

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, panicled 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



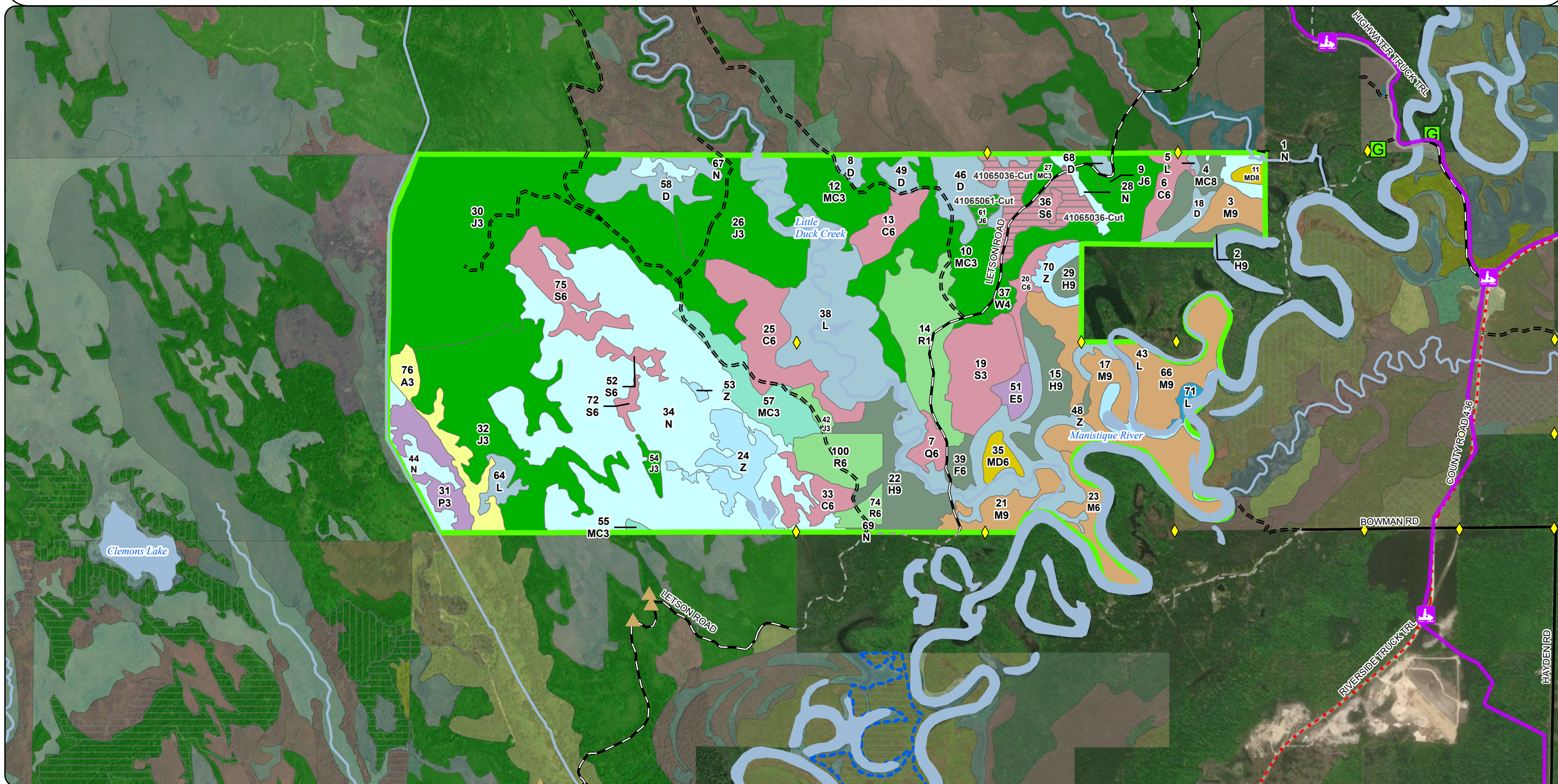
Compartment: 41065
T42N, R14W, Sec: 5
T43N, R14W, Sec: 31-33
T43N, R15W, Sec: 36
County: Schoolcraft
Unit: Shingleton
Mgmt. Area: Seney Lake Plain
YOE: 2027
Acres: 1,310 GIS Calculated
Examiner: Thomas Burnis
Date Exported: 2/5/2026
Map Phase: Post Review

— Federal / State / County - Paved Road

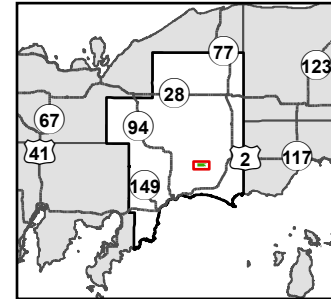
 Clearcut

423 - Other Upland Conifers

 629 - Mixed non-forested Wetland



Stand Boundary Map



Compartiment: 41065
T42N, R14W, Sec: 5
T43N, R14W, Sec: 31-33
T43N, R15W, Sec: 36
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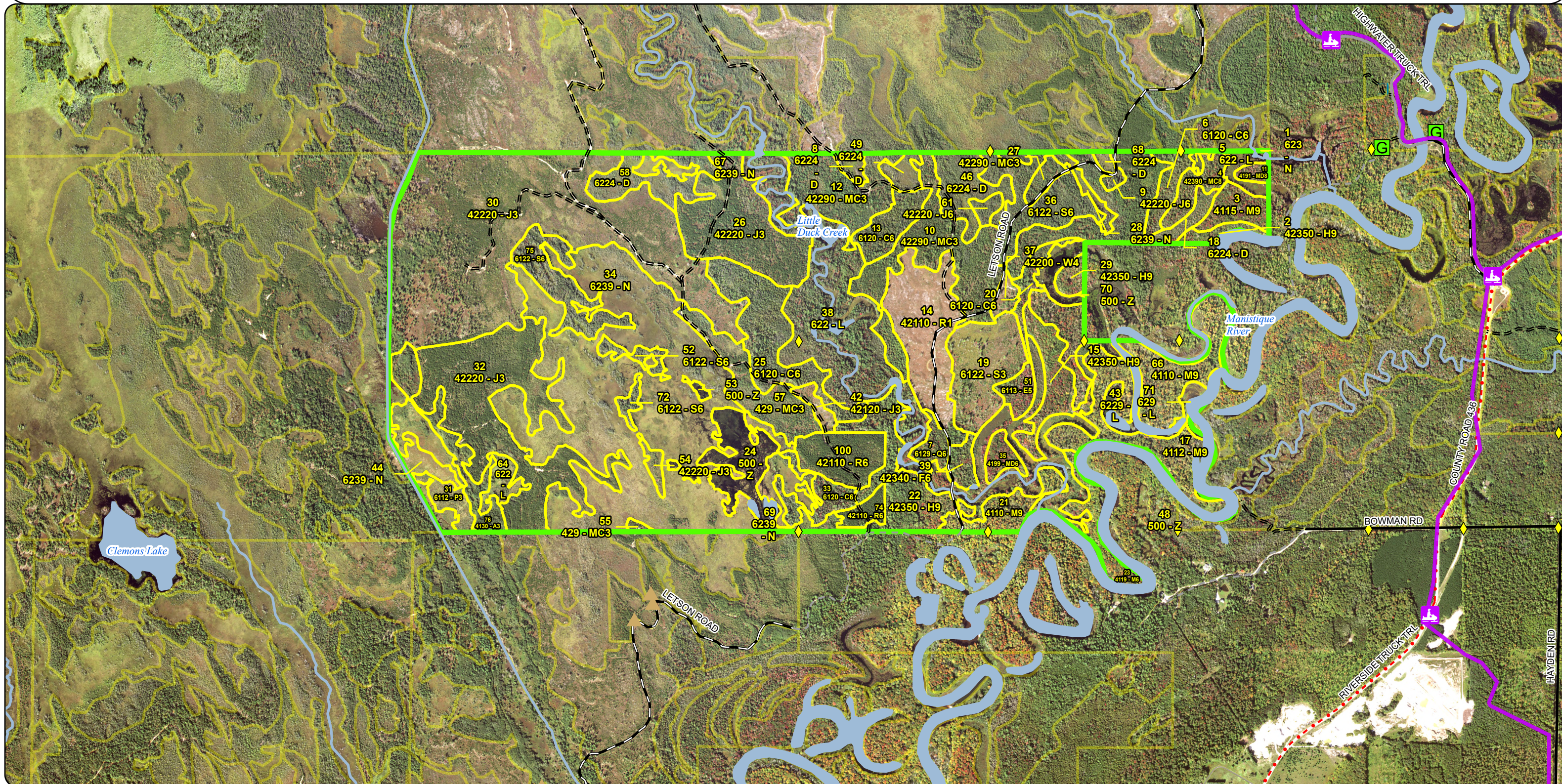
0 0.5 1 Miles

- Survey Grade Corners
- Berm
- Gate
- Culvert
- DNR - Primary Forest Road
- DNR - Forest Access Route

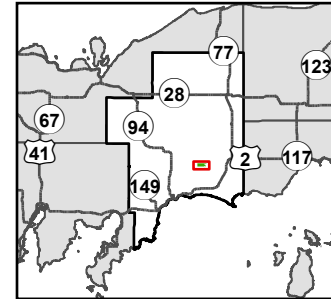
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartiment Boundary

- 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



Special Conservation Areas & Site Conditions Map



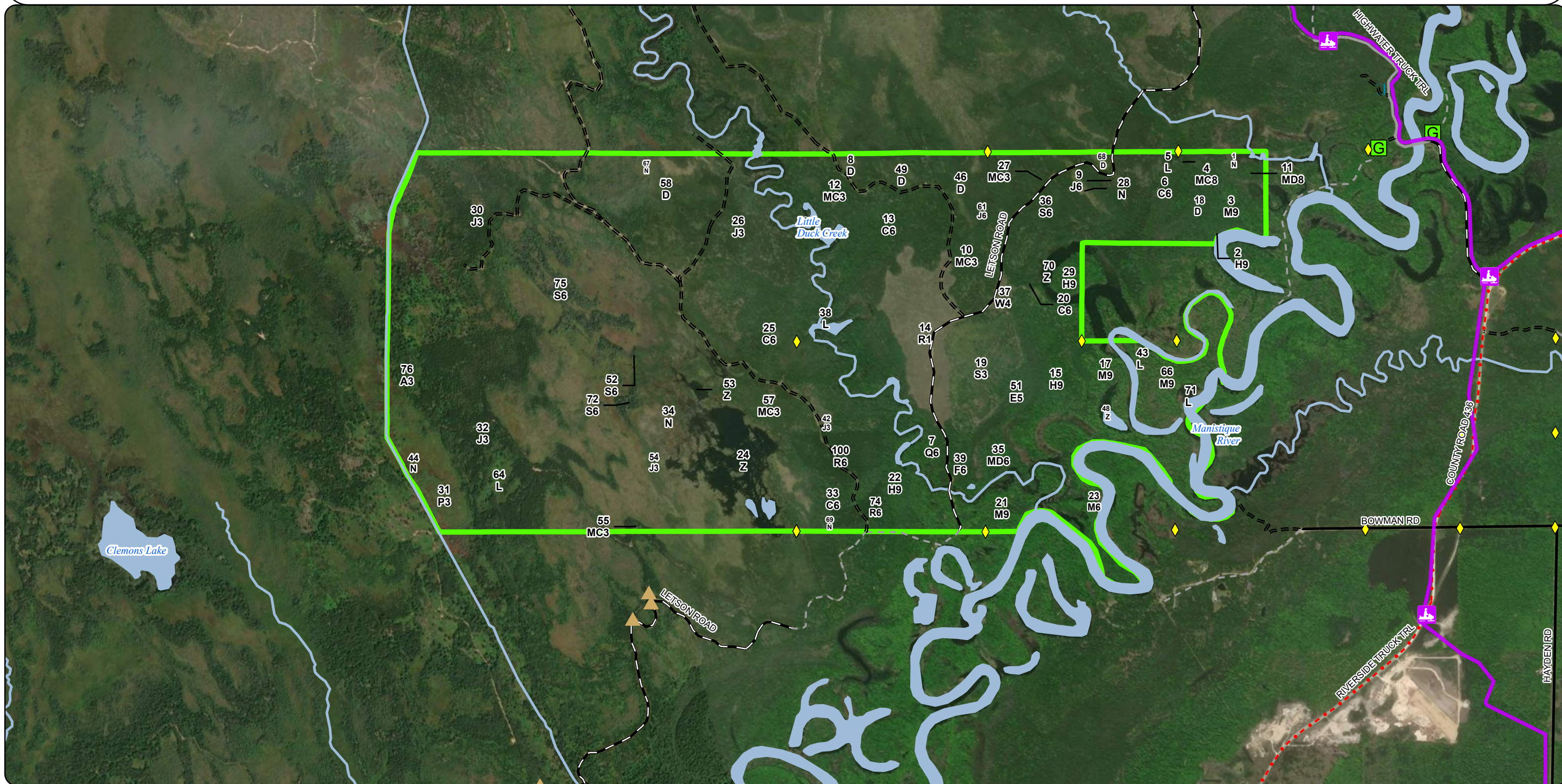
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- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- Deer Winter Range



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

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory 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	0	25	0	0	25
Total	25	0	0	0	0	0	25	0	0	50

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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:

36	41065036-Cut	22.3	6122 - Black Spruce	6	98	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	92	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:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis: Examiner

Compartment: 65
Year of Entry: 2027

Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions					
Acres	Available	With Condition	Not Available		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

Shingleton Mgt. Unit
Thomas Burnis: Examiner

Compartment: 65
Year of Entry: 2027

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
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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	152	141-170		N/A	SCA-Deeryard	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Log	14		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Yellow Birch		5	Log	16					
Northern White Cedar		5	Pole	7					
White Pine		5	XLog	20					
Hemlock		80	Log	12	152				
3	4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.6	93	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	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		70	Log/Pole	12	93	Balsam Fir	High	10 - 20 feet	10 - 20 feet
Yellow Birch		5	Log	14					
Hemlock		25	Log/Pole/XLog	14					Patches of Hemlock. Stand contains seasonal Drainages.
4	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	9.1	83	51-80		N/A	SCA-Deeryard Soil-491D Clemons-Deford Complex Large Cedar , WB dying out , Heavy Fir Understory.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Log	9		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Paper Birch		5	Log/Pole	10					
Balsam Fir		40	Pole	5	83				
Northern White Cedar		35	Log/Pole	12					
Hemlock		15	Log	14					
5	622 - Lowland Shrub	None	0.8				No	SCA-Deeryard Soil-491D Clemons-Deford Complex	
6	6120 - Lowland Cedar	Poletimber Well	8.3	93	141-170		N/A	SCA-Deeryard Soil- 491D Clemons-Deford Complex	
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		5	Pole	5					
Northern White Cedar		90	Pole	5	93				
White Pine		2	Log	16					
Hemlock		3	Log	14					

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	98		N/A																																											
		<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>Pole</td><td>6</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Black Spruce</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>45</td><td>Pole</td><td>6</td><td>98</td></tr><tr><td>White Pine</td><td>5</td><td>XLog/Log</td><td>20</td><td></td></tr><tr><td>Hemlock</td><td>35</td><td>Log</td><td>16</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	6		Paper Birch	5	Pole	6		Black Spruce	5	Pole	6		Northern White Cedar	45	Pole	6	98	White Pine	5	XLog/Log	20		Hemlock	35	Log	16				<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 feet</td><td>< 5 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	< 5 feet	< 5 feet	
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Sub-Canopy Species	Density	Avg. Height	Size																																														
Balsam Fir	Medium	< 5 feet	< 5 feet																																														
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	89	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.																																										
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10	42290 - Natural Mixed Pine	Sapling Well	73.4	37	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	94	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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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
13	6120 - Lowland Cedar	Poletimber Well	11.9	92			N/A	OPIC - FMD: Soil- 37 Dawson, Greenwood and																																										
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14	42110 - Planted Red Pine	Sapling Poor	39.2	5	1-50		N/A	<p>Harvested in January 2019, River Points red pine. Trenched in fall 2020. Stand was cut as part of Sale #41-030-17 River Points & Red Pine. TCR Date 8/12/2019. Spraying was done, on the north 1/2 of stand, by Wildlife and Wetlands Solutions, Inc. (operator was Jim Wilson). Weather (on site) - started at 09:30AM - 67 degrees, Winds 0-3 MPH from N/NE, RH 52%. Vegetation dry, no dew remaining from previous night. Started spraying at 09:30am. Completed spraying at 5:30pm. At completion weather was 72 degrees, RH 52%, winds 2-5MPH from N/NE. No rain in previous 4 days, or for 5 days following the treatment.Prescription was for Element 4 @ 2.0 qt./acre and Rodeo @ 3.0 qt./acre. Surfactant of Nufilm at a rate of 6.4 oz/acre. W&WS reported spraying 3.14 qt/ac of rodeo, 2.09 qt/ac Element and 6.7 oz/ac of Nufilm.Total herbicide cost (per PAP) = \$4419.28. Per acre = \$196.41/acre. This doesn't include any DNR labor/wages. Specific costs of herbicides and contract can be found on the PAP.Site Prep spray done by Wildlife and Wetlands Solutions.2022 PUER: Overall, Very good results overall Aspen, maple and cherry are dead. Grasses and Bracken fern killed. Spray was effective. Site checked again in spring of 2022 - confirmed efficacy of treatment. Bracken has reflushed.1sy year regen check has shown 744 trees per acre3rd year regeneration check completed and results are attached as a file.The South 13 acres did not receive spray due to wildlife funding. Results are as follows:</p> <p>1 year regeneration check showed 778 trees per acre3rd year regeneration check completed and results are attached as a file.</p>																																										
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15	42350 - Upland Hemlock	Sawtimber Well	16.5	133	111-140		N/A	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard Soil- 490B Pelki-Moqueh-Arnhiem Complex																																										
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17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	43.6	93	51-80	N/A	Stand was cut as part of Sale #41-030-17-01 River Points & Red Pine. TCR Date 8/12/2019																																																			
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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	17	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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20	6120 - Lowland Cedar	Poletimber Well	6.3	93	141-170	N/A	SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex																																																			
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21	4110 - Sugar Maple Association	Sawtimber Well	13.5	94	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	42350 - Upland Hemlock	Sawtimber Well	27.7	174	201+	N/A	SCA-DeeryardSoil-65 Deford-Ausable-Tawas Mucks		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Log/Pole	10		Balsam Fir	Medium		< 5 feet	< 5 feet
Paper Birch	3	Pole	8		Hemlock	Medium		< 5 feet	< 5 feet
Northern White Cedar	2	Pole	8						
White Pine	10	XLog	20						
Hemlock	80	XLog/Log	22	174					
23	4119 - Mixed Northern Hardwoods	Poletimber Well	12.4	93	111-140	N/A	OPIC - FMD: SCA-POG-Stand was proposed as potential old growth as the Manistique River corridor in 1997. SCA-Deeryard		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Sugar Maple	65	Pole/Log	9	93	Balsam Fir	Medium	>20 feet	>20 feet	
Red Maple	10	Pole/Log	9						
Yellow Birch	10	Log	14						
White Oak	5	Log	14						
Northern White Cedar	2	Pole	8						
Hemlock	3	Pole	9						
Black Ash	5	Pole	8					Remove from POG, does not meet criteria.	
24	500 - Water	None	23.1			No			
25	6120 - Lowland Cedar	Poletimber Well	32.5	122	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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir	5	Pole	5		Black Spruce	Medium	< 5 feet	< 5 feet	
Black Spruce	30	Pole	5	89	Northern White Cedar	Medium	< 5 feet	< 5 feet	
Northern White Cedar	50	Pole/Log	9	122	Balsam Fir	Medium	< 5 feet	< 5 feet	
Tamarack	5	Pole	6		Tamarack	Low	< 5 feet	< 5 feet	
White Pine	5	XLog	26		Tag Alder	Low	5 - 10 feet	5 - 10 feet	
Hemlock	5	XLog	26						
26	42220 - Natural Jack Pine	Sapling Well	43.2	27	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		
Canopy Species	% Cover	Size Class	DBH	Age					
Black Spruce	10	Sapling	2						
Jack Pine	90	Sapling	3	27					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
27	42290 - Natural Mixed Pine	Sapling Well	4.2	38	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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Jack Pine	50	Sapling	2	38																																				
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	152	141-170	N/A	SCA-Deeryard Soil- 490B Pelkie-Moquah-Arnhiem Complex.																																	
<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>10</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Hemlock</td><td>80</td><td>XLog</td><td>18</td><td>152</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	6		Paper Birch	5	Pole	6		Northern White Cedar	5	Pole	6		Hemlock	80	XLog	18	152	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	< 5 feet
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30	42220 - Natural Jack Pine	Sapling Well	172.3	15	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 BB] 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 regenration 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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
31	6112 - Lowland Aspen	Sapling Well	15.8	27	Immature	N/A	OPIC - FMD: CUT WITH LETSON RD SALE 75-96-01. Soil- 516 Marky-deford mucks																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>90</td><td>Sapling</td><td>3</td><td>27</td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Sapling	3	27	Pin Cherry	10	Sapling	3																																					
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32	42220 - Natural Jack Pine	Sapling Well	76.5	27	Immature	N/A	OPIC - FMD: CUT WITH LETSON RD. SALE 75-96-01. Soil-20E Rousseau-Neconish-Spot Complex (6/5/06AP) Regen check completed in spring of 2004 showing JP- 372, RM- 3, Aspen- 184, Spruce- 168, Wp- 32 for a total of 759 tpa. Stand was reinventoried as J3. CLOSE FTP C41-773.																																																			
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33	6120 - Lowland Cedar	Poletimber Well	11.0	122		N/A	SCA-Deeryard Soil-65 Deford-Ausable-Tawas Mucks																																																			
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34	6239 - Mixed Emergent Wetland	None	190.7			No	OPIC - FMD: Soil-66 Markey mucky peat.																																																			
35	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.2	71	111-140	N/A	SCA-Deeryard Soil-490B Pelkie-Moquah-Arnhiem Complex																																																			
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36	6122 - Black Spruce	Poletimber Well	23.8	98	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1928																																																			
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37	42200 - Natural White Pine	Poletimber Poor	3.4	37	1-50	N/A	OPIC - FMD: SCA-Deeryard Other species cut out in 1989. Stand was cut as part of Sale #41-030-17-01 River Points & Red Pine. TCR Date 8/12/2019 (overstory removal, leaving a few seed trees)																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
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	81		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	7	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
51	6113 - Lowland Maple	Poletimber Medium	5.7	83	1-50	N/A	SCA-Deeryard		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	70	Pole	7	83	Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	30	Pole	6						
52	6122 - Black Spruce	Poletimber Well	4.3	98		N/A	OPIC - FMD: OI Stand Year Origin was 1928		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black Spruce	60	Pole	5	98	Black Spruce	Medium	< 5 feet	< 5 feet	
Jack Pine	40	Pole	6						
53	500 - Water	None	1.0			No	OPIC - FMD: OI Stand Year Origin was		
54	42220 - Natural Jack Pine	Sapling Well	2.9	27	Immature	N/A	OPIC - FMD: Ridge of jack pine in marsh. Soil-525B Neconish-Kinross-Wainola ComplexCut with "Letson Road Sale" #75-96		
Canopy Species	% Cover	Size Class	DBH	Age					
Black Spruce	40	Sapling	2						
Jack Pine	60	Sapling	3	27					
55	429 - Mixed Upland Conifers	Sapling Well	1.0	27	Immature	N/A	Stand is managed with stand 13 comp 70.		
Canopy Species	% Cover	Size Class	DBH	Age			OPIC - FMD: CUT WITH LETSON RD. SALE 75-96-01. Regen check shows adequette regeneration. Soil-20E Rousseau-Neconish-Spot Complex		
Quaking Aspen	10	Sapling	3						
Black Spruce	40	Sapling	2						
Jack Pine	50	Sapling	3	27			(6/5/06AP) Regen check completed in spring of 2004 showing JP-372, RM- 3, Aspen- 184, Spruce- 168, Wp- 32 for a total of 759 tpa. Stand was reinventoried as J3. CLOSE FTP C41-773.		
57	429 - Mixed Upland Conifers	Sapling Well	22.7	27	Immature	N/A	OPIC - FMD: sale completed summer 1999. Permit # 56-96-01. Scarified but road never closed. North end of stand is J3 but heavier to black spruce with white and jack pine in southern portion. Regen check shows adequette regen. Soil- 20E Rousseau-Neconish-Spot Complex (1/19/06AP)Stand is fully regenerated. CLOSE FTP-C41-796		
Canopy Species	% Cover	Size Class	DBH	Age					
Bigtooth Aspen	5	Sapling	3						
Balsam Fir	5	Sapling	3						
Black Spruce	40	Sapling	2						
Jack Pine	50	Sapling	3	27					
58	6224 - Treed Bog	None	17.5			No	OPIC - FMD: Soil- 37 Dawson,Greenwood and Loxley Peats.		
					Sub-Canopy Species	Density	Avg. Height	Size	
					Tamarack	Low	10 - 20 feet	10 - 20 feet	
					Black Spruce	High	10 - 20 feet	10 - 20 feet	
61	42220 - Natural Jack Pine	Poletimber Well	2.8	92	Unspecified	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black Spruce	40	Pole	5	92	Black Spruce	Medium	5 - 10 feet	5 - 10 feet	
Jack Pine	60	Pole	6	92					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
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	94	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-Arnhiem Complex			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	80	Log/Pole	13	94	White Ash		Low	< 5 feet	< 5 feet
	Red Maple	3	Pole/Log	9		Red Maple		Low	< 5 feet	< 5 feet
	Basswood	5	Log/Pole	13		Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet
	White Oak	5	Log	14		White Oak		Low	< 5 feet	< 5 feet
	Northern White Cedar	4	Pole	9		Balsam Fir		Low	10 - 20 feet	10 - 20 feet
	Ironwood	3	Pole	5						
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	89		N/A	OPIC - FMD: Ridge of jack pine in marsh. Soil-525B Neconish-Kinross-Wainola Complex			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	60	Pole	5	89	Black Spruce		Medium	< 5 feet	< 5 feet
	Jack Pine	40	Pole	6						
74	42110 - Planted Red Pine	Poletimber Well	5.1	25	111-140	N/A	Acquired from Plum Creek. Fall planted in 2001.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Pine	100	Pole	7	25	Balsam Fir	Low	5 - 10 feet	5 - 10 feet	
75	6122 - Black Spruce	Poletimber Well	19.7	89		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.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	60	Pole	5	89	Black Spruce		Medium	< 5 feet	< 5 feet
	Jack Pine	40	Pole	6						
76	4130 - Aspen	Sapling Well	17.2	27	Immature	N/A	OPIC - FMD: CUT WITH LETSON RD SALE 75-96-01. Soil- 516 Marky-deford mucks			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	90	Sapling	3	27					
	Pin Cherry	10	Sapling	3						

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	25	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	Pole	7	25	Balsam Fir		Low	5 - 10 feet	5 - 10 feet