

# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41166

Entry Year: 2027

Acreage: 2,353

County: Schoolcraft

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Charles Osborn

## **Legal Description:**

T47N R16W Sections 4, 9, 11, 14, 15

## **Identified Planning Goals:**

Recreation is important as this compartment contains five State Forest Campgrounds, and the snowmobile trail goes through the northwest corner. Also emphasized is timber production through selection cutting in hardwood stands, and wildlife habitat management.

## **Soil and topography:**

The upland soils consist of Garlic & Paquin Sands, and the lowland soils include Dawson and Carbondale Peats & Mucks. Topography is flat to slightly rolling.

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

Several of the lakes in the compartment have vacation and year round residences. The majority of the land to the north and east is commercial forest land managed for northern hardwoods.

## **Unique Natural Features:**

Currently under review by Michigan Natural Features Inventory (MNFI)

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

None identified at this time.

## **Special Management Designations or Considerations:**

None identified at this time.

## **Watershed and Fisheries Considerations:**

This compartment contains the Ross Lake, Cusino Lake, the Gemini Lakes complex, Canoe Lake, and an unnamed stream that serves as a tributary to Worchester (Wolf) Lake. A minimum 100-ft, plus 5 feet per 1% increase in slope, riparian management zone is recommended for these waterbodies to protect riparian areas in accordance with Best Management Practices.

## **Wildlife Habitat Considerations:**

This compartment lies in northern Schoolcraft County and contains Canoe Lake and portions of Ross and Gemini Lakes. Early surveyor notes show that the uplands were dominated by a mixed forest containing sugar maple, hemlock, yellow birch, beech, white pine, balsam fir, and red maple. Lowland forest consisted of tamarack, spruce, and cedar. Current upland forest appear to have more black cherry and less hemlock, yellow birch, and white pine than the circa 1850 forests. Low lying conifer stands appear to be fairly similar in species composition to the pre-settlement forests. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. Wildlife habitat objectives in this compartment include promoting species diversity in the northern hardwood stands by enhancing the black cherry, yellow birch, hemlock and white pine components, maintaining closed canopy hemlock stands, and protecting the ecological integrity of the wetlands systems.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) and the Cambrian Trempealeau Formations subcrop below the glacial drift. The PdC and Trempealeau could be used for stone. The nearest gravel pit is two miles to the northwest and there should be potential in the compartment. There is no commercial oil and gas production in the UP.

## **Vehicle Access:**

Vehicle access is good; there are county roads and dirt two-track roads throughout.

## **Survey Needs:**

None identified at this time.

**Recreational Facilities and Opportunities:**

This compartment contains the following State Forest Campgrounds: North & South Gemini Lakes, Canoe Lake, Cusino Lake, and Ross Lake. There is also a short hiking trail at South Gemini Campground.

**Fire Protection:**

There is a low occurrence of fires in this area mainly due to hardwood timber types.

**Additional Compartment Information:**

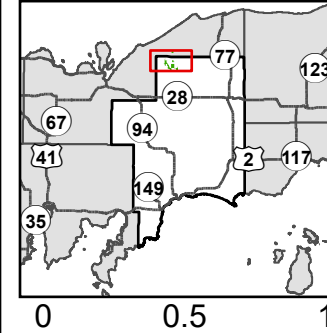
The following reports from the Inventory are attached:

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

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

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

**Cover Type & Treatments Map**



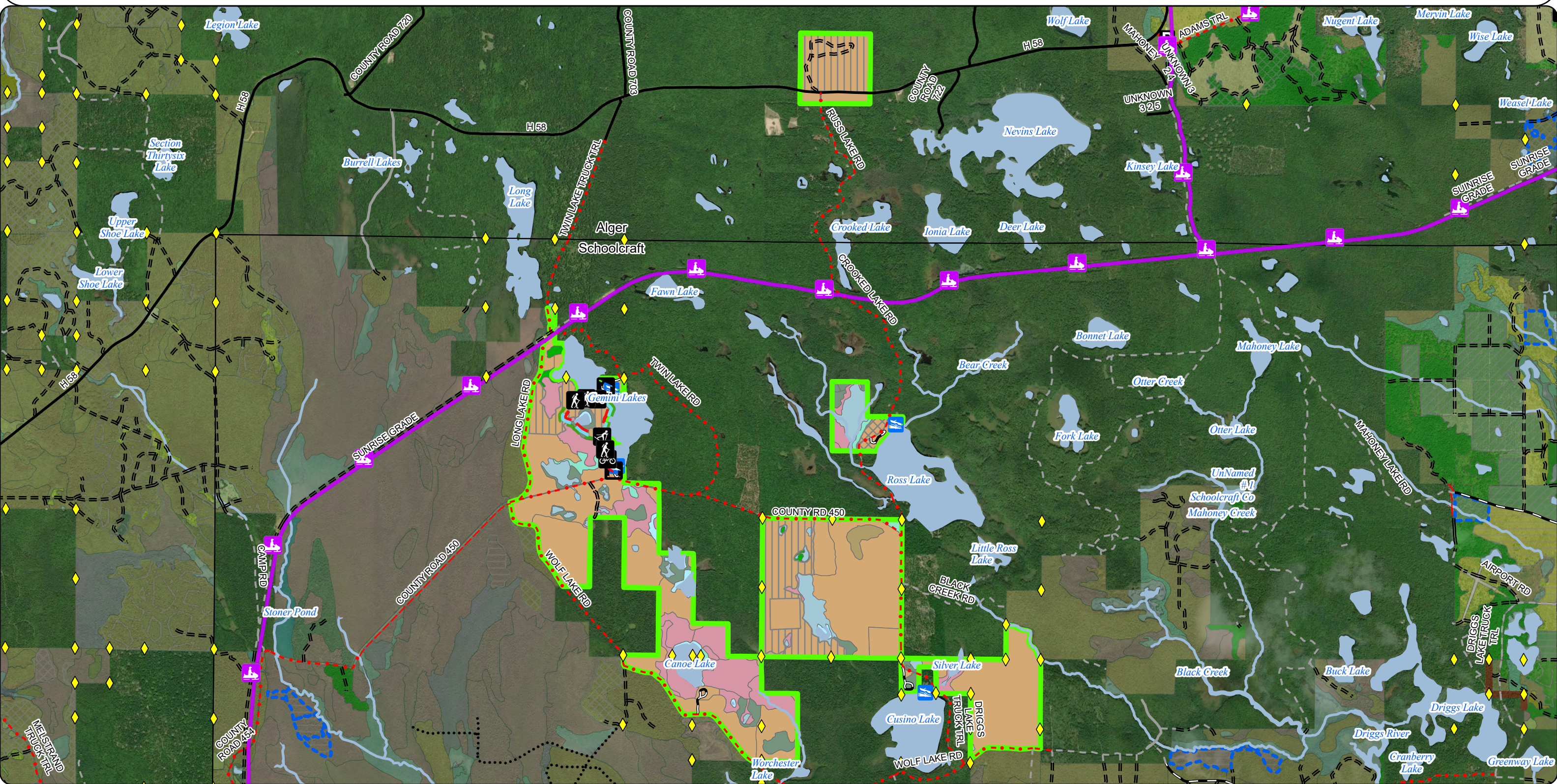
Compartment: 41166  
 T47N, R16W, Sec: 4, 9-16, 22-24  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 2,353 GIS Calculated  
 Examiner: Charles Osborn  
 Date Exported: 2/5/2026  
 Map Phase: Post Review

- Survey Grade Corners
- Toilet
- Parking Lot
- Boating Access Site
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route

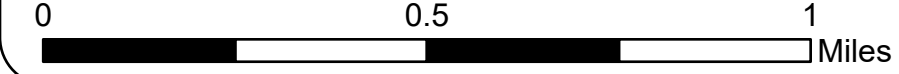
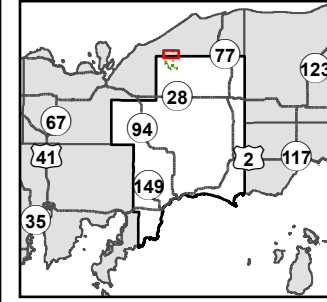
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Streams

- Lakes and Rivers
- Compartment Boundary
- Selection
- Shelterwood
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 422 - Natural Pines

- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub

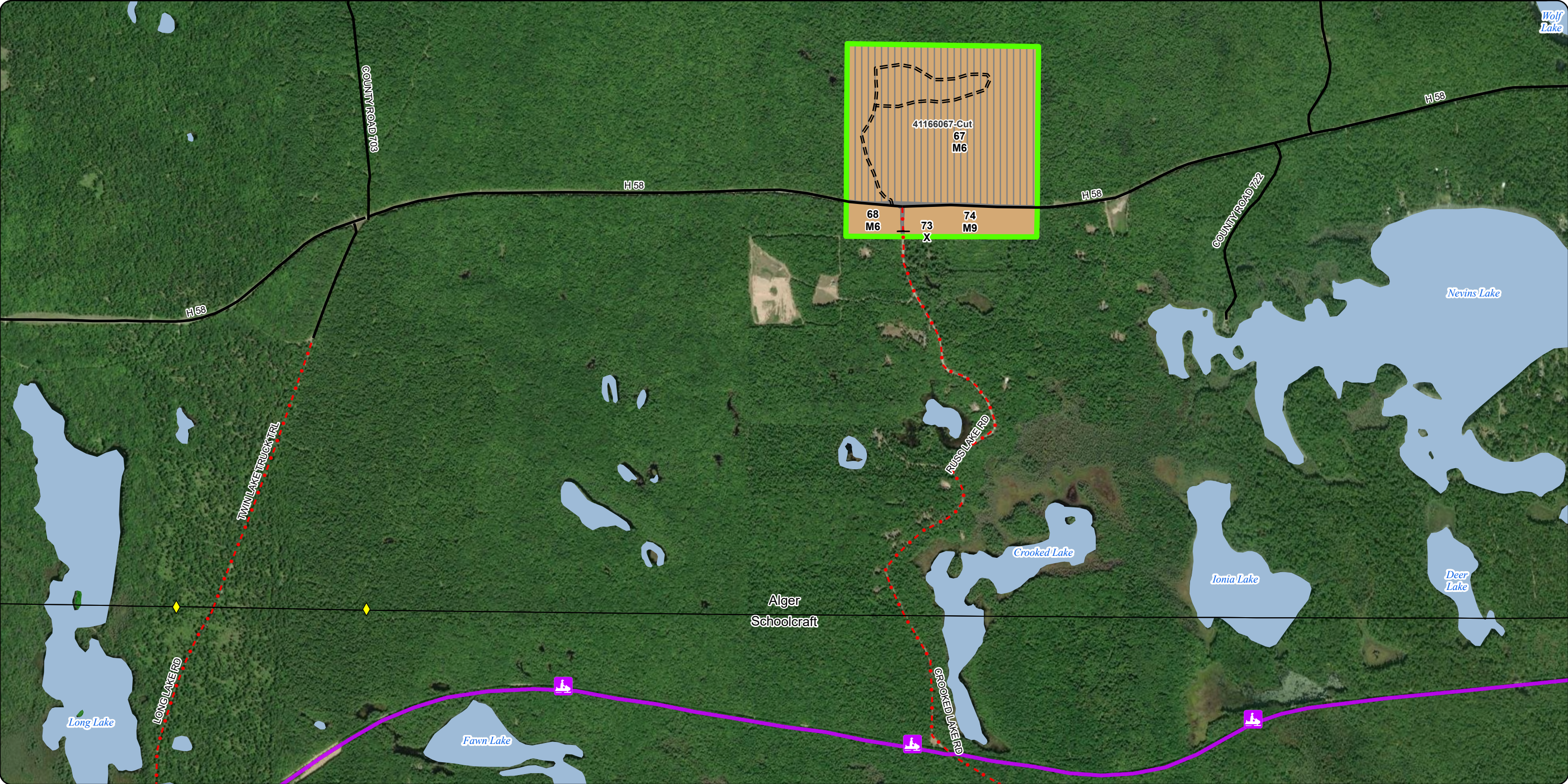


**Cover Type & Treatments Map**

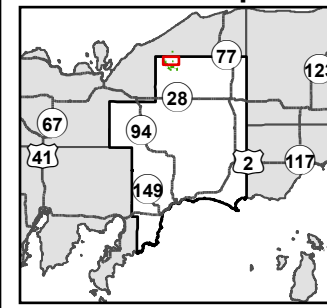


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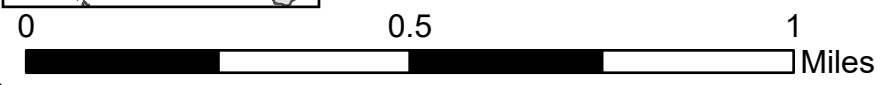
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**Cover Type & Treatments Map**



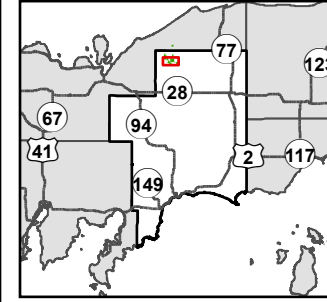
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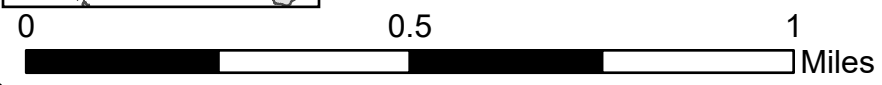
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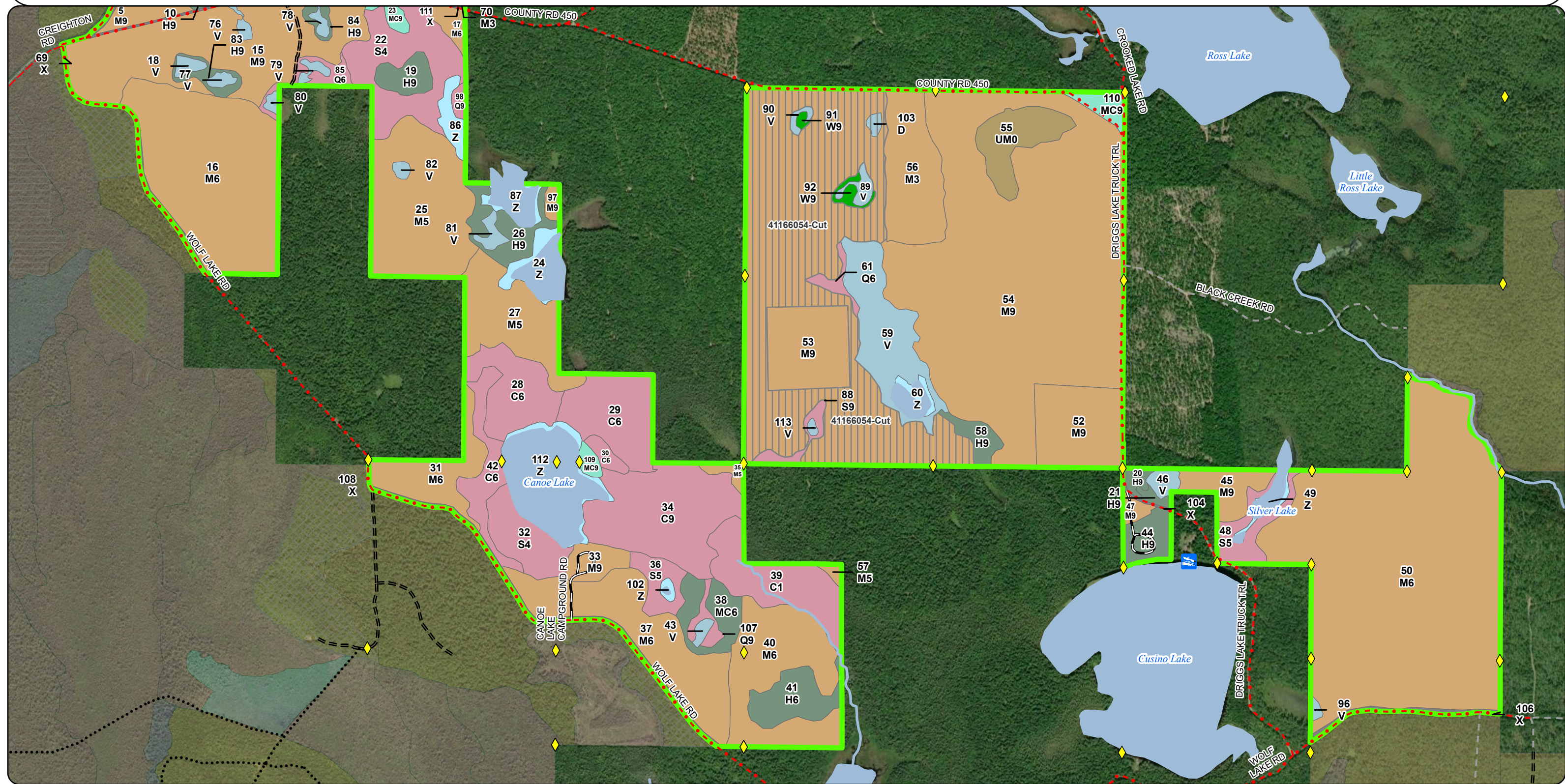
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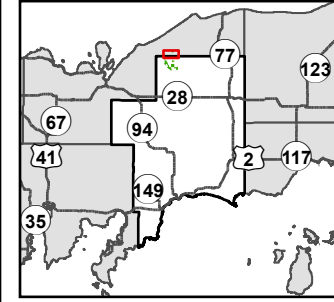
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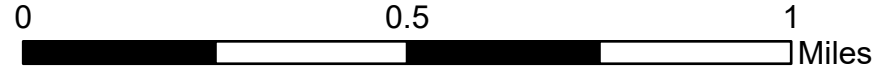
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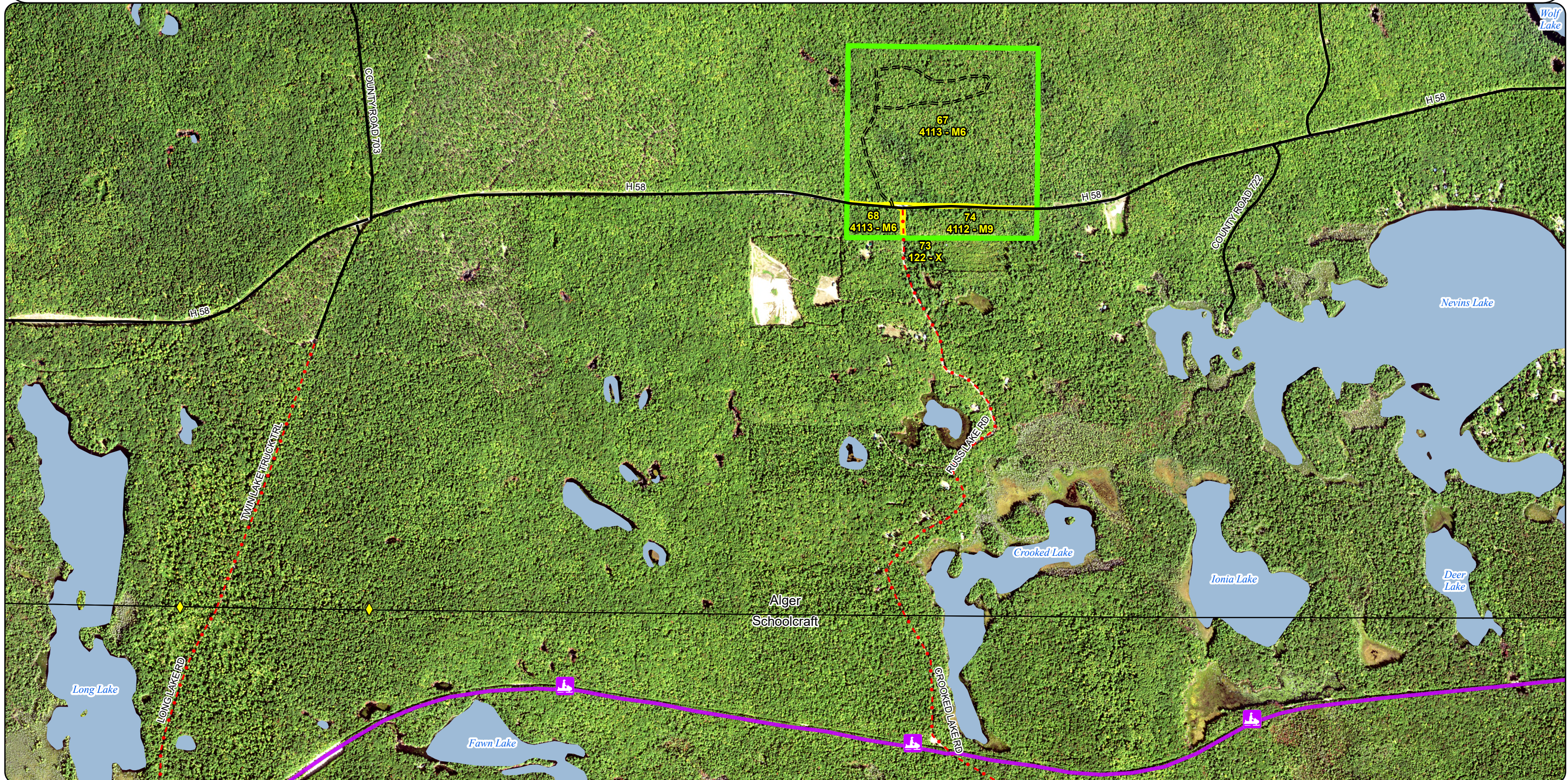
**Stand Boundary Map**



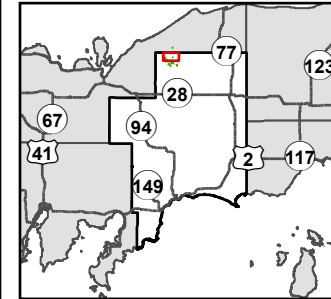
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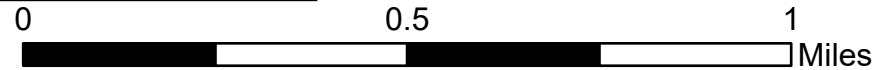
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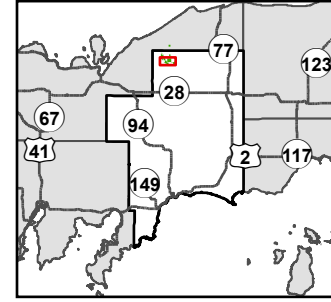
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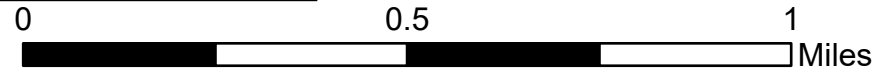
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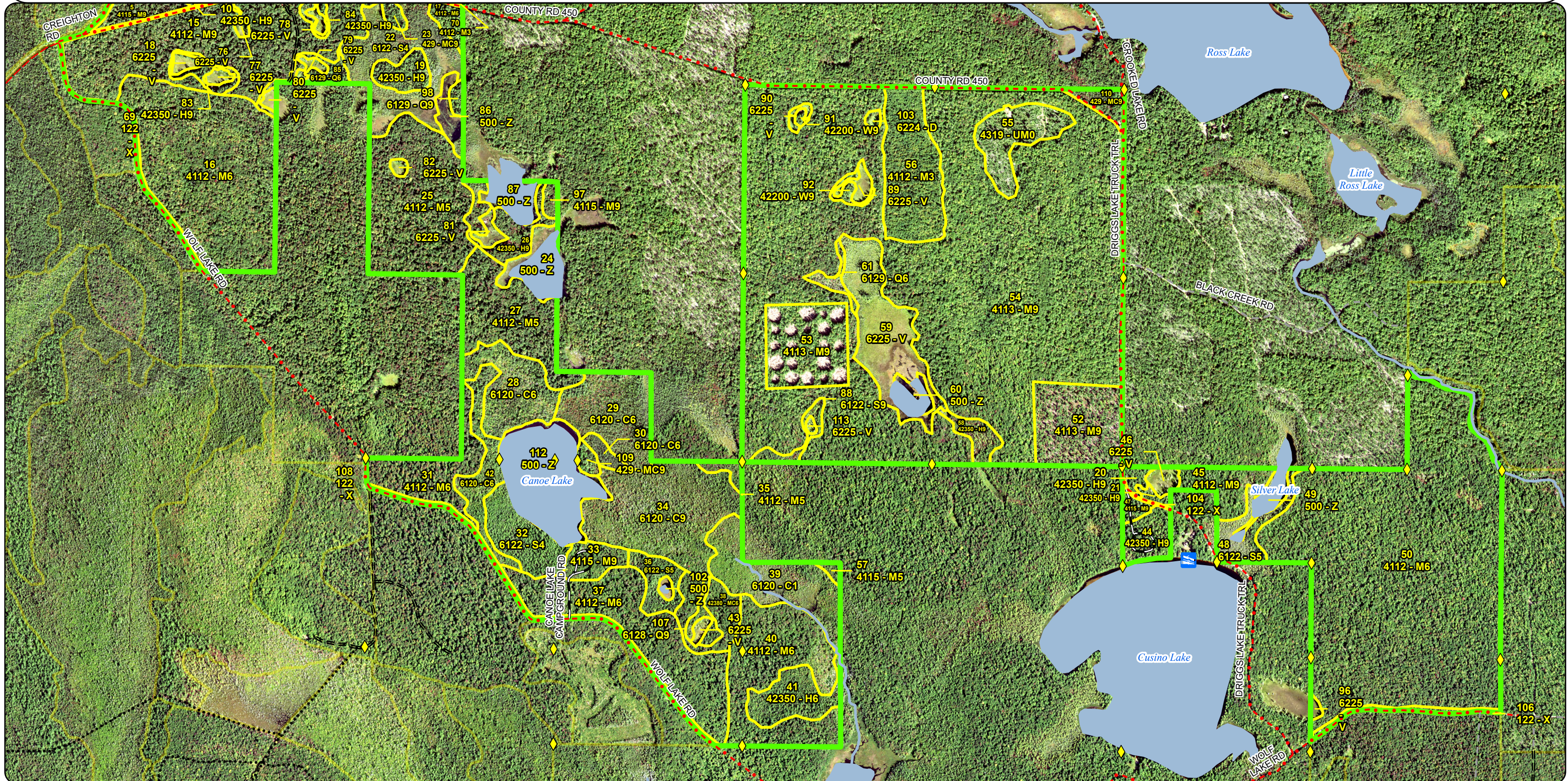
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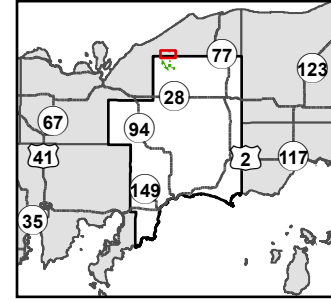
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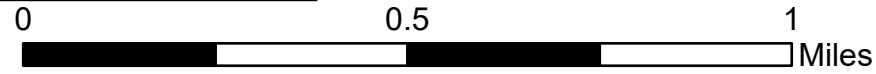
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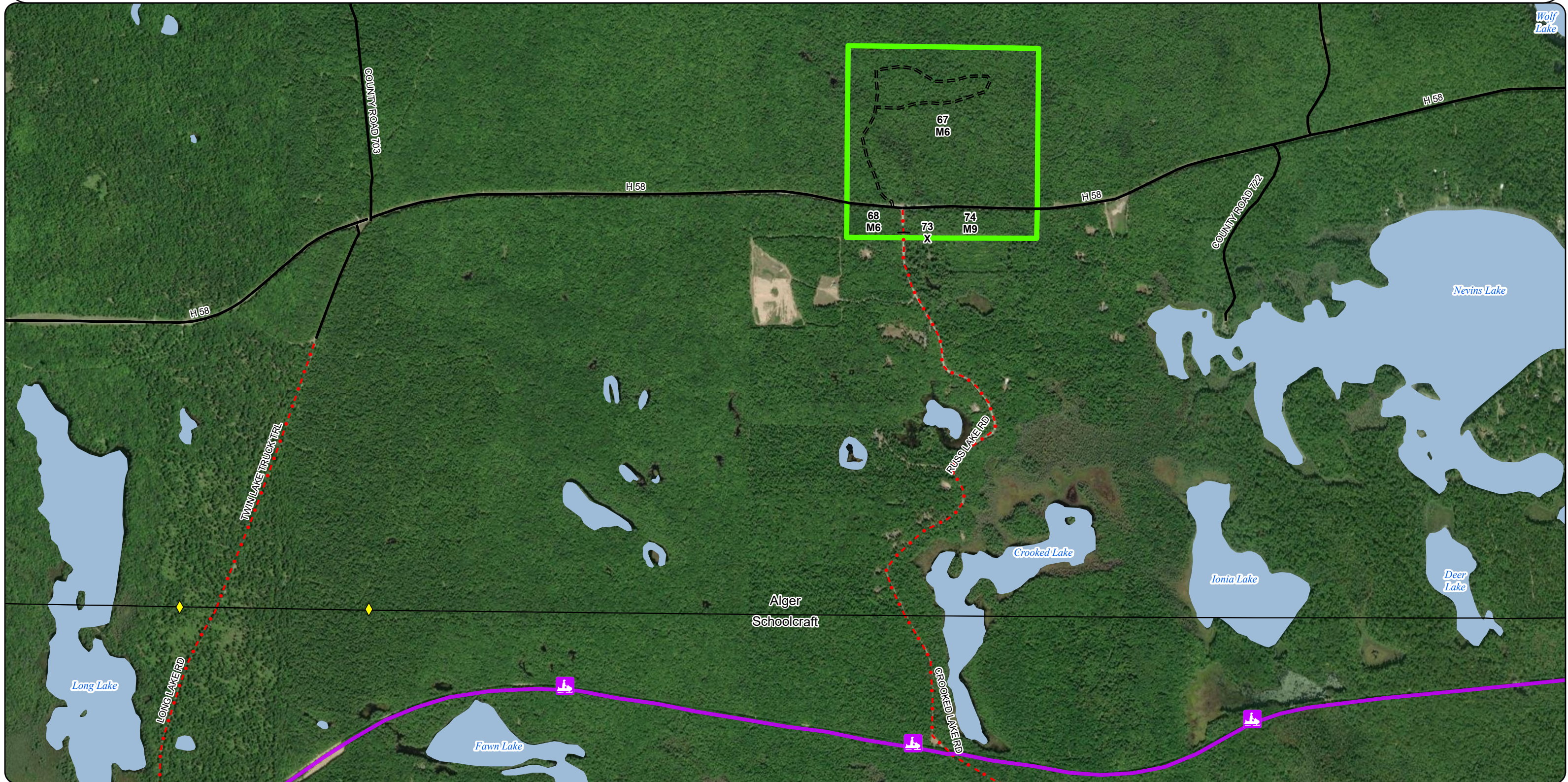
**Special Conservation Areas  
& Site Conditions Map**



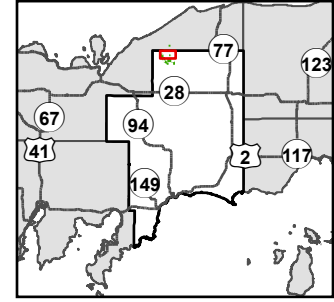
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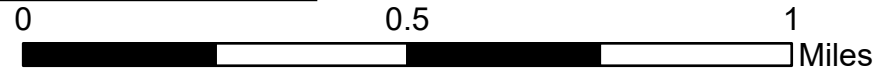
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- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



# Special Conservation Areas & Site Conditions Map



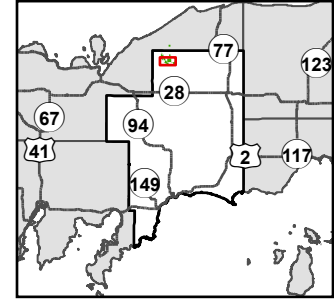
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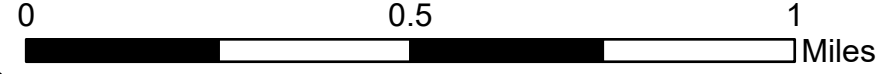
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- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground



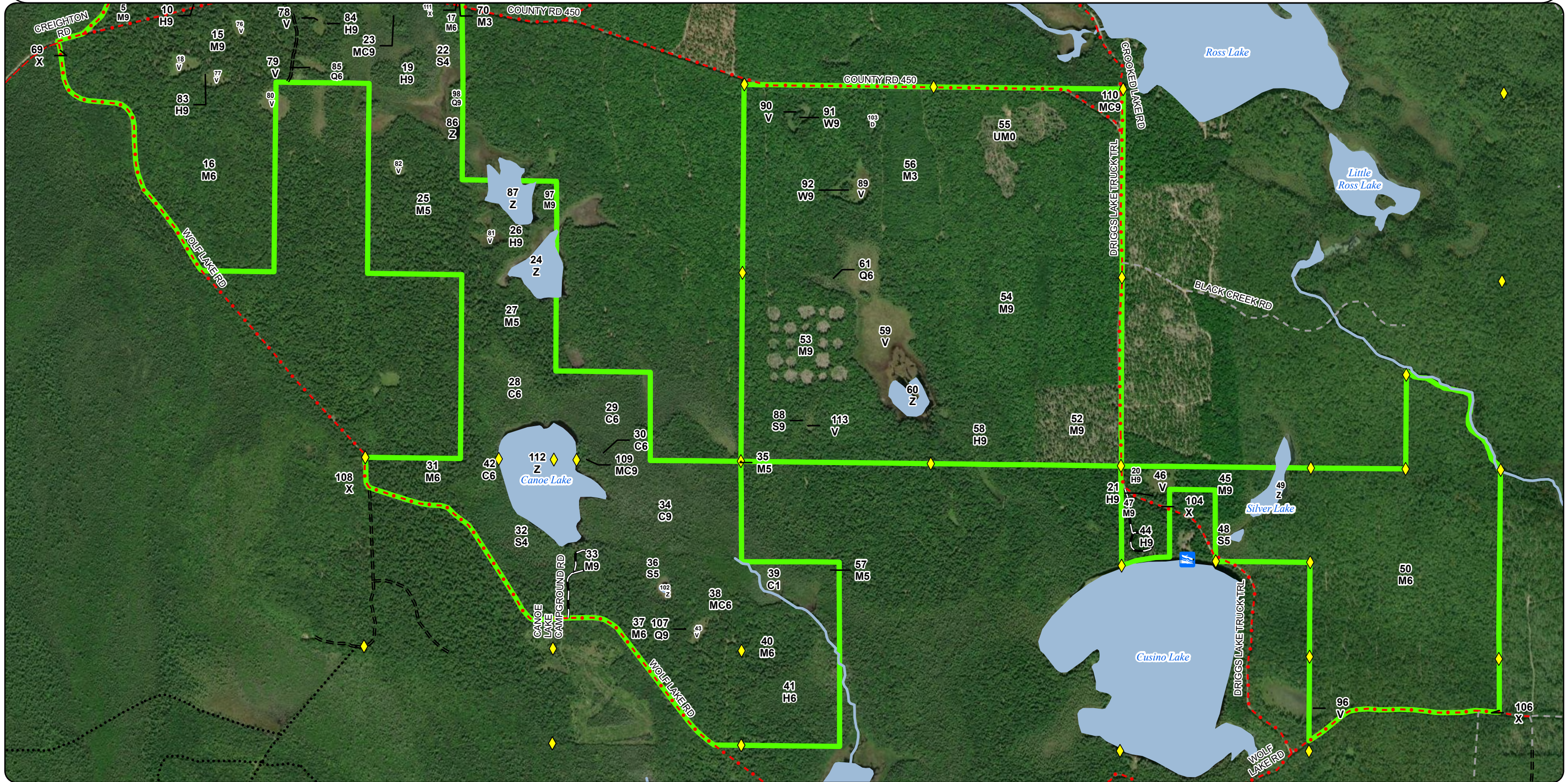
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- Cold Water Streams
- High Priority Trout Stream Buffer
- State Forest Campground



Charles Osborn: 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+	Unseen-Aged	Total
Bog	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Cedar	0	0	0	0	0	0	0	0	0	0	3	0	30	0	0	0	0	126	159
Hemlock	0	0	0	0	0	0	0	0	0	16	0	16	0	0	0	0	0	60	92
Lowland Conifers	0	0	0	0	0	0	0	0	0	2	0	0	0	6	0	0	0	20	28
Lowland Spruce/Fir	0	0	0	0	0	0	0	38	9	35	45	0	0	0	0	0	0	19	145
Northern Hardwood	0	0	0	36	2	0	0	0	0	0	0	0	0	0	0	0	0	1586	1623
Treed Bog	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Upland Conifers	0	0	0	0	0	0	0	0	2	0	0	4	0	0	0	0	0	42	48
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Water	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
White Pine	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	10	13
<b>Total</b>	<b>246</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>38</b>	<b>11</b>	<b>53</b>	<b>50</b>	<b>21</b>	<b>30</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1863</b>	<b>2353</b>

## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 166  
Total Compartment Acres: 2,353

Commercial Harvest - 846  
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
Northern Hardwood		0	19	0	0	404	0	0	0	0	423
	<b>Total</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>404</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>423</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		423	0	0	0	0	0	0	0	0	423
Next Step		0	216	0	0	0	207	0	0	0	423
	<b>Total</b>	<b>423</b>	<b>216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>207</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>846</b>

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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:**

<b>5</b>	<b>41166005-Cut</b>	82.2	4115 - Y.Birch, Hemlock NH	9	80	111- 140	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No
<p><u>Prescription</u> Mark to leave 50 BA. Leave a higher BA or buffer an appropriate distance from the Gemini Lake Pathway. Create canopy openings, within openings remove everything 2" DBH and greater. Do not cut oak or hemlock unless in the canopy opening. Buffer 100 ft from</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>54</b>	<b>41166054-Cut</b>	188.2	4113 - R.Maple, Conifer	9	81	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No
<p><u>Prescription</u> Mark to leave 50 BA. Create canopy openings, within openings remove everything 2" DBH and greater. Leave all hemlock and oak outside of the canopy gaps.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>66</b>	<b>41166066-Cut</b>	12.8	4112 - Maple, Beech, Cherry Association	9	72	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Mark down to 80 BA following The Complete Marker. Remove all balsam fir. Mark some canopy gaps, within gaps remove all beech except stems that produce nuts and bear claw trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>67 41166067-Cut</b>	133.9	4113 - R.Maple, Conifer	6	87	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Mark to leave 50 BA. Create canopy openings, within openings remove everything 2" DBH and greater. Leave all oak and hemlock outside of the canopy gaps. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification <u>Treatments:</u> <u>Acceptable Regen:</u> Hardwoods <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>100 41166100-Cut</b>	5.8	4112 - Maple, Beech, Cherry Association	9	92	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Mark down to 80 BA following The Complete Marker. Remove all balsam fir. Mark some canopy gaps, within gaps remove all beech except stems that produce nuts and bear claw trees. leave 100 ft buffer around Ross Lake. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Hardwoods <u>Other Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

**Total Treatment** 422.9  
**Acreage Proposed:**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Charles Osborn: Examiner

Compartment: 166  
Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2H	3D	3J	5D
76	76	0	0	Bog				
159	159	0	0	Cedar				
93	54	0	39	Hemlock	10	28		
28	20	0	8	Lowland Conifers	2		6	
145	100	0	45	Lowland Spruce/Fir	12			33
1623	1609	0	15	Northern Hardwood		15		
40	40	0	0	Treed Bog				
48	46	0	2	Upland Conifers	2			
20	20	0	0	Upland Mixed Forest				
31	31	0	0	Urban				
78	79	0	0	Water				
13	13	0	0	White Pine				
2,354	2,246		108	Total Forested Acres	26	43	6	33
	95%		5%	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	5D: Unproductive forest land	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treed Bog.							
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock stand surrounding bog.							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Charles Osborn: Examiner

Compartment: 166  
Year of Entry: 2027

3	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> treed bog							
4	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Treed bog.							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Charles Osborn: Examiner

Compartment: 166  
Year of Entry: 2027

9	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	11	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Charles Osborn: Examiner

Compartment: 166  
Year of Entry: 2027

15	<b>Available</b>	<b>5G: Research Study</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MWR plot							
16	<b>Available</b>	<b>5G: Research Study</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
17	<b>Available</b>	<b>5G: Research Study</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MWR site							
18	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Campground							
20	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Canoe Lake Campground							
21	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cusino Camp Ground							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Charles Osborn: Examiner

Compartment: 166  
Year of Entry: 2027

23	<b>Available</b>	<b>5G: Research Study</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
24	<b>Available</b>	<b>5G: Research Study</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
25	<b>Available</b>	<b>5G: Research Study</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
26	<b>Available</b>	<b>5G: Research Study</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							

**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
<b>South Gemini Lake Campground</b> <b>Comments</b> trailhead, boat launch	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	8
<b>North Gemini Lake Campground</b> <b>Comments</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	9
<b>Canoe Lake Campground</b> <b>Comments</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	9
<b>Cusino Lake Campground</b> <b>Comments</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	10
<b>Ross Lake Campground</b> <b>Comments</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	10

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>1</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	80	51-80	N/A	A beech bug's life. unit 1 TS:41023-18-01TCR: 10/9/2018Very high density of Red maple Seedlings. CAO 6/6/25																																													
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<b>2</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	80	81-110	N/A	A beech bug's life. unit 2 TS:41023-18-01 TCR: 10/9/2018																																													
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<b>3</b>	42200 - Natural White Pine	Sawtimber Well	5.0	98	81-110	N/A	White pine stand along road and bog, Thick canopy.																																													
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<b>4</b>	6122 - Black Spruce	Poletimber Medium	18.1	81	81-110	N/A	OPIC - FMD: A lot of spruce are 1-4" DBH. Soil=Dawson-Kinross Mucks North edge is open area of treed bog. South end is a black sand with Extra large White pine trees mixed in. High Basal area in south.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**5** 4115 - Y.Birch, Hemlock NH Sawtimber Well 142.4 80 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole	11	80
Red Maple	20	Log	12	80
Yellow Birch	20	Pole/Log	9	
Balsam Fir	10	Pole	6	
Black Cherry	20	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	< 5 feet
Beech	Full	< 5 feet	< 5 feet
Hemlock	Trace	5 - 10 feet	5 - 10 feet

OPIC - FMD: Along Twinn Lake T.T.. Ancillary data is available. Soil=Garlic Sand hab.type=ATFD5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands. Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what they have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit. 10/10/11 BB Sale is now on proposal 32-11 Loon Call Beech Removal. Stand is 133 acres. After the sale it will be evaluated for herbicide application, seed viability is approx 1 year so herbicide should be done in year 2. Residual BA = hard maple 50 sq ft, red maple 20 sq ft, hemlock 5 sq ft, yellow birch 2 sq ft, cherry 1 sq ft.[8-10-12] Stand is now under contract. Sale has been Cut and Closed Check beech brush during OI 1982 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1578 at a cost of \$25576.80. (7/30/14 RH)[8-5-14] Sale completed/closed TCR dtd 6-11-14. 2015 - Salvage Sale stand: BA between 50 and 80 BA. Hard maple and Re maple between pole and log size. Beech brush in

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.5	80	81-110	N/A	understory. OPIC - FMD: North Gemini Lake State Forest Campground. Planted with white pine & oak in 2002. Soil=Garlic Sand Hab. Type=ATFD [12/8/10 jb] stand is being treated with a salvage cut on the beech and other spp that are hazard trees to the campground.41-004-11-02 [10-19-2011] Sale is now completed TCR dtd 10-19-2011. North Gemini Lake Campground Beech Salvage sale, very low BA of Red maple saw logs. Beech brush growing up as understory.																																					
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7	500 - Water	None	5.4			No	Pond.																																					
8	6122 - Black Spruce	Sapling Poor	27.1	91	1-50	N/A	Low, wet site. White pine, b. spruce and tamarack; especially near the edges. The Gemini Lake hiking path is in the north part of this stand. Shrubs are growing over the trail and making it difficult to follow. 98=white pine & b.spruce soil=Dawson, Greenwood & Loxley Peatstreed bog with Black spruce, white pine, and tamarack scattered.																																					
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9	6225 - Bog	None	16.7			No	Bog along side Co Rd 450. Some very small islands of trees within bog.																																					
10	42350 - Upland Hemlock	Sawtimber Well	7.8	166	141-170	N/A	Narrow stand around a bog, next to Co Rd 450 and near S.Gemini Campground. Large diameter hemlock & white pine. Soil=Finch-Spot Complex habitat type=PARVAa																																					
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11	429 - Mixed Upland Conifers	Sawtimber Well	14.7	116	111-140	N/A	Transition between upland hardwoods and bogs. Large diameter white pine and hemlock with mixed conifers and hardwood poles. The Gemini pathway is in the east part of this stand. Soil=Finch-Spot Complex habitat type=PARVAa Hemlock stand with scattered white pine and red maple. White pine are near shore of lake. Varying ages and BA of hemlock.																																					
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12	42350 - Upland Hemlock	Sawtimber Well	10.7	130	111-140	N/A	A narrow stand around the edge of a bog, consisting of large diameter hemlock and white pine, with a mix of conifer and hardwood poles. The Gemini Lake hiking path goes through this stand. Soil=Finch-Spot Complex and Garlic Sand Mixed conifer stand, mostly hemlock surrounding lowland. Transition zone.																																					
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<b>13</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	6.0	80	51-80	N/A	South Gemini Lake Camp ground. Beech salvage cut, scattered large hemlock near shore, understory full of Beech brush.																																
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<b>14</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.4	89	81-110	N/A	OPIC - FMD: Along Co Rd 450, near S. Gemini Campground. Thinned in 1999. Ancillary data is available. Soil=Paquin Sand Hab. Type=ATFDRed maple and beech stand, not cut during salvage operations. Stand has been thinned before. BA is still 50 to 80, about 1/2 Red maple and 1/2 Beech. all beech ahs bbd.  3/27/2025Regeneration is all beech. Consider doing a shelter wood harvest. Low quality stems within the stand.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**15** 4112 - Maple, Beech, Cherry Association Sawtimber Well 88.8 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	80	Log	12	80
Yellow Birch	10	Log/Pole	11	
Balsam Fir	5	Pole	8	
Hemlock	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	Variable	Variable

OPIC - FMD: Along Co Rd 450. Ancillary data is available. Soil=Paquin Sand hab. Type=ATFD5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands. Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what they have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit. 10/10/11 BB Sale is now on proposal 32-11 Loon Call Beech Removal. Stand is 87 acres. After the sale it will be evaluated for herbicide application, seed viability is approx 1 year so herbicide should be done in year 2. Residual BA = hard maple 31 sq ft, red maple 20 sq ft, hemlock 9 sq ft, yellow birch 2 sq ft.[8-10-12] Stand is now under contract. Sale is Closed Check Beech Brush during OI. 1982 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1578 at a cost of \$25576.80. (7/30/14 RH)[8-5-14] Sale is now closed/completed TCR dtd 6-11-14. Beech salvage sale: red maple that remain range from pole to log size. Scattered mis. species. beech brush fills understory.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
16	4112 - Maple, Beech, Cherry Association	Poletimber Well	97.0	90	81-110	N/A	OPIC - FMD: Along Wolf Lake T.T.. Thinned in 2002-2003. Ancillary data is available. Soil=Paquin Sand & Garlic Sand hab type=ATFDRed maple stand with BA ranging from 70-90. Pole size trees. 6/5/25Stand would be a good candidate for harvest next inventory cycle																																														
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21	42350 - Upland Hemlock	Sawtimber Well	1.7	116	141-170	N/A	Narrow stand around a bog containing large daimeter hemlock and white pine. The stand is adjacent to Co Rd 450, and near Cusino Lake campground.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
<b>22</b>	6122 - Black Spruce	Poletimber Poor	37.7	61	1-50	N/A	OPIC - FMD: Stand is visible from Co Rd 450. Scattered trees - b.spruce, w.pine & tamarack - especially around the edges of the stand. Soil=Dawson, Greenwood & Loxley Peats																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																						
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<b>23</b>	429 - Mixed Upland Conifers	Sawtimber Well	4.3	101	111-140	N/A	OPIC - FMD: Along Co Rd 450. Soil=Paquin Sand hab. Type=ATFD																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																						
Red Maple	10	Log	10																																							
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<b>24</b>	500 - Water	Unspecified	11.6			No	Pond with bog around the edges.																																			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**25** 4112 - Maple, Beech, Cherry Association Poletimber Medium 62.1 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20		11	
Red Maple	55		10	80
Yellow Birch	10	Pole	9	
Black Spruce	5	Pole	8	
Hemlock	5	Log	14	
Black Cherry	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	10 - 20 feet	10 - 20 feet
Black Cherry	Trace	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	>20 feet	>20 feet

OPIC - FMD: Thinned in 1987. Variable BA (70-130); thin to 80 BA where applicable. There are more hemlock trees near the bogs & ponds; mark to favor hemlock reproduction in these areas. Must cross private land to access this stand (Forest Land Group). Follow BMP guidelines near the bogs & ponds. Acceptable regeneration species are any combination of the existing tree species. Ancillary data is available. 99=yellow birch and cherry Soil=Paquin Sand & Garlic Sand hab. Type=ATFD[8-13-08] Stand is now under contract TS 41-020-07-01 Loon Call Hardwood. Residual BA: Sugar maple - 11; red maple - 36; y.birch - 1; beech - 19; w.spruce - 1; w.pine - 1; hemlock - 5; b.cherry - 2; total = 76 sq.ft./acre.[8-26-09] sale completed TCR dtd 8-26-09.5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Anaylsis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands.Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what the have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit.[6/26/12 bb] Stand is now on proposal 25-12

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																										
							Beech Savages Salvage Sale. Residual BA = Red Maple 39', hard maple 17', yellow birch 2' and hemlock 2' for a total of 60'[12/4/12 RFT] Stand is now under contract 41-025-12-01Beech Savage Salvage Sale.[7-3-13] Sale is now completed TCR dtd 6-28-13.																										
<b>26</b>	42350 - Upland Hemlock	Sawtimber Well	13.1	101	111-140	N/A	OPIC - FMD: Between 2 ponds. Large diameter hemlock and white pine with a lot of 6-10" mixed conifers. 99=red maple, yellow birch & beech 98=b.spruce, cedar and white pine soil=Finch-Spot Complex hab.type=PARVAa																										
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Canopy Species	% Cover	Size Class	DBH	Age																													
Balsam Fir	10	Pole	8																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 4112 - Maple, Beech, Cherry Association Poletimber Medium 35.8 80 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	75	Log/Pole	12	80
Yellow Birch	15	Pole	8	
Balsam Fir	5	Pole	8	
Black Cherry	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	10 - 20 feet	10 - 20 feet

OPIC - FMD: Thinned in 2002. Dense hardwood regeneration less than 2' tall. Ancillary data is available. Soil=Garlic Sand Hab.Type=ATFD5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands. Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what they have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit.[6/26/12 bb] Stand is now on proposal 25-12 Beech Savages Salvage Sale. Residual BA = Red Maple 36', hard maple 11', yellow birch 3' and hemlock 3' for a total of 53'[12/4/12 RFT] Stand is now under contract 41-025-12-01Beech Savage Salvage Sale.[7-3-13] Sale is now completed TCR dtd 6-28-13. Beech salvage sale: 50-80 BA of residual. Mostly a pole stand with some scattered logs.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>28</b>	6120 - Lowland Cedar	Poletimber Well	24.6	106	111-140	N/A	OPIC - FMD: Along the north part of Cusino Lake. 98=b.fir, hemlock, tamarack soil=Finch-Spot Complex and Carbondale-Lupton-Tawas Mucks																																								
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<b>29</b>	6120 - Lowland Cedar	Poletimber Well	29.5	116	111-140	N/A	A portion of this stand borders Canoe Lake. Low, wet ground. Regeneration species include: cedar, b.fir, b.spruce & r.maple.																																								
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<b>30</b>	6120 - Lowland Cedar	Poletimber Well	3.3	96	111-140	N/A	Low, wet ground. Soil=Carbondale-Lupton-Tawas Mucks																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 4112 - Maple, Beech, Cherry Association Poletimber Well 22.7 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Log/Pole	10	80
Red Maple	40	Log	10	80
Yellow Birch	5	Log/Pole	10	
White Pine	5	Log	14	
Black Cherry	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	< 5 feet	< 5 feet
Balsam Fir	Low	< 5 feet	< 5 feet

OPIC - FMD: Along Wolf Lake TT. BA is variable (70-140), thin to 80 BA where applicable. Ancillary data is available. Acceptable regeneration species are any combination of the existing tree species. Soil=Paquin Sand & Garlic Sand Hab.Type=ATFD [8-13-08] Stand is now under contract TS 41-020-07-01 Loon Call Hardwood. Residual BA: Sugar maple - 20; red maple - 21; y.birch - 3; beech - 18; balsam fir - 1; w.spruce - 1; w.pine - 2; hemlock - 7; b.cherry - 1; total = 74 sq.ft./acre.

5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands.

Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what they have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
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<b>32</b>	6122 - Black Spruce	Poletimber Poor	18.6	96	111-140	N/A	OPIC - FMD: Along the shore of Canoe Lake, and near Canoe Lake campground. Low, wet ground. Soil=Carbondale-Lupton-Tawas Mucks  Mixed conifer stand with Black spruce being dominate component.																																									
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<b>33</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	8.5	80	81-110	N/A	OPIC - FMD: Canoe Lake State Forest Campground. Soil=Garlic Sand Hab.Type=ATFD  Canoe lake camp ground. red maple with beech brush within the understory. Hemlock and White pine hear lake.																																									
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<b>34</b>	6120 - Lowland Cedar	Sawtimber Well	54.5	106	111-140	N/A	OPIC - FMD: Stand is next to Canoe Lake & Canoe Lake Campground. Low, wet ground. Small creek within stand. Soil=Carbondale-Lupton-Tawas Mucks  Lowland cedar stand, very large in size (acreage). Dense canopy of thick cedar. Hard walking.																																									
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<b>35</b>	4112 - Maple, Beech, Cherry Association	Poletimber Medium	2.8	81	51-80	N/A	OPIC - FMD: Ridge in swamp with a mix of hardwoods & conifers. Difficult access across private land and a drainage to the north. Soil=Garlic Sand Hab.Type=ATFD  Mixed stand of Northern hardwoods. Poorer quality of trees on low part of ridge. Hard access due to swampy land to the south and private land on north and west.																																									
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<b>36</b>	6122 - Black Spruce	Poletimber Medium	9.0	76	81-110	N/A	OPIC - FMD: Surrounds a small bog. 98=w.pine & hemlock soil=Finch-Spot Complex hab.type=PARVAa  Black spruce stand with other conifers mixed in. Stand surrounds a treed bog with a low spot that can be a seasonal pond.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 4112 - Maple, Beech, Cherry Association Poletimber Well 54.5 76 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Log/Pole	10	76
Red Maple	35	Log/Pole	10	
Yellow Birch	10	Pole	8	
Black Cherry	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	< 5 feet
Beech	Full	< 5 feet	< 5 feet
Black Cherry	Trace	>20 feet	>20 feet

OPIC - FMD: Along Wolf Lake T.T., and around Canoe Lake Campground. Ancillary data is available. Thinned in 2001. Soil=Garlic Sand Hab.Type=ATFD

5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands.

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[6/26/12 bb] Stand is now on proposal 6-12 Canoe Lake Beech Salvage Sale. Residual BA = Red Maple 18', hard maple 43', yellow birch 3' and hemlock 1', cherry 4' for a total of 68'

[12/4/12 RFT] Stand is now under contract 41-006-12-01 Canoe Lake Beech Salvage Sale.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
							12/18/12 RFT - Sale is now closed/completed TCR dtd 12-17-12. 535 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1579 at a cost of \$6634.00. (7/30/14 RH)
							Beech salvage sale: Remaining trees are mostly hard and red maple (pole size) with a BA ranging from 50-80. A few larger logs are scattered.

**38** 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 13.1 76 81-110 N/A

OPIC - FMD: Mainly red maple and b.fir. Dry ground with old logging trails. Garlic Sand & Finch-Spot Complex Mixed pole stand of Red maple, hemlock and Balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole	9	76	Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	30	Pole	6		Beech	High	10 - 20 feet	10 - 20 feet
Hemlock	30	Pole	9		Hemlock	Medium	< 5 feet	< 5 feet

**39** 6120 - Lowland Cedar Sapling Poor 30.7 91 1-50 N/A

OPIC - FMD: Low, wet ground with seasonal drain & ponds that flows toward Worchester Lake. Tall brush (alder, willow etc), and some trees (spruce, cedar, birch) especially near the edges of the stand. Soil=Carbondale-Lupton-Tawas Mucks Treed bog with cedar and tamarack with many drainages running thru it. Areas of thick cedar near the edge of stand with a few scattered hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	80	Pole/Sapling	6	91	Tag Alder	High	5 - 10 feet	5 - 10 feet
Tamarack	20	Pole/Sapling	5		Northern White Cedar	High	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**40** 4112 - Maple, Beech, Cherry Association Poletimber Well

49.4 81 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	85	Log/Pole	10	81
Yellow Birch	5	Pole	6	
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Full	10 - 20 feet	10 - 20 feet

OPIC - FMD: Thinned in 1991. Underplanted with white pine and oak in 1992. Ancillary data is available. Soil=Garlic Sand Hab.Type=ATFD5/10/11 BB This stand was reviewed at the 2012 Compartment Review as part of a Unit Wide Beech Analysis Project. It was decided at the Review to harvest all the beech and not leave any residual besides the standing dead. The reason was to eradicate the seed source. After the harvest at some point it was agreed to treat the beech brush with a glyphosate chemical. Below is the original write-up for the beech bark stands.Beech Bark Disease (BBD) has moved across much of the Shingleton Management Unit over the passed several years, moving from east to west. There has been some salvage operations that have occurred as well as implementing the beech bark management guidance into regular northern hardwood prescriptions. However, BBD has advanced faster than expected and since the State operates on a 10 year inventory cycle it is feared that many of the stands with the highest component of beech may be in a stage of decline that will make them in-operable with the current timber markets if they are not treated immediately. It is widely known that regenerating stands with high components of beech is problematic due to the root suckering of beech. Since beech is a prolific sprouter especially under stress most of the initial stands in the outbreak area have regenerated to beech brush. This beech brush gets the disease and never recruits into the overstory all the while shading out desirable competing regeneration. It is evident that within these types of stands if something is not done Forest Certification could be threatened by the in-ability to regenerate them. Most of these stands are not stocked high enough for a traditional commercial treatment and if the beech dies along with subsequent sprouting these stands may never again be viable. The current beech bark guidelines recommend retaining at least 10% of the beech resource when treating stands. However, by retaining potential trees that will get the disease it will forever be perpetuated in the stand. The Shingleton Management Unit is proposing cutting all beech within these prescribed stands unless dead to eradicate the seed source. In addition, different techniques will be applied to also eradicate the beech brush. If successful, beech resistant trees will be re-introduced in the stands as it becomes available. In the short term oak will be planted on many of the sites to provide diversity and a hard mast resource. One of the techniques being contemplated for follow up treatment is an application of herbicide. Many of the New England states have been dealing with BBD for decades and what they have gleaned successful for dealing with beech brush is mist blowing a glyphosate product during the growing season. The proposed prescriptions account for approximately 919 acres which is less than 2% of the northern hardwood resource within the Shingleton Management Unit.[6/26/12 bb] Stand is now on proposal 6-12 Canoe Lake Beech Salvage Sale. Residual BA = Red Maple 18', hard maple 36', yellow birch 3' and hemlock 11', cherry 2', white pine 1', balsam 1' for a total of 71'[12/4/12 RFT] Stand is now under contract 41-006-12-01 Canoe Lake Beech Salvage Sale.12/18/12 RFT - Sale is now closed/completed TCR dtd 12-17-12. 535 Oak Seedlings were planted in the spring of 2014 under FTP #w41-1579 at a cost of \$6634.00. (7/30/14 RH)Beech Salvage stand with low BA of Red maple with scattered Balsam fir and Yellow birch. Pole stand with beech brush filling the understory.northwest partook f the stand

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>41</b>	42350 - Upland Hemlock	Poletimber Well	16.4	81	171-200	N/A	should be split off. It is swamp with 25% yellow Birch avg diameter 9", 45% Cedar avg diameter 10", 30% red maple, a green diameter 6" poles. Sub anonymous medium density beech 10-15 ft Avg BA 140																																									
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<b>42</b>	6120 - Lowland Cedar	Poletimber Well	16.0	86	111-140	N/A	OPIC - FMD: Mix of conifers and hardwoods along the edge of a hardwood stand. 99=red maple, yellow birch 98=w.pine, b.spruce Soil=Carbondale-Lupton-Tawas Mucks																																									
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<b>43</b>	6225 - Bog	None	1.5			No	Small bog.																																									
<b>44</b>	42350 - Upland Hemlock	Sawtimber Well	10.0	121	111-140	N/A	OPIC - FMD: Cusino Lake State Forest Campground. Many of the large Hemlock are dying from the Hemlock looper, and a lot of the trees near the campsites have been removed. (spring 2005) 99=red maple, yellow birch & beech soil=Garlic Sand & Finch-Spot Complex hab.type= PARVAa																																									
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<b>45</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.0	91	81-110	N/A	OPIC - FMD: Ancillary data is available. Soils= Garlic Sands Hab. Type=ATFD																																									
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<b>46</b>	6225 - Bog	None	3.3			No	Open small bog with water. White pine trees and small Black spruce.																																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>47</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	2.8	76	81-110	N/A	OPIC - FMD: Along Co Rd 450 and the entrance to Cusino Lake Campground. Ancillary data is available. Soil=Garlic Sand Hab.Type=ATFD																																														
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<b>48</b>	6122 - Black Spruce	Poletimber Medium	12.5	91	1-50	N/A	OPIC - FMD: Low, wet area with a pond in the middle. Along Co Rd 450. Soil=Dawson, Greenwood & Loxley PeatsBlack spruce bog surrounding water hole. Mix of other species scattered throughout. Pit and mound type stand.																																														
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<b>49</b>	500 - Water	None	4.2			No	Small bond with bog around the edges.																																														
<b>50</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	245.5	76	81-110	N/A	OPIC - FMD: Underplanted with oak and white pine in 1992. Ancillary data is available. 41-034-17 "Contractors Downunder" Units 1-5. TCR: 1-7-21																																														
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<b>51</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	10.4	92	1-50	N/A	OPIC - FMD: Ross Lake State Forest Campground. Soil=Garlic Sand Hab.type=ATFD [12/8/10 jb] stand is being treated with a salvage cut on the beech and other spp that are hazard trees to the campground.41-004-11-02 [10-19-2011] Sale is now completed TCR dtd 10-19-2011. Ross lake camp ground, nice trees that are big in size. Beech in the understory and White pine near the shoreline.																																														
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<b>52</b>	4113 - R.Maple, Conifer	Sawtimber Well	32.0	81	81-110	N/A	Cut heavily in 1989-1991. This stand contains areas of planted Oak (east of s.56), and planted White Pine (SW part of stand). [6/4/08 jb] Went into the oak stand to look for the planted oak to show new wildlife tech. The oak are about 25-30' tall and 3"DBH. Most of the trees are found within old skid trails. When the area is ready to be harvested again consideration to this regeneration is important. May want to consider using an inmate crew to assure no damage is done to the small oak.10/21/15: Mix of species, lots of poles that will move up size classes within the next 10 years. "This stand was flagged with high or very high potential for spruce budworm impact but the decision at Compartment Review was not to harvest the stand at this time."Monsters INC Maple MWR units 1,2. TS: 41-006-17-01Stand was harvested as a shelterwood in Matt Walters Research project.																																														
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<b>55</b>	4319 - Mixed Upland Forest	Unspecified	19.5	8	1-50		There is a small sandy borrow pit in the north part of the stand. Monsters INC Maple MWR TS: 41-006-17-01 unit 3. TCR: 9/24/18																																							
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<b>56</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	35.6	27	1-50	N/A	OPIC - FMD: Clearcut in 2000. Some residual trees including: hemlock, white pine and beech. (<10 BA total) During a field check with the OI audit team (11/02), it was mentioned to plant Oak in this stand. Soil=Garlic Sand Hab.type=ATFD  Stump sprouts of Red maple, dog hair thick. [9/19/05 pre-review] Also plant Hemlock - contact Bill Scullen (Deer Range Improvement Program Coordinator) to get Hemlock seedlings. [6/19/06 km] W41-1295 oak & hemlock underplanting. [6/6/07 jb] Planted 1595 oak and 14860 hem. Regen check in 2008 good survival, close FTP 380 t/a 80% survival																																							
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<b>57</b>	4115 - Y.Birch, Hemlock NH	Poletimber Medium	1.4	81	51-80	N/A	OPIC - FMD: Borders a low, wet area. Access through private to north. Soil=Garlic Sand Hab. Type=ATFD																																										
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<b>58</b>	42350 - Upland Hemlock	Sawtimber Well	6.3	96	81-110	N/A	OPIC - FMD: Small drainage through stand. 98=b.fir, cedar and w.pine 99=r.maple, beech, and y.birch soil=Finch-Spot Complex Hab.type=PARVAa																																										
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<b>59</b>	6225 - Bog	None	35.6			No	Treed bog of tamarack, black spruce, and white pine.																																										
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<b>60</b>	500 - Water	Unspecified	5.0			No	lake																																										
<b>61</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.3	98	81-110	N/A	OPIC - FMD: Along the edge of a large bog; the stand is on a hill down to a low, wet area. Large white pine and hemlock, with a variety of conifers and hardwoods under. Soil=Dawson, Greenwood & Ioxley Peats																																										
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<b>62</b>	429 - Mixed Upland Conifers	Sawtimber Well	5.5	92	81-110	N/A	OPIC - FMD: Steep hill with flat, wet area at the bottom. Soil=Garlic Sand (on hill) and Deford-AuSable-Tawas Mucks (at bottom of hill) Stand on steep ridge that is a buffer between hardwood stand and lowland bog. Mixed conifer stand.																																										
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<b>63</b>	6224 - Treed Bog	None	38.4			No	Bog containing Ross Creek and a tributary. Scattered black spruce, cedar & tamarack. Soil=Deford, AuSable, Tawas Mucks, frequently flooded																																										
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<b>64</b>	6122 - Black Spruce	Poletimber Medium	11.6	82	1-50	N/A	OPIC - FMD: Low, wet ground near ross Creek. Regeneration species are: black spruce, tamarack, white pine and cedar. Soil=Finch-Spot Complex Hab.type=PARVAa																																																							
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<b>65</b>	42350 - Upland Hemlock	Sawtimber Well	1.9	122	141-170	N/A	OPIC - FMD: Ridge with difficult access across a drainage or through private property. Some large diameter white pine and hemlock with poor quality hardwood poles, and dense b.fir regeneration. Soil=Finch-Spot Complex Hab.type=PARVAa																																																							
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<b>66</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.8	72	111-140	N/A	OPIC - FMD: Thinned in 2000. Along Co Rd, across from Ross Lake Campground. Ancillary data is available. 99=red maple, sugar maple, b.cherry Soil=Garlic Sand Hab.type=ATFD																																																							
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<b>67</b>	4113 - R.Maple, Conifer	Poletimber Well	133.9	87	81-110	N/A	OPIC - FMD: Stand is next to H-58. Thinned in 1999 by D.O.C.. Oak was planted in 2001. Ancillary data is available. 98=white pine, hemlock & white spruce Soil=Kalkaska																																																							
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Hemlock	Trace	5 - 10 feet	5 - 10 feet																																																											
<b>68</b>	4113 - R.Maple, Conifer	Poletimber Well	8.0	87	51-80	N/A	OPIC - FMD: Thinned in 1999 by D.O.C.. Oak acorns planted in 2001. Along H-58 and Ross Lake Rd. Ancillary data is available. 99=b.cherry, beech & y.birch 98=white pine & hemlock Soil=Kalkaska																																																							
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<b>69</b>	122 - Road/Parking Lot	None	15.5			No	Roads: Twin Lake TT, Wolf Lake TT, and Co Rd 450.																																																							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
<b>70</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	1.8	31	81-110	N/A	OPIC - FMD: Narrow stand along Co Rd 450. Soil=Garlic Sand Hab. Type=ATFD  Sapling/pole stand, very dense, young stand. Very few large trees.																																										
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<b>71</b>	42200 - Natural White Pine	Sawtimber Well	5.0	88	51-80	N/A	OPIC - FMD: Low, wet ground. 98=b.spruce & tamarack soil=Spot PeatMixed lowland deciduous and Coniferous stand, mostly consisting of hemlock. 3/27/2025 stand is lowland coniferous stand consisting of white pine and black spruce. Would suggest a change in cover type. No hemlock was present. Age of white pine was a guess will need to come back with increment boar to get accurate age.																																										
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<b>72</b>	122 - Road/Parking Lot	None	0.9			No	Ross Lake road.																																										
<b>73</b>	122 - Road/Parking Lot	None	2.5			No	Intersection of H-58 and Ross Lake RD.																																										
<b>74</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.0	87	51-80	N/A	OPIC - FMD: Along H-58 and the Ross Lake Rd. Thinned in 1999 by D.O.C.. Oak acorns planted in 2001. Ancillary data is available. 99=b.cherry, beech & y.birch 98=white pine & hemlock Soil=Kalkaska Red Maple stand, very similar to adjacent stands. Lower BA but some nice log size trees that can wait until next inventory to cut.																																										
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<b>75</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	11.4	186	111-140	N/A	Very old strip of hemlock along lake shore. Pathway for hikers runs thru stand. 3/27/25Starting to see tops dying back in larger white pine and hemlock. Widow markers are present above placard 6 on the trail.																																										
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<b>76</b>	6225 - Bog	None	1.4			No	Small pond along roadside.																																										
<b>77</b>	6225 - Bog	None	1.5			No	small bog.																																										
<b>78</b>	6225 - Bog	None	1.8			No	small bog.																																										
<b>79</b>	6225 - Bog	None	1.7			No	Small bog.																																										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
80	6225 - Bog	None	1.2			No	small bog, other half on private land.																															
81	6225 - Bog	None	2.6			No	Small bog.																															
82	6225 - Bog	None	1.1			No	Small bog within hardwood stand.																															
83	42350 - Upland Hemlock	Sawtimber Well	3.9	126	141-170	N/A	OPIC - FMD: Narrow stand between hardwoods and small bog. Large diameter hemlock and w.pine with a mixture of conifer and hardwoods apx 6-10" DBH. Soil=Dawson, Greenwood & Loxley Peats Hemlock stand around the edge of a bog.																															
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84	42350 - Upland Hemlock	Sawtimber Well	2.1	126	171-200	N/A	Transition stand between Hardwood and bog. Mostly hemlock, with a range in size.																															
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85	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.9	126	141-170	N/A	OPIC - FMD: Narrow stand between hardwoods and small bog. Large diameter hemlock and w.pine with a mixture of conifer and hardwoods apx 6-10" DBH. Soil=Finch-Spot Complex Hemlock stand surrounding bog. Buffer between Red maple stand and bog.																															
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86	500 - Water	Unspecified	5.6			No	Small pond with drainage from the north.																															
87	500 - Water	Unspecified	8.1			No	Pond with bog around the edges.																															
88	6122 - Black Spruce	Sawtimber Well	4.5	82	81-110	N/A	OPIC - FMD: Small creek within the stand. Low, wet ground. Regeneration is comprised of: b.fir, hemlock and red maple. 98=cedar & b.fir soil=Finch-Spot Complex & Dawson, Greenwood & Loxley Peats Hab.type=PARVAa Nice Black spruce stand, tall trees with other species sparsely mixed in, dense stand.																															
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91	42200 - Natural White Pine	Sawtimber Well	0.7	107	51-80	N/A	OPIC - FMD: Narrow stand on a steep slope around the edge of a bog. 99=red maple, beech and yellow birch soil=Dawson, Greenwood & Loxley Peats  Small ridge surrounded by lowland bog/wet area, mostly White pine.																																																								
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93	6122 - Black Spruce	Poletimber Medium	5.8	92	81-110	N/A	OPIC - FMD: Low, wet ground between bog and higher ground with hardwoods. Soil=Finch-Spot Complex Hab.type=PARVAa  Lowland spruce stand bordering bog. Even aged stand.																																																								
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94	42350 - Upland Hemlock	Sawtimber Well	5.5	122	141-170	N/A	OPIC - FMD: Ridge with hardwoods, surrounded by low wet ground. Difficult access across private. Soil=Garlic Sand Hab.type=ATFD  Mixed stand with conifer and deciduous trees. Very large, old trees near the edge of the lowland, diverse stand with lots of thermal cover.																																																								
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95	6127 - Lowland Pine	Poletimber Well	2.2	84	81-110	N/A	OPIC - FMD: Ridge with a mix of conifers and poor quality hardwoods. Access is across private land. Dense b.fir, b.spruce & hemlock regeneration. 98=b.spruce & b.fir soil=Garlic Sand & Finch-Spot Complex  Poor quality lowland conifer mix. Access impossible/worthless.																																																								
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96	6225 - Bog	None	1.0			No	Small corner of larger bog in adjacent property.																																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>97</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	2.3	66	51-80	N/A	OPIC - FMD: Small stand from private property line to conifers around a bog. Access through private. Soil=Garlic Sand hab type=ATFD																																					
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<b>98</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	1.9	101	141-170	N/A	OPIC - FMD: A small stand between a pond and private property; consisting of a few large diameter hemlock and white pine with mixed conifer poles near the pond, switching to hardwood poles on higher ground near the private line. Soil=Garlic Sand & Finch-Spot Complex Hab.type=PARVAa																																					
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<b>99</b>	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	2.1	78	81-110	N/A	OPIC - FMD: Low, wet ground. Soil=Finch-Spot Complex																																					
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<b>100</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.8	92	81-110	N/A	OPIC - FMD: Next to Ross Lake Campground, adjacent to Ross Lake and along the Ross Lake Rd. Thinned by D.O.C. in 2000. Ancillary data is available. 99=b.cherry, beech, y.birch Soil=Garlic Sand Hab.type=ATFD																																					
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<b>101</b>	42350 - Upland Hemlock	Sawtimber Well	2.9	106	111-140	N/A	OPIC - FMD: Ridge of hemlock, surrounded by low, wet ground. Difficult access across private land. Soil=Garlic Sand & Finch-Spot Complex Hemlock dominated stand with good regeneration, with other species prevalent on stands edges.																																					
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<b>102</b>	500 - Water	None	1.2			No	small pond within a bog.																																					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
103	6224 - Treed Bog	None	1.2			No	<p>Cut heavily in 1989-1991. This stand contains areas of planted Oak (east of s.56), and planted White Pine (SW part of stand). [6/4/08 jb] Went into the oak stand to look for the planted oak to show new wildlife tech. The oak are about 25-30' tall and 3"DBH. Most of the trees are found within old skid trails. When the area is ready to be harvested again consideration to this regeneration is important. May want to consider using an inmate crew to assure no damage is done to the small oak.</p> <p>10/21/15: Mix of species, lots of poles that will move up size classes within the next 10 years. "This stand was flagged with high or very high potential for spruce budworm impact but the decision at Compartment Review was not to harvest the stand at this time." Monsters INC Maple MWR units 1,2. TS: 41-006-17-01</p>

104	122 - Road/Parking Lot	None	0.7			No	Co Rd 450
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105	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	101	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	85	Log/Pole	14	101	Beech	Full	>20 feet	>20 feet
Beech	5	Pole	6					
Balsam Fir	10	Pole	8					

106	122 - Road/Parking Lot	None	3.6			No	Co Rd 450
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107	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	3.5	76	141-170	N/A	<p>OPIC - FMD: Narrow stand of conifers, around a small bog, on a small hill (and flat at bottom) sloping down from the hardwoods to the bog. Soil=Finch-Spot Complex Hab.type=PArVAa</p> <p>Small mixed conifer stand surrounding a small bog. Mostly Hemlock and white pine.</p>
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	8		Beech	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	10	Pole/Sapling	6		Hemlock	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	10	Pole/Sapling	6					
White Pine	20	Log	12					

108	122 - Road/Parking Lot	None	7.3			No	Wolf Lake Truck trail.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>109</b>	429 - Mixed Upland Conifers	Sawtimber Well	2.5	96	111-140	N/A	OPIC - FMD: Next to Canoe Lake. Slightly higher ground than the surrounding stands. 98=b.spruce & w.pine Soil=Finch-Spot Complex Hab.Type=PARVAa																																									
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<b>110</b>	429 - Mixed Upland Conifers	Sawtimber Well	5.7	71	111-140	N/A	OPIC - FMD: At the intersection of Co Rd 450 & the Ross Lake Rd. Small stand on a hill sloping away from the road, with a low, wet area at the bottom. Soil=Finch-Spot Complex																																									
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<b>111</b>	122 - Road/Parking Lot	None	0.8			No	Co Road 450																																									
<b>112</b>	500 - Water	None	37.4			No	Canoe lake.																																									
<b>113</b>	6225 - Bog	None	0.6			No	OPIC - FMD: Small creek within the stand. Low, wet ground. Regeneration is comprised of: b.fir, hemlock and red maple. 98=cedar & b.fir soil=Finch-Spot Complex & Dawson, Greenwood & Loxley Peats Hab.type=PARVAa																																									
							Nice Black spruce stand, tall trees with other species sparsely mixed in, dense stand.																																									