

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, paniced 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:

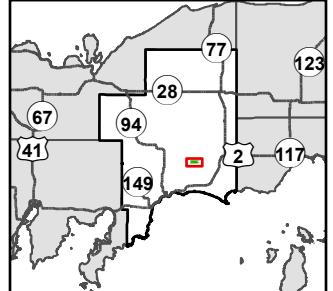
Base feature information, stand boundaries, cover types, and numbers

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: 2/5/2026
 Map Phase: Post Review

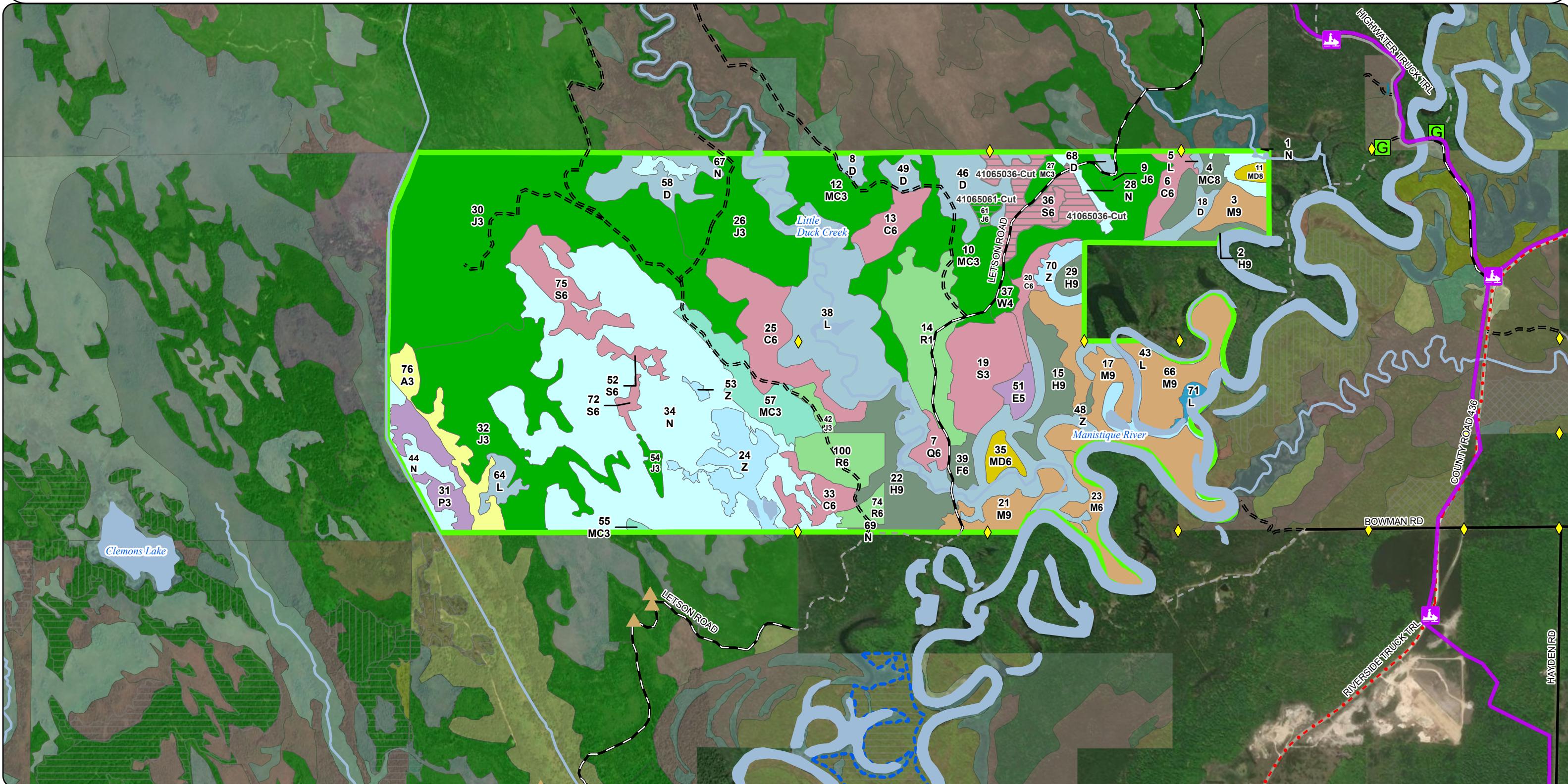
0 0.5 1 Miles

◊ Survey Grade Corners
 ▲ Berm
 □ Gate
 ⚡ Culvert
 — DNR - Primary Forest Road
 - - - DNR - Forest Access Route
 — Federal / State / County - Paved Road

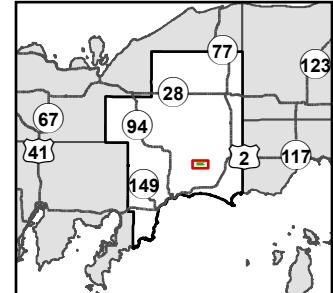
- - - County - Gravel Road
 — Private - Paved Road
 - - - Private - Dirt / Gravel Road
 — Streams
 — Lakes and Rivers
 — Compartment Boundary
 — Clearcut

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



Compartment: 41065
 T42N, R14W, Sec: 5
 T43N, R14W, Sec: 31-33
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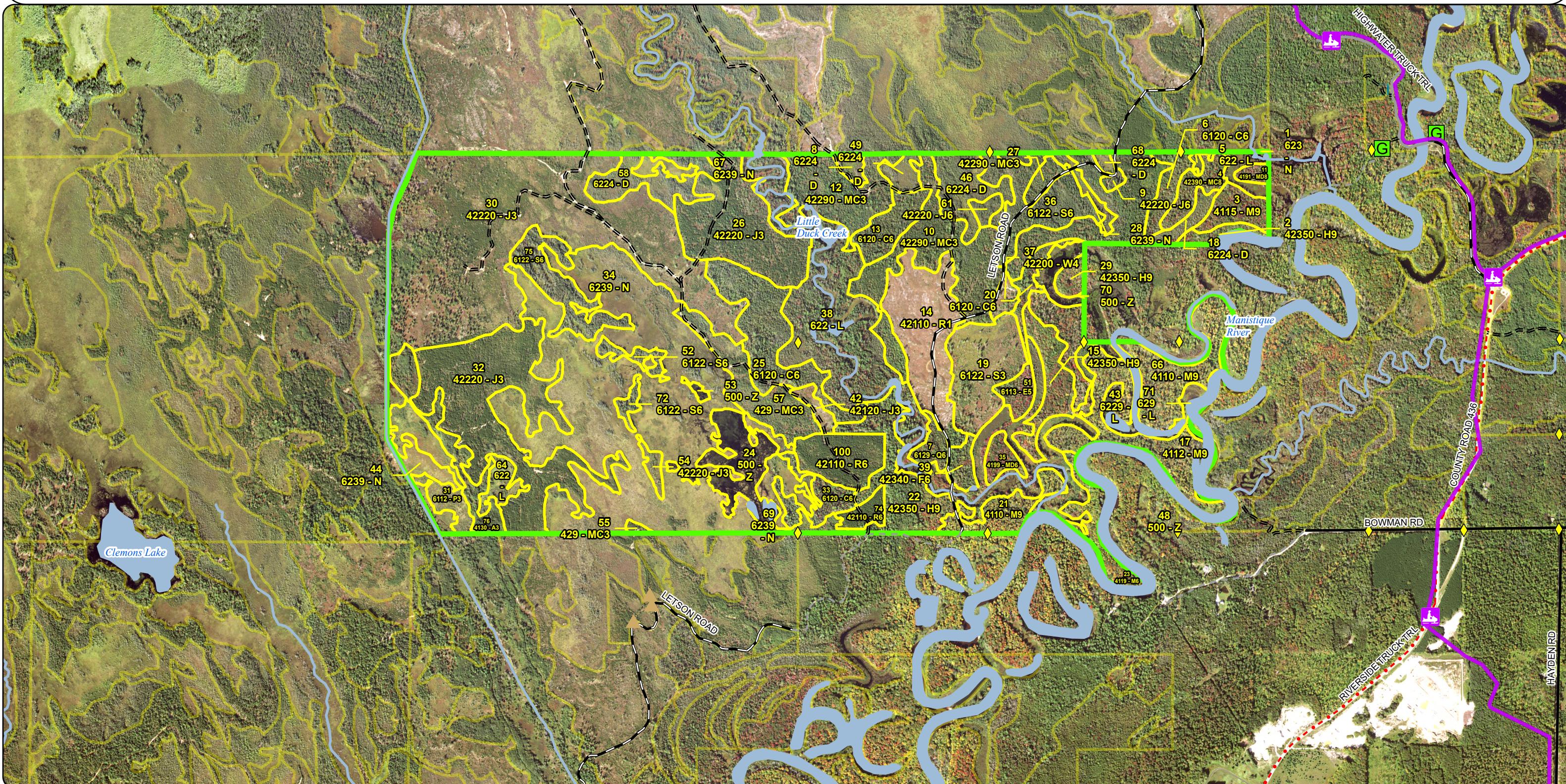
Miles

- ◆ Survey Grade Corners
- ▲ Berm
- Gate
- ~ Culvert
- DNR - Primary Forest Road
- == DNR - Forest Access Route

- Federal / State / County - Paved Road
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- Streams
- Lakes and Rivers
- Compartment Boundary

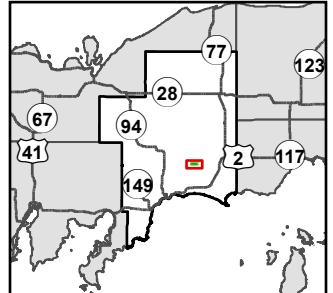
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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Special Conservation Areas & Site Conditions Map

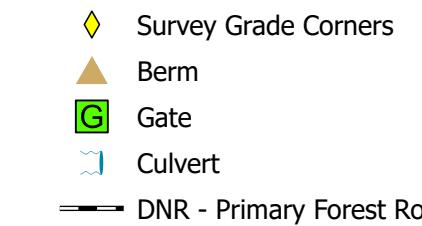
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Map

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==== DNR - Forest Access Route

— Federal / State / County - Paved Road

— • — • County - Gravel Road

— Private - Paved Road

— — — Private - Dirt / Gravel Road

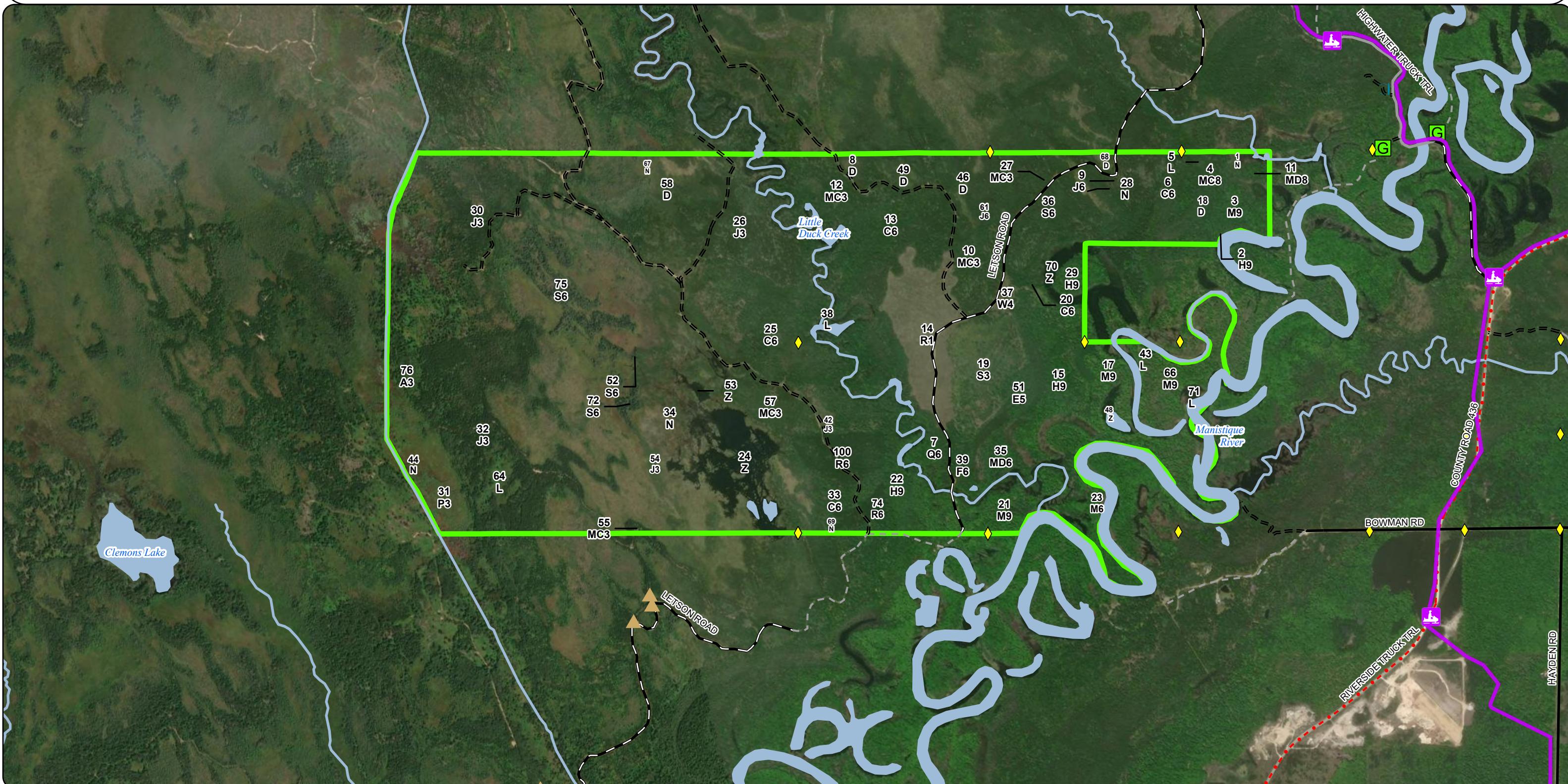
Streams

Lakes and Rivers

Compartment Boundaries

Stand Boundaries

Deer Winter Range



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+	UnrelnAged	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	27	0	0	44	0	0	0	0	0	70
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	36	0	0	52
Jack Pine	0	4	172	123	0	0	0	0	1	3	0	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	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	0	0	0	0	0	0	0	0	6	0	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	22	28	0	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	2	0	0	0	0	0	0	0	0	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	0	105
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	5	0	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	43	65	0	0	44	17	0	36	110	1309	

Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Compartment 65
Total Compartment Acres: 1,310

Acres of Harvest

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	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

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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
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Prescription Cut all species except Red pine, White pine and Hemlock. Retention as indicated.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable any existing species
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

61	41065061-Cut	2.8	42220 - Natural Jack Pine	6	92	Unspecified	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Cut all trees. Retention not necessary due to small size.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any of existing species
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 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
	88%		12%	Relative Percent				31

*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	Dominant Site	No.	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	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:							

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	152	141-170	N/A	SCA-Deerryard		
	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.		
	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					
4	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	9.1	83	51-80	N/A	SCA-Deerryard 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-Deerryard Soil-491D Clemons-Deford Complex		
6	6120 - Lowland Cedar	Poletimber Well	8.3	93	141-170	N/A	SCA-Deerryard 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			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	5	Pole	6		Balsam Fir	Medium	< 5 feet	< 5 feet
	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					
8	6224 - Treed Bog	None	3.1			No	OPIC - FMD: OI Stand Year Origin was		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	Medium	10 - 20 feet	10 - 20 feet					
9	42220 - Natural Jack Pine	Poletimber Well	1.4	89	51-80	N/A	OPIC - FMD: SCA-Deeryard Soil- 20E Rousseau-Neconish-Spot Complex.		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Black Spruce	20	Pole	5					
	Jack Pine	80	Pole	7	89				
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		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Black Spruce	40	Sapling	2					
	White Pine	5	XLog	22					
	Red Pine	5	XLog	22					
	Jack Pine	50	Sapling	3	37				
11	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	2.4	94	81-110	N/A	Part of "Little Duck Creek" sale 1987.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	55	Log/Pole	11	94	Balsam Fir	High	>20 feet	>20 feet
	Paper Birch	5	Log/Pole	11					
	Balsam Fir	35	Pole	6	39				
	Hemlock	5	Log	14					
12	42290 - Natural Mixed Pine	Sapling Well	28.1	37	1-50	N/A	OPIC - FMD: Close FTP C41-807 Soil-20E Rousseau-Neconish-Spot Complex 12/10/24 TB: Part of "Little Duck Creek" sale #02-87		
	Canopy Species	% Cover	Size Class	DBH	Age				
	Black Spruce	40	Sapling	2					
	White Pine	5	XLog	20					
	Red Pine	5	XLog	20					
	Jack Pine	50	Sapling	4	37				

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	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	10	Pole	5				Black Spruce	Medium	5 - 10 feet	5 - 10 feet
	Northern White Cedar	80	Pole/Log	9	92			Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	Tamarack	3	Pole	5							
	White Pine	5	Log/XLog	16							
	Hemlock	2	Log/XLog	16							
14	42110 - Planted Red Pine		Sapling Poor		39.2	5	1-50	N/A		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 flushed. 1sy year regen check has shown 744 trees per acre 3rd 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: 1 year regeneration check showed 778 trees per acre 3rd year regeneration check completed and results are attached as a file.	
	Canopy Species	% Cover	Size Class	DBH Age							
	Red Pine	100	Sapling	1	5						
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-Arnhem Complex Remove from POG, does not meet criteria.	
	Canopy Species	% Cover	Size Class	DBH Age				Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	5	Log	14				Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
	Yellow Birch	5	Log	16							
	Northern White Cedar	5	Pole	7							
	White Pine	5	XLog	20							
	Hemlock	80	Log	14	133						

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	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		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	70	Log/Pole	11	93	Red Maple	Medium	10 - 20 feet	10 - 20 feet
	Red Maple	20	Pole	8		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
	Basswood	3	Pole	8		Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet
	Paper Birch	2	Pole	6					
	Northern White Cedar	2	Pole	8					
	Hemlock	3	Log/Pole	10					
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 occur 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.		
20	6120 - Lowland Cedar	Poletimber Well	6.3	93	141-170	N/A	SCA-Deeryard Soil-490B Pelkie-Moquah-Arnheim Complex		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Spruce	10	Pole	5		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
	Northern White Cedar	85	Pole	5	93				
	Hemlock	5	Log	14					
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.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	85	Log/Pole	13	94	Sugar Maple	Low	5 - 10 feet	5 - 10 feet
	Red Maple	5	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
	Yellow Birch	2	Pole/Log	9		Bur Oak	Medium	< 5 feet	< 5 feet
	Basswood	3	Log	12		Hazelnut (Spp.)	High	5 - 10 feet	5 - 10 feet
	White Oak	5	Log	14					

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							
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
	Canopy Species	% Cover	Size Class	DBH				Soil-20E Rousseau-Neconish-Spot Complex Part of "Little Duck Creek" sale.
	Black Spruce	40	Sapling	1				
	White Pine	5	XLog	20				
	Red Pine	5	XLog	20				
	Jack Pine	50	Sapling	2	38			
28	6239 - Mixed Emergent Wetland		None	3.9			No	OPIC - FMD: SCA-Deeryard Soil -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-Arnheim Complex.
	Canopy Species	% Cover	Size Class	DBH				
	Red Maple	10	Pole	6				
	Paper Birch	5	Pole	6				
	Northern White Cedar	5	Pole	6				
	Hemlock	80	XLog	18	152			
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 being built through the stand as part of several 2005 timber sales 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 being used. Add operating caution to sale specs to accomplish this.
	Canopy Species	% Cover	Size Class	DBH				
	Black Spruce	15	Sapling	2				
	White Pine	5	Sapling	2				
	Jack Pine	80	Sapling	2	15			
								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 regeneration will be monitored.
								7/2/2015: Regen check shows an average of 1200 trees per acre of mostly JP and some SP.

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
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	90	Sapling	3	27					
	Pin Cherry	10	Sapling	3						
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.
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	15	Sapling	3						
	Black Spruce	25	Sapling	2						
	Jack Pine	60	Sapling	3	27					
33	6120 - Lowland Cedar			Poletimber Well		11.0	122		N/A	SCA-Deeryard Soil-65 Deford-Ausable-Tawas Mucks
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species				
	Red Maple	3	Pole	6		Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Fir	2	Pole	6		Black Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	40	Pole	6		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet	
	Northern White Cedar	50	Pole	8	122					
	White Pine	2	Log	17						
	Hemlock	3	Pole	9						
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-Arnheim Complex
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species				
	Red Maple	50	Pole	6	71	Balsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Paper Birch	40	Pole	6						
	Balsam Fir	10	Pole	5						
36	6122 - Black Spruce			Poletimber Well		23.8	98	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1928
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species				
	Black Spruce	60	Pole	6	98	Black Spruce	Medium	5 - 10 feet	5 - 10 feet	
	White Pine	3	Log	16						
	Red Pine	2	Log/XLog	16						
	Jack Pine	35	Pole	6						
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)
	Canopy Species	% Cover	Size Class	DBH	Age					
	Balsam Fir	20	Pole/Sapling	5						
	Black Spruce	15	Sapling/Pole	3						
	White Pine	65	Pole/Sapling	5	37					

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	<p>[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.)</p> <p>[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.</p> <p>[7/2/2015] Stand failed regen check showing 274 jp/ac and 137 sp/ac.</p> <p>(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.</p> <p>11/10/2020 AP: Regeneration check in fall 2020 940 jack pine, 20 white pine</p>																																																								
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								
	Quaking Aspen	10	Sapling	3								OPIC - FMD: CUT WITH LETSON RD. SALE 75-96-01. Regen check shows adequate regeneration. Soil-20E Rousseau-Neconish-Spot Complex
	Black Spruce	40	Sapling	2								
	Jack Pine	50	Sapling	3 27								
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 adequate regen. Soil- 20E Rousseau-Neconish-Spot Complex
	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-Arnheim 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