Peats																																	
29	42350 - Upland Hemlock	Sawtimber Well	4.1	151	141-170	N/A	SCA-Deeryard Soil- 490B Pelkie-Moquah-Arnhiem Complex.																																	
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30	42220 - Natural Jack Pine	Sapling Well	172.3	14	Immature	N/A	OPIC - FMD: Include stand 2 compartment 61. Buffer to the bottom of the spoils along Walsh Ditch. Mark red pine to cut with orange paint, leaving 10 sq.ft. of poles (trees measuring 11" or less DBH) in upland areas. A new road is bieng built through the stand as part of several 2005 timbersales for summer access. New road will also be used for the sale of this stand but will be closed when all sales are complete. Try and limit to dry ground harvesting to promote regeneration and prevent the snowmobile trail from bieng used. Add operating caution to sale specs to accomplish this. 4/16/07 BBJ Sale is now on proposal, 11-07 (The Final Stand). Residual Basal Area = .1 sq ft of white pine and 5 sq ft of red pine (5.1 total). Actual prepared acres = 162. (9/15/2010 AP) Upland portions of U3 and U4 were scarified in summer 2010, 42 acres. Unit 1 and unit 2 will have to wait till little walsh duck sale is cut for access. Regen count scheduled for 2014. (11/24/2011 AP) Stand scarified in summer 2011, high ground units only. Unit 1 and 2 were scarified in 2011 and Units 3 and 4 were scarified in 2010. Regen count in 2015 [11/16/2012 TI] Sale is now closed. Final Stand 41-011-07-01. TCR Date 10/29/2012. Stand will be added to the Regen Timeclock and regneration will be monitored. 7/2/2015: Regen check shows an average of 1200 trees per acre of mostly JP and some SP.																																	
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38	622 - Lowland Shrub	None	113.0			No	OPIC - FMD: SCA-Deeryard. Little Duck Creek runs through this stand and into the Manistique river.																																																																																	
39	42340 - Upland Spruce/Fir	Poletimber Well	5.1	80		N/A	OPIC - FMD: SCA-Deeryard Birch is dying, let naturally convert to fir.																																																																																	
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42	42120 - Planted Jack Pine	Sapling Well	3.7	6	Immature	N/A	[2/22/07 BB] Stand is now on proposal, 006-07 Little Duck Sale. Actual Stand acres = 5 and residual volumes are 1.4' of White Pine and 40' of hemlock.(1/6/08 AP) Logger asked for written waiver to cut sale in winter. Snowmobile trail is currently being plowed by another logger. Wildlife biologist agrees with this also. David Jentoft 01/05/2009 6:43 PM I am ok with cutting the two stands we discussed today. I don't have the sale sheet in front of me, so don't recall the sale or stands, but you can go ahead with cutting them now.)(11/20/09 BB) Sale is now closed, cut summer 2009, TCR date of 10/13/2009. FTP is open to plant acorns, W41-1321 however, without inmates its unlikely this will happen.[7/2/2015] Stand failed regen check showing 274 jp/ac and 137 sp/ac.(8/6/2018) Portion of stand was trenched in summer of 2018. will be planted with jack pine next spring.Planted in spring 2020. 945 trees per acre.11/10/2020 AP: Regeneration check in fall 2020 940 jack pine, 20 white pine																																																																																	
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43	6229 - Mixed Lowland Shrub	None	2.8	0		No																																																																																		
44	6239 - Mixed Emergent Wetland	None	11.7			No	Flood area from Walsh ditch.																																																																																	
46	6224 - Treed Bog	None	18.3			No	OPIC - FMD: Soil-37 Dawson,Greenwood and Loxley Peat																																																																																	
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48	500 - Water	None	14.9	0		No	Manistique River and adjoining old river course.																																																																																	
49	6224 - Treed Bog	None	4.9			No	OPIC - FMD: OI Stand Year Origin was																																																																																	
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64	622 - Lowland Shrub	None	6.0			No	OPIC - FMD: Soil-516 Marky Deford Mucks Drained																																																								
66	4110 - Sugar Maple Association	Sawtimber Well	25.4	93	51-80	N/A	Stand was cut as part of Sale #41-030-17 River Points and Red Pine. TCR Date 8/12/2019. SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhim Complex																																																								
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67	6239 - Mixed Emergent Wetland	None	3.4			No	OPIC - FMD: Soil- 37 Dawson,Greenwood and Loxley Peats.																																																								
68	6224 - Treed Bog	None	1.5	0		No	OPIC - FMD: SCA-Deeryard Soil- 20E Rousseau-Neconish-Spot Complex																																																								
69	6239 - Mixed Emergent Wetland	None	2.9			No																																																									
70	500 - Water	None	6.9			No																																																									
71	629 - Mixed non-forested Wetland	None	3.4	0		No																																																									
72	6122 - Black Spruce	Poletimber Well	2.6	88		N/A	OPIC - FMD: Ridge of jack pine in marsh. Soil-525B Neconish-Kinross-Wainola Complex																																																								
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74	42110 - Planted Red Pine	Poletimber Well	5.1	24	111-140	N/A	Acquired from Plum Creek. Fall planted in 2001.																																																								
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75	6122 - Black Spruce	Poletimber Well	19.7	88		N/A	OPIC - FMD: [5/29/07 BB] This stand was originally part of stand 30. However, when stand 30 was prepared for harvest this portion of the stand which is a large finger was excluded for retention purposes. This stand will be managed long term for retention.																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>60</td><td>Seedling</td><td>5</td><td>88</td></tr><tr><td>Jack Pine</td><td>40</td><td>Seedling</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Spruce	60	Seedling	5	88	Jack Pine	40	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Spruce</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	< 5 feet	< 5 feet																																				
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76	4130 - Aspen	Sapling Well	17.2	26	Immature	N/A	OPIC - FMD: CUT WITH LETSON RD SALE 75-96-01. Soil- 516 Marky-deford mucks																																																								
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Stand	Level 4 Cover Type			Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
100	42110 - Planted Red Pine			Poletimber Well	17.7	24	111-140	N/A	Acquired from Plum Creek. Planted Fall of 2001.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Seedling	7	24	Balsam Fir		Low	5 - 10 feet	5 - 10 feet