

# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42067

Entry Year: 2027

Acreage: 1,709

County: Chippewa

Management Area: Grand Marais Moraine Complex

---

**Stand Examiner:** Anthony Ciaramitaro

### Legal Description:

T50N R06W Sections 21-23, 27, 28, 33 & 34

### Identified Planning Goals:

To maintain and enhance forest health and diversity while incorporating recreational, wildlife, fire, and any additional special concerns.

### Soil and topography:

The majority of the compartment is gently rolling to rolling terrain on Deer Park fine sands. The southern portion, from Andrus Lake south, varies from Kinross-AuGres complex to Croswell-AuGres complex to Markey-Kinross-AuGres complex, with some Deer Park fine sand also. Areas of old low beach ridges to high ridges and escarpments within the compartment.

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

Areas immediately adjacent to the east in sections 27 and 34 have been subdivided and developed. Encroachment and illegal activity could easily be present. The Lake Superior shoreline continues to be developed for cabins. Areas to the south and west are in private ownership ranging from 10-80 acres in size, primarily following the Betsy River. The interior private 40 has been subdivided but not developed. State lands abut to the north and northwest.

Illegal ORV trails are cropping up, mainly leading from Andrus Lake Campground and adjacent landowners, to county and forest roads.

### Unique Natural Features:

Threatened and endangered flora have been identified in the area, and the potential exists for other threatened and endangered flora and fauna.

### Archeological, Historical, and Cultural Features:

Several archeology sites have been identified in the area. Old maps indicate the current Andrus Lake State Forest Campground was the site of the Box Car (logging) Camp. "Very large" native american archeological site has been flagged but not located. However private parcels are being heavily developed and subdivided.

### Special Management Designations or Considerations:

2025 was an extreme snow year for much of the area. Spring field work has identified an issue pertaining to young trees. Most saplings that are aprox. 3 foot tall have lost many branches due to snow load. Taller seedlings survived. All pine spp. exhibited damage from snow. A Wooded Dune and Swale Complex, extending down from the northern reaches along Lake Superior, has been identified in the northeast corner.

### Watershed and Fisheries Considerations:

Fisheries Concerns: Andrus Lake and the Betsy River are located within this compartment. This section of the Betsy River does receive a very light run of spring Steelhead and fall Salmon. Andrus Lake is managed as a Largemouth Bass and Panfish fishery, and with the campground located on Andrus Lake anglers can easily access this fishery. Any treatments proposed near the lake and river should maintain a minimum of a 100 foot, plus 5 feet per 1% increase in slope, riparian management zone (RMZ) in accordance with BMP's.

### Wildlife Habitat Considerations:

Compartment 67 lies in northern Chippewa County along Lake Superior and is in the Grand Marais Moraine Complex Management Area. This compartment is largely jack and red pine with some marshes and greater conifer diversity in the southern portion surrounding Andrus Lake. The majority of the compartment consists of wildlife purchased lands. In pine dominated ecosystems, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and red and white pine in harvests will provide food sources, nest and den trees, and improve stand diversity. Wildlife species potentially using this compartment include white-tailed deer, spruce grouse, ruffed grouse, black bear, gray wolves, coyotes and fox. Featured species include Blackburnian warbler, black throated blue warbler, American marten, Kirtland's warbler, red crossbill, spruce grouse, ruffed grouse and white-tailed deer.

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

Surface sediments consist of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness (~>50 feet). The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. There may be an old gravel pit located in the NW¼ of Section 27, and there may be some additional potential in the compartment. There is no economic oil and gas production in the UP.

**Vehicle Access:**

Vermillion Road (a county road) bisects the compartment. It was just recently reconstructed with a gravel lift. Interior roads are mainly poor sandy two-tracks. Many also serve as the snowmobile trail in the winter months.

**Survey Needs:**

Surveys are needed for timber treatments in section 23 and 34. Assistance may be required against platted subdivisions. Subdivisions continuing and survey lines may need to be painted and staked in.

**Recreational Facilities and Opportunities:**

Andrus Lake State Forest Campground and snowmobile trail #452 are within the compartment.

**Fire Protection:**

This compartment is in the Whitefish Zone Dispatch Area. Generally continuous jack pine fuel type could allow fires to grow large and rapidly, which may put surrounding private properties at risk. Response times to fires in this area are long and may be a factor in fire size.

**Additional Compartment Information:**

Small acreage has been sold on the east side of Whitefish Point Road due to trespass issues. Blue line has been put in place where necessary to diture private encroachment. Which is very close in many locations around the whole compartment but focused on the eastern side.

**The following reports from the Inventory are attached:**

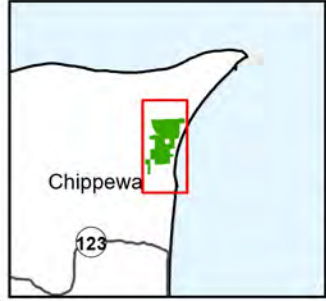
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

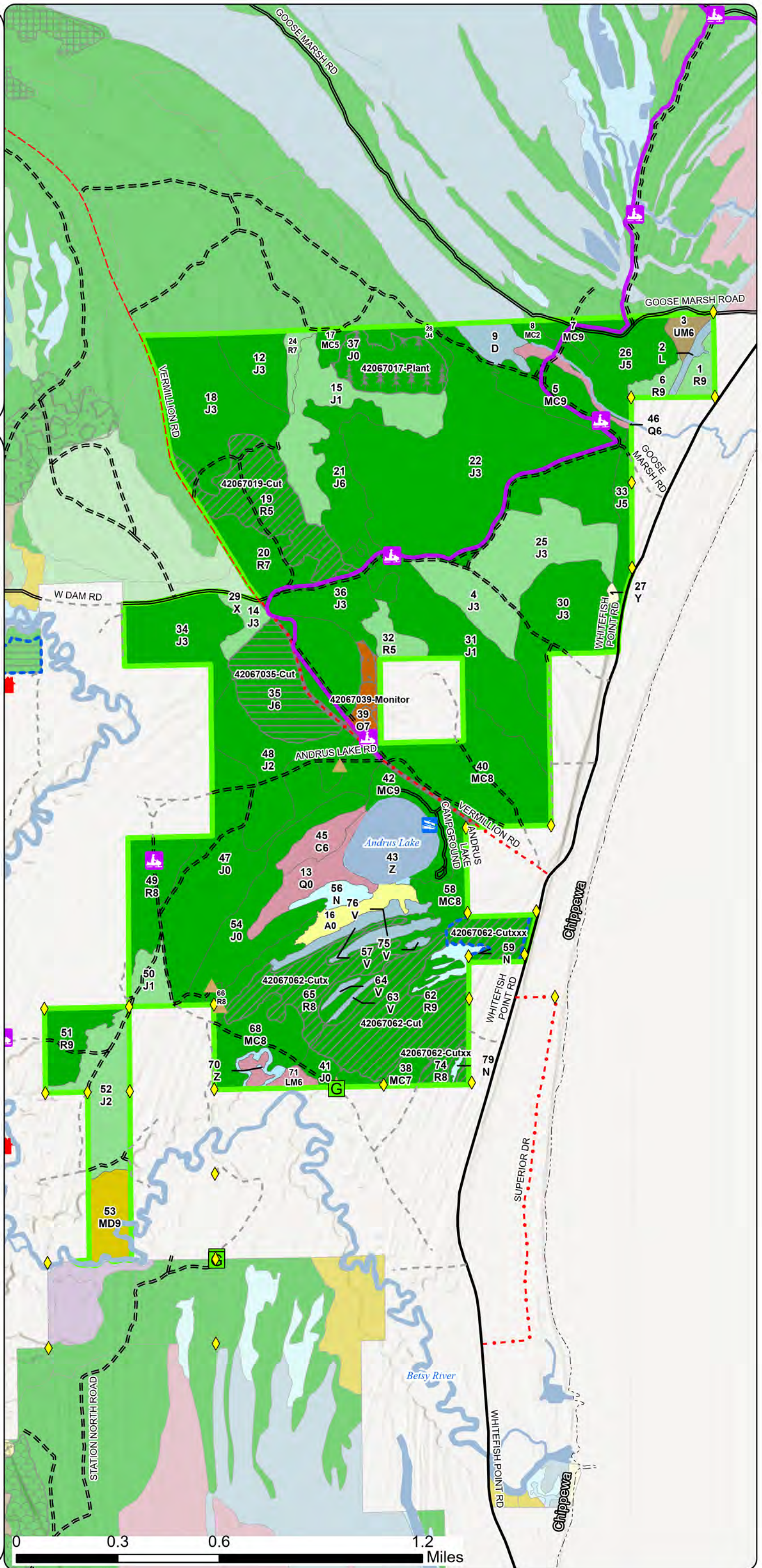
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

### Cover Type & Treatments Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review

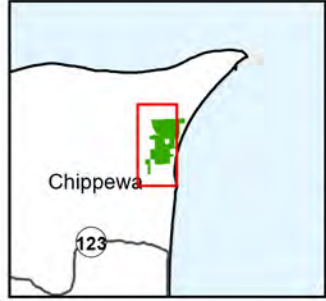


- Survey Grade Corners
- Cabin
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Thinning
- Planting (tree species)
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

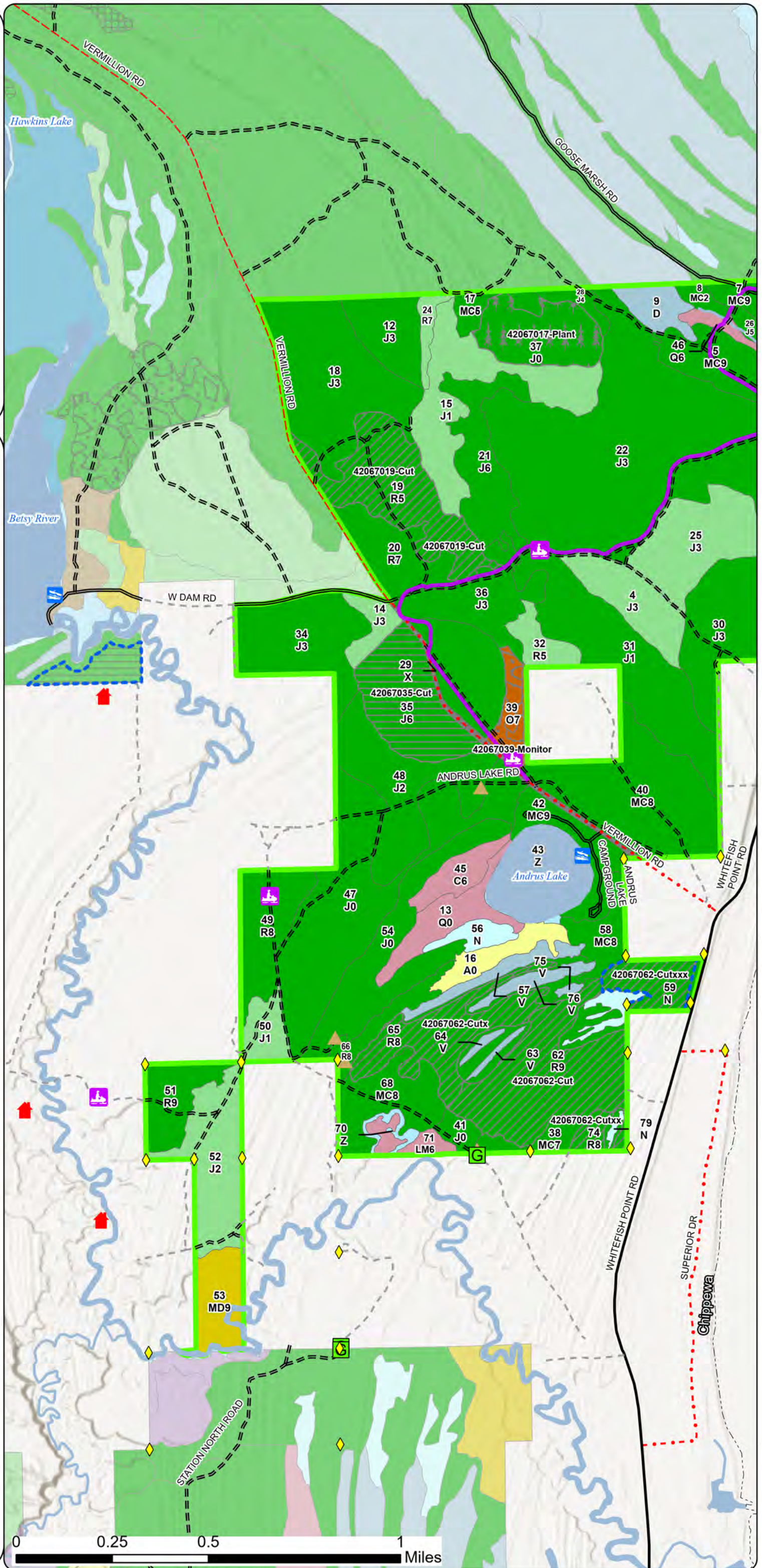


### Cover Type & Treatments Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOY: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review



- Survey Grade Corners
- Cabin
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Thinning
- Planting (tree species)
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland

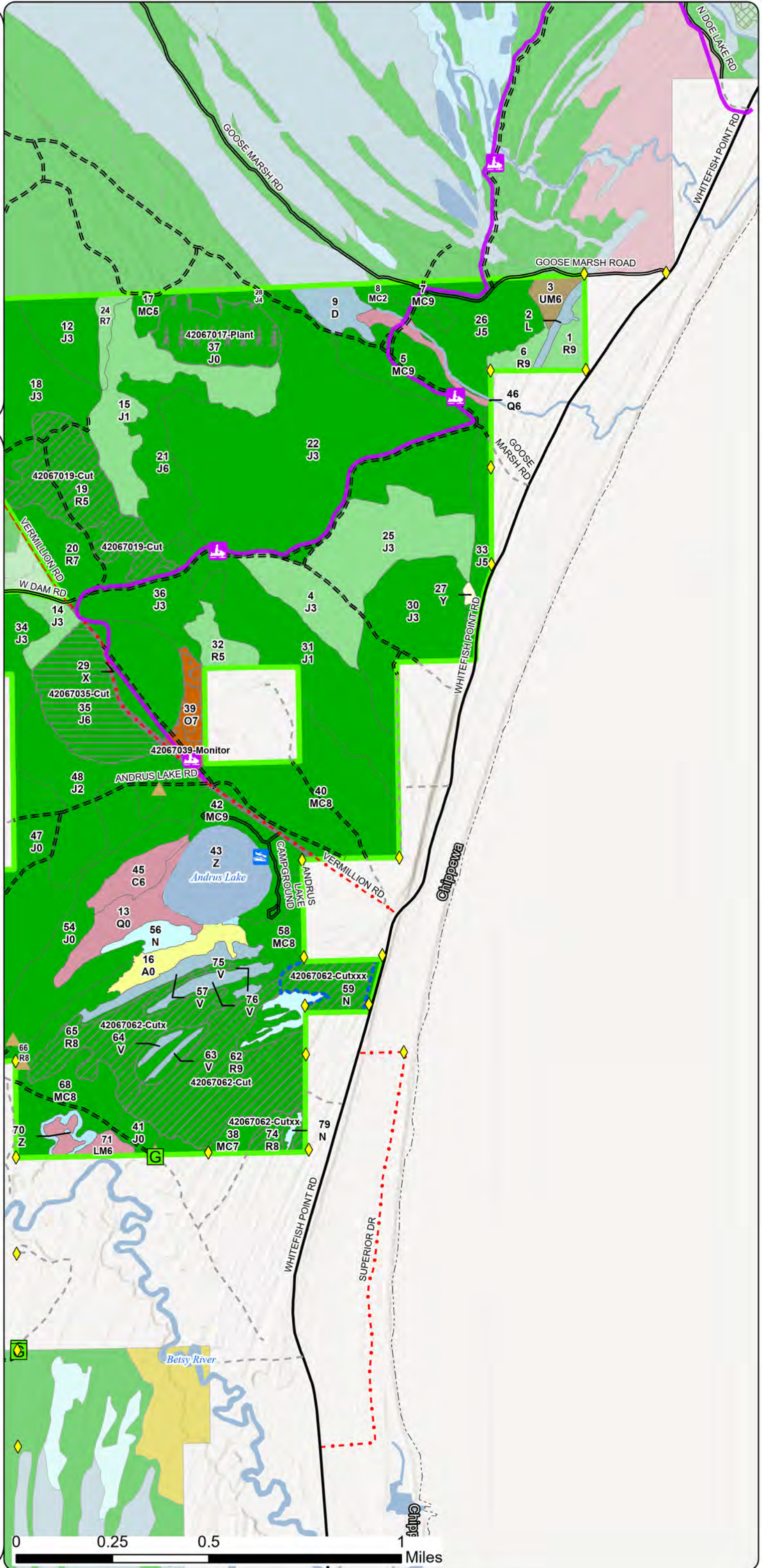


### Cover Type & Treatments Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review



- Survey Grade Corners
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Thinning
- Planting (tree species)
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

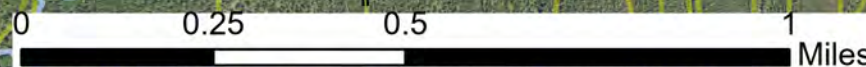
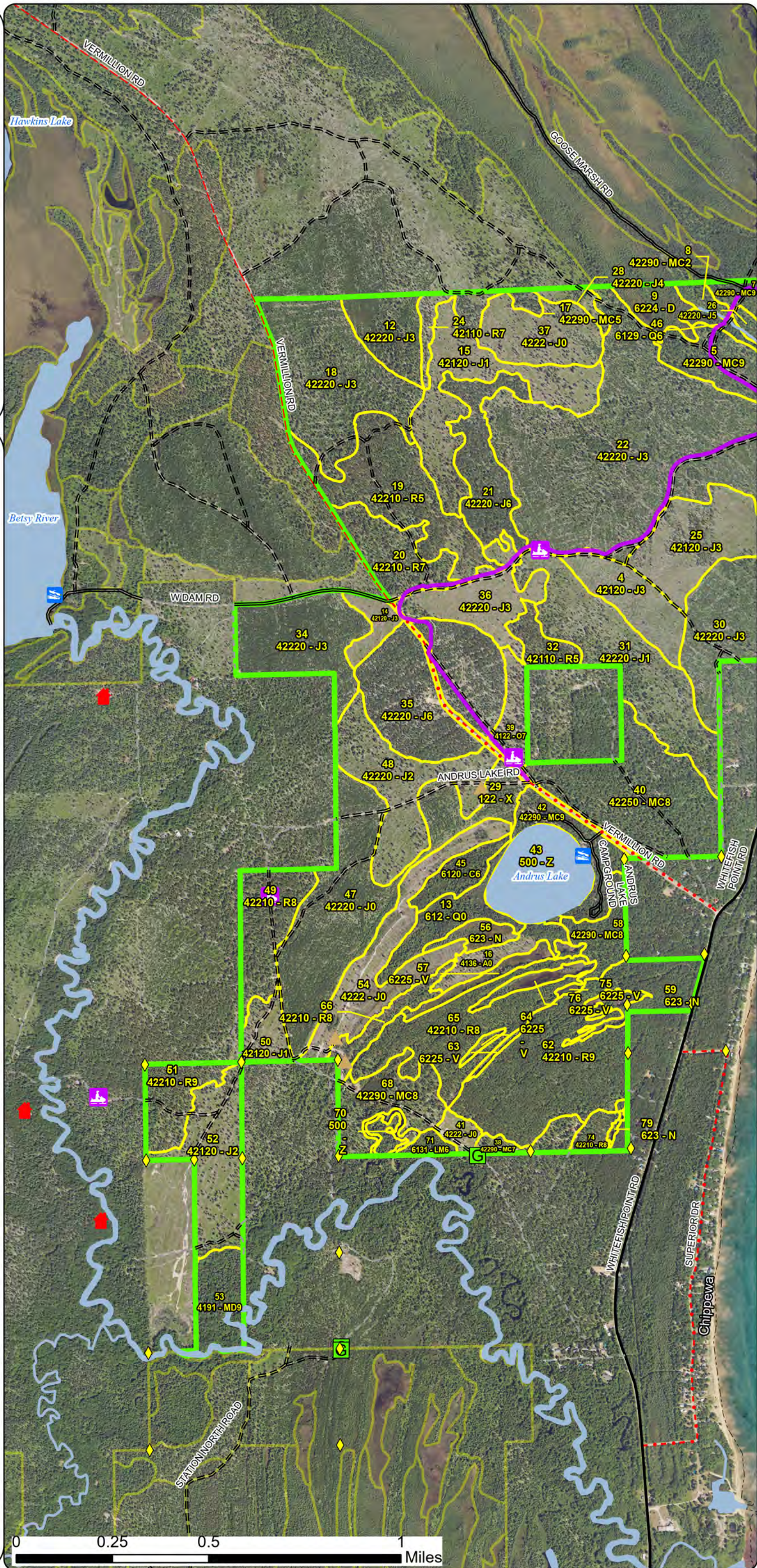


# Stand Boundary Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review



- Survey Grade Corners
- Cabin
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Outline
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland

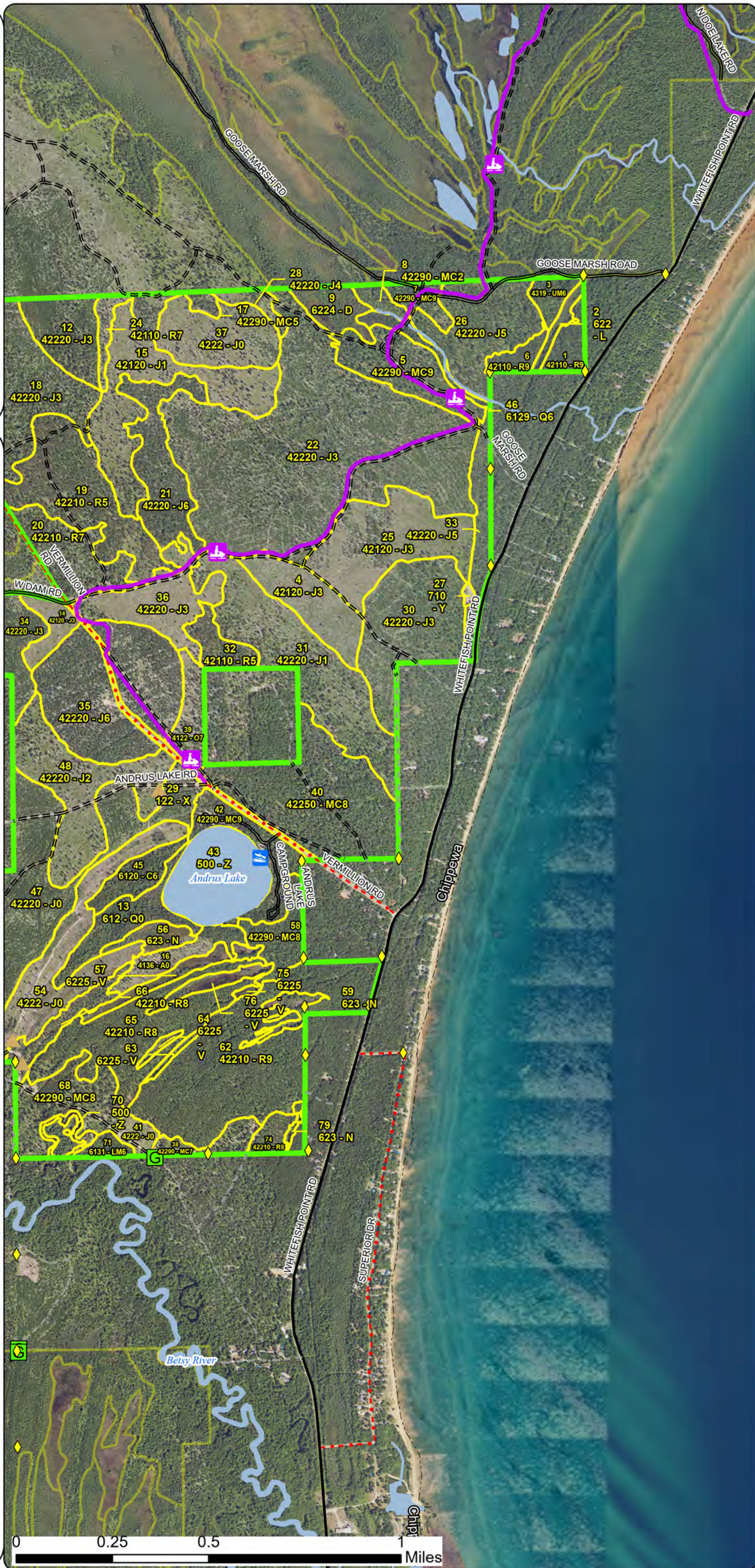


# Stand Boundary Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOY: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review

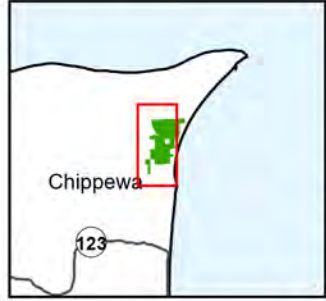


- Survey Grade Corners
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Outline
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

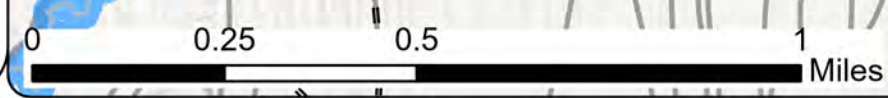
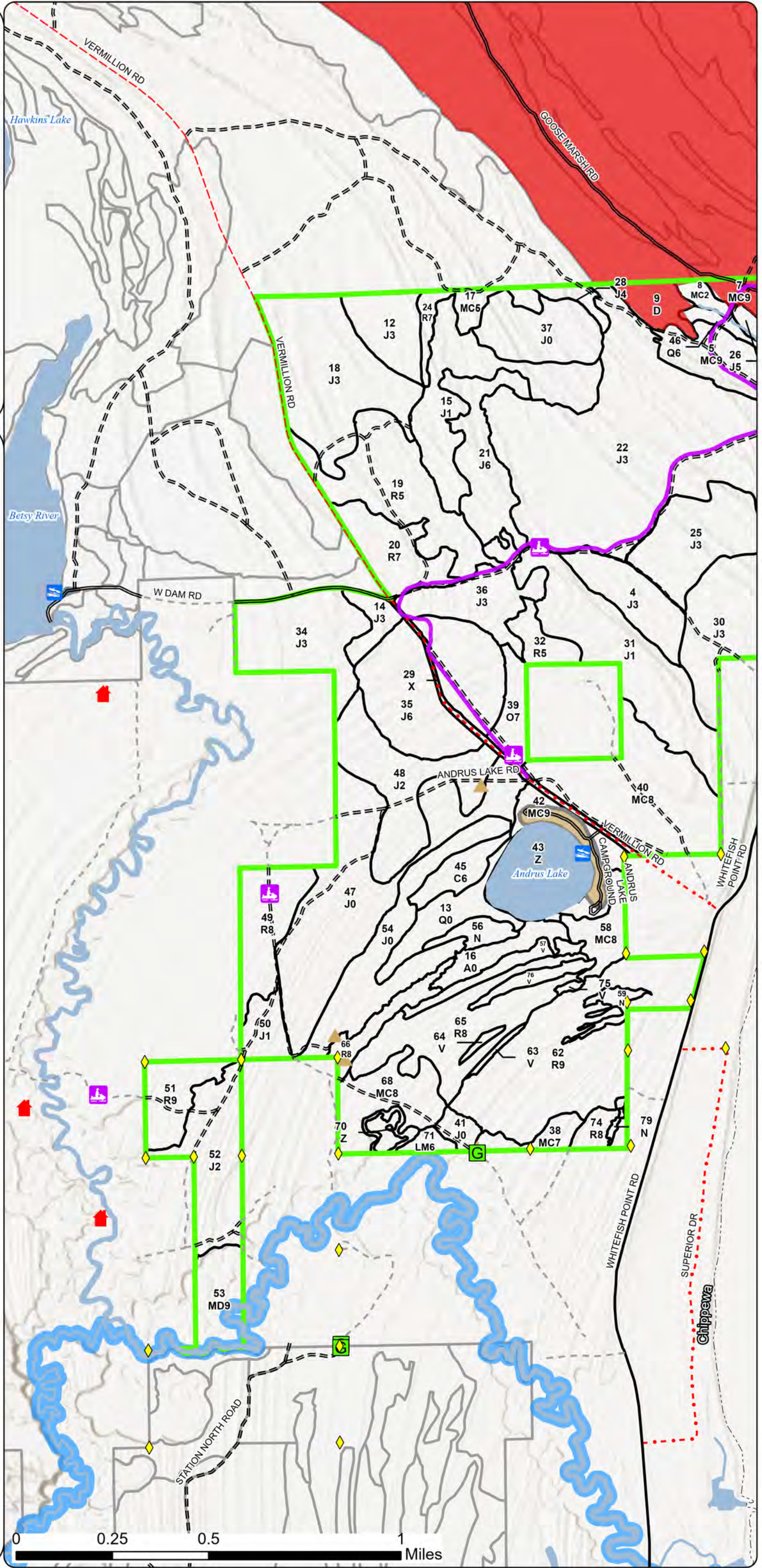


### Special Conservation Areas & Site Conditions Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review



- Survey Grade Corners
- Cabin
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- High Conservation Value Areas**
- Ecological Reference Areas
- Special Conservation Areas**
- Existing SCA
- Cold Water Lakes and Streams**
- Cold Water Streams
- Springs, Wetlands, and Riparian Areas**
- High Priority Trout Stream Buffer
- Concentrated Recreation Areas**
- Boat Access Site
- State Forest Campground

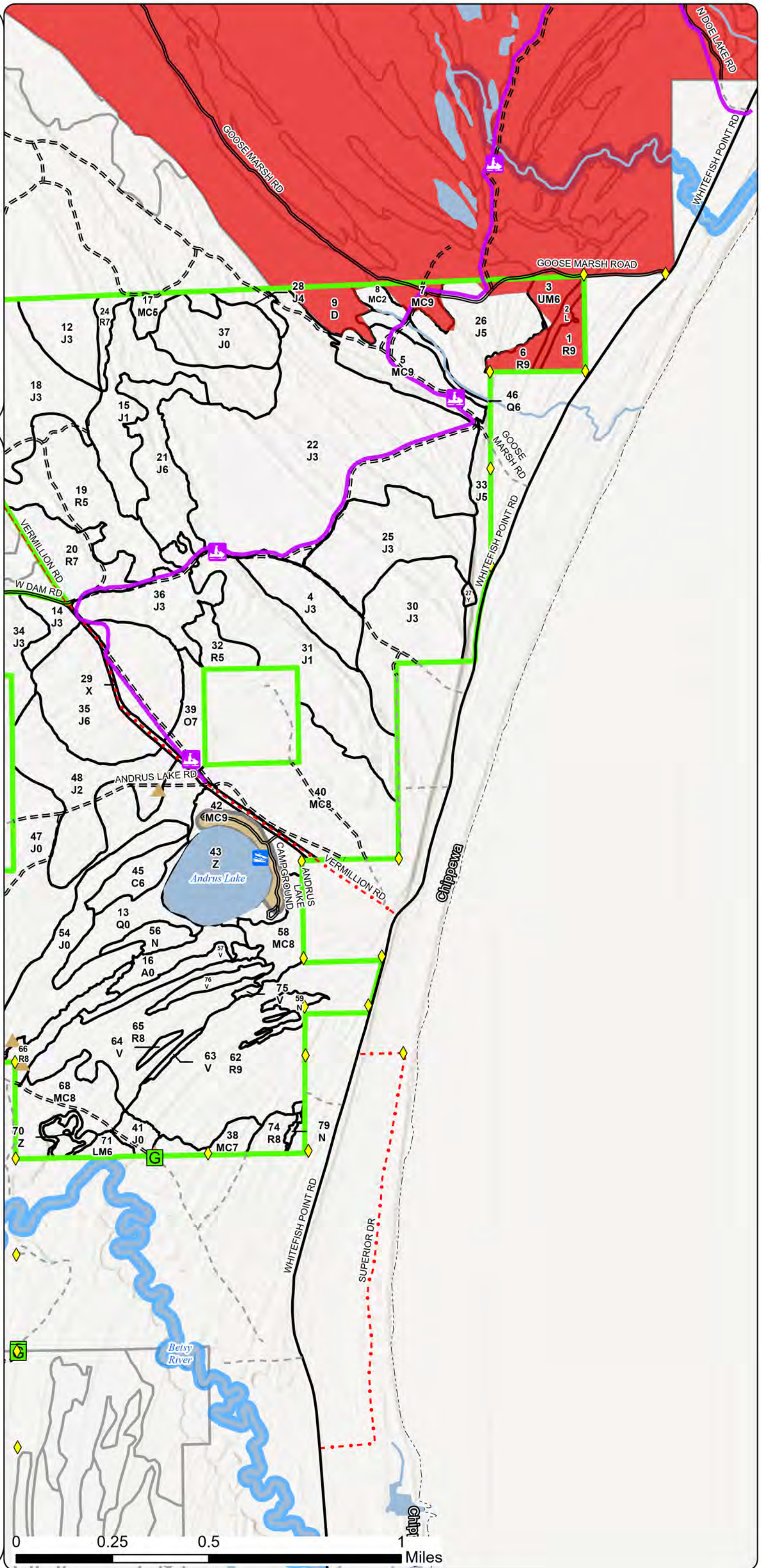


### Special Conservation Areas & Site Conditions Map

Compartment: 42067  
 T50N R06W Sec. 21-23, 27,28,33,34  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,708.65 GIS Calculated  
 Examiner: Anthony Ciaramitaro  
 Date Exported: 02/23/2026  
 Map Phase: Post Review



- Survey Grade Corners
- Boating Access Site
- Berm
- Gate
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- High Conservation Value Areas**
- Ecological Reference Areas
- Special Conservation Areas**
- Existing SCA
- Cold Water Lakes and Streams**
- Cold Water Streams
- Springs, Wetlands, and Riparian Areas**
- High Priority Trout Stream Buffer
- Concentrated Recreation Areas**
- State Forest Campground



# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 67    Year of Entry 2027

Anthony Ciaramitaro: Examiner

## Age Class

	<i>Non-Forest</i>	<i>0-9</i>	<i>10-19</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60-69</i>	<i>70-79</i>	<i>80-89</i>	<i>90-99</i>	<i>100-109</i>	<i>110-119</i>	<i>120-129</i>	<i>130-139</i>	<i>140-149</i>	<i>150+</i>	<i>Unseen-Aged</i>	<i>Total</i>
Aspen	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Jack Pine	169	161	161	365	43	0	37	70	17	0	0	0	0	0	0	0	0	0	1023
Lowland Conifers	19	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	25
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	0	0	13	0	8	0	0	155	8	0	0	0	0	0	0	0	184
Oak	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	0	0	0	5	108	140	60	0	0	0	0	0	0	313
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Treed Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	6
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
<b>Total</b>	<b>295</b>	<b>161</b>	<b>161</b>	<b>365</b>	<b>56</b>	<b>0</b>	<b>45</b>	<b>70</b>	<b>22</b>	<b>282</b>	<b>162</b>	<b>81</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1711</b>

## Report 2 – Treatment Summary

Newberry Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 67  
Total Compartment Acres: 1,709

Commercial Harvest - 747  
Harvests with Site Condition - 16  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversyory Removal	Salvage	Other	Total Acres
Jack Pine	41	0	0	0	0	0	0	0	0	41
Red Pine	0	0	0	0	0	173	0	0	0	173
<b>Total</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>173</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>214</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	214	0	30	0	0	0	11	0	0	255
Next Step	0	197	193	0	64	0	182	0	0	636
<b>Total</b>	<b>214</b>	<b>197</b>	<b>223</b>	<b>0</b>	<b>64</b>	<b>0</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>891</b>

S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

**Proposed Treatments:**

<b>17</b>	<b>42067017-Plant</b>	30.0	42290 - Natural Mixed Pine	5	58	51-80	Planting	Planting (tree species)	429 - Mixed Upland Conifers	Planting Record	No
<p><u>Prescription</u> 2023 wildfire burned the planted jack pine. Trenches in good shape and available for replanting. initial plant of jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen; Planting, Trenched Supplemental Plant; Monitoring, Artificial Regen</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Jack pine and mixed R/W pine</p> <p><u>Other Comment:</u> approved at review to move directly to an initial plant. RX removed from stand 17, planting unneeded.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>19</b>	<b>42067019-Cut</b>	51.6	42210 - Natural Red Pine	5	88	111-140	Harvest	Thinning	4221 - Natural Red Pine	Cutting Record	No
<p><u>Prescription</u> Thin from above targeting the older age class of red pine for removal. Remove trees where regeneration and intermediate age classes would benefit most. Target BA will vary. Remove merchantable jack pine. Clear cut some areas to create gaps and leave othe</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Areas too thick to jack pine may be "lined-out" in sale prep. Keep scarification in mind during sale prep.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>35</b>	<b>42067035-Cut</b>	40.7	42220 - Natural Jack Pine	6	61	Unspecified	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<p><u>Prescription</u> Clearcut with patch retention. Place retention near road or applicable spot to facilitate scarification.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Trenched Plant; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen; Planting, Trenched Supplemental Plant; Plan</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> jack pine, with oak birch or other pioneer spp.</p> <p><u>Other Comment:</u> Rx split along the road during compartment review due to age classes.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>62</b>	<b>42067062-Cut</b>	64.2	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<p><u>Prescription</u> Natural pine cut. create several, several acre clearcut gaps and thin the matrix to an average BA of 79-90 removing trees that did not respond to last thinning. Buffer the vernal pools for retention / no cutting zones. Likely mark to cut. May place retent</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red and white pine</p> <p><u>Other Comment:</u> Avoid the fingers. buffer the highway. Put RMZ buffers around the various water holes, even if its dry, they get deep in spring. Don't truck or deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking path. John</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>62 42067062-Cutx</b>	36.5	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Natural pine cut. Create several, 1-3 acre clear gut gaps and thin the matrix to an average BA of 70-90 removing trees that did not respond to last thinning. Buffer the vernal pools for retention / no cutting zones. Likely mark to cut. May place retention										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> red and white pine										
<u>Regen:</u>										
<u>Other</u> Avoid the fingers, use for retention guidance. Put RMZ buffers around the various water holes, even if its dry, they get deep in spring. Don't										
<u>Comment:</u> truck or deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking pa										
<u>Site Condition:</u>										
Proposed Start Date: 10/01/2026										
<b>62 42067062-Cutxx</b>	4.8	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Natural pine cut. create one or two acre clear gut gaps and thin the matrix to an average BA of 70-90 removing trees that did not respond to last thinning. Buffer the vernal pools for retention / no cutting zones. Likely mark to cut. (variable density th										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> red and white pine										
<u>Regen:</u>										
<u>Other</u> Put RMZ buffers around the various water holes, even if its dry, they get deep in spring. Don't truck or deck on the grade going north to the										
<u>Comment:</u> lake, lots of folks walk this trail cut less around the walking path. John did the survey for the sw corner may n										
<u>Site Condition:</u>										
Proposed Start Date: 10/01/2026										
<b>62 42067062-Cutxxx</b>	16.2	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> THIS SIDE OF RR GRADE IS WINTER CUT ONLY (SEE "LOCKED COMMENTS") Natural pine cut. create several, several acre clearcut										
<u>Specs:</u> gaps and thin the matrix to an average BA of 70-90 removing trees that did not respond to last thinning. Buffer the vernal pools for										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> red and white pine										
<u>Regen:</u>										
<u>Other</u> Avoid the fingers. buffer the highway. Put RMZ buffers around the various water holes, even if its dry, they get deep in spring. Don't truck or										
<u>Comment:</u> deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking path. John										
<u>Site Condition:</u> Age-Class or Site Quality										
Proposed Start Date: 10/01/2026										

**Approved Treatments:**

<b>39 42067039-Monitor</b>	10.6	4122 - Oak, Pine	7	81	1-50	Monitoring	Monitoring - Regeneration	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Monitor for natural Jack Pine regen in the north. If oak regen is good then flat plant with extra seedlings.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u> Jack pine, red pine, white pine, oak										
<u>Regen:</u>										
<u>Other</u> Percent to Treat = 100%										
<u>Comment:</u>										
<u>Site Condition:</u>										
Proposed Start Date: 10/01/2025										

S  
t  
a  
n  
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

---

Total Treatment Acreage Proposed: 254.6

## Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 67

Anthony Ciaramitaro: Examiner

Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				2B	2E	5C	2F	2G	3A	3D	3J	5D	5E	
4	0	0		4	Aspen								2			2
20	20	0		0	Bog											
12	0	0		12	Cedar					12						
993	975	0		19	Jack Pine				17							2
25	0	0		25	Lowland Conifers					12			8	5		
8	0	0		8	Lowland Mixed Forest								8			
4	4	0		0	Lowland Shrub											
12	7	0		6	Marsh										6	
21	0	0		21	Mixed Upland Deciduous								21			
141	122	0		19	Natural Mixed Pines							14	2			2
12	12	0		0	Oak											
211	159	30		21	Red Pine	8	6	16								21
1	1	0		0	Sand, Soil											
12	12	0		0	Treed Bog											
6	0	0		7	Upland Mixed Forest						7					
7	7	0		0	Urban											
36	36	0		0	Water											
1,524	1,354	30		139	Total Forested Acres	8	6	16	17	23	7	14	41	10	27	
	89%	2%		9%	Relative Percent											

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	21	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Contains many old river oxbows. Steep banks in places. Evaluated for SBW.							
2	Unavailable	5E: Long-Term Retention	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> reshape based on Rx lines							

## Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro: Examiner

Compartment: 67

Year of Entry: 2027

3	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Low ground alongside old river oxbows.							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	17	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>2E: Road needed</b>	6	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	8	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wooded Dune and Swale Complex ERA							

## Report 4 – Site Conditions

Newberry Mgt. Unit

Anthony Ciaramitaro: Examiner

Compartment: 67

Year of Entry: 2027

10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention pocket for stand 16. Buffers low areas along Andrus Lake and other wetlands.							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>3D: Recreational/scenic values</b>	15	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Andrus Lake Campground.							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
 Anthony Ciaramitaro: Examiner

Compartment: 67  
 Year of Entry: 2027

21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	3D: Recreational/scenic values	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>5D: Unproductive forest land</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**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>Andrus Lake Campground</b>	Concentrated Recreational Area	State Forest Campground	<b>SCA</b>	9
<b>Comments</b>				
beach, picnic area, boat launch, vaults				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	42110 - Planted Red Pine	Sawtimber Well	8.3	88	111-140	N/A	Most of stand planted in F 1938 (red pine and jack pine, with 3-0 stock). Questionable as to access for harvest, with marsh type bordering to the west and private lands, with no existing roads present, to the east. The stand type does change within this stand, also, with the north end being more paper birch, large aspen, maple, softwoods and some cedar and moving towards planted red and jack pine area with old WP stumps scattered throughout. 2025: Pine is still holding up, dense and un-thinned. Access is still an issue. Would consider clear cutting and leaving for natural regen once the adjacent stands are harvested. Would need to be very dry or winter.																																																								
2	622 - Lowland Shrub	None	4.1			No	Tag alder with some small cedar, spruce, paper birch, and snags within and along edges. Could drive over when filled with snow. Filled with water in spring and dries out.																																																								
3	4319 - Mixed Upland Forest	Poletimber Well	6.5	88	81-110	N/A	2025: Thick balsam regeneration in between patches of larger timber, such as they are. Variable stand; contains many fingers of low, wet ground which will create difficult harvesting without impacting site condition. Some of this stand is from plantings in the fall of 1938. Manage for mixed diversity. No roads in stand.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>30</td> <td>Pole</td> <td>8</td> <td>88</td> </tr> <tr> <td>Paper Birch</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>13</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log</td> <td>14</td> <td>88</td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Pole	8	88	Paper Birch	20	Pole	8		Black Spruce	20	Pole	8		Northern White Cedar	2	Pole	8		White Pine	13	Log	14		Red Pine	10	Log	14	88	Jack Pine	5	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Full</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>5 - 10 feet</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Full	Variable	Variable	Red Maple	Medium	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Black Spruce	Medium	Variable	Variable
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Maple	30	Pole	8	88																																																											
Paper Birch	20	Pole	8																																																												
Black Spruce	20	Pole	8																																																												
Northern White Cedar	2	Pole	8																																																												
White Pine	13	Log	14																																																												
Red Pine	10	Log	14	88																																																											
Jack Pine	5	Pole	8																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Balsam Fir	Full	Variable	Variable																																																												
Red Maple	Medium	Variable	Variable																																																												
Tag Alder	Low	5 - 10 feet	5 - 10 feet																																																												
Black Spruce	Medium	Variable	Variable																																																												
4	42120 - Planted Jack Pine	Sapling Well	24.5	8		N/A	NOTE: Stand was split from stand 25 directly to the North and has had the same "next step" treatments. However, they did not carry over. This stand was scarified in Stand is now a jack pine stand with heights of about 3 to 6 ft. it's moderately stocked and it has residual red pine plantation throughout. Majority of stand was scarified and came back to natural JP though some rows exist where furrows were present. Stand split for portion to the south that contains the residual portion on the canopy of red pine. Regen Check 10/16/2019: Jack Pine 700 TPA; JP/RP Volunteers: 350 TPA. Passed. Regen Check 11/9/2021: Jack Pine 829 TPA. Jack Pine Regeneration is at 437 TPA. Residual Basal Area Ranges 10-30. Completed 6/8/18. Poorly stocked jack pine. Stand harvested as "Subdivision Jack Pine", sale #42-013-07-01. Complete 12/07/09. Scarified 2010 by Holli. Summer 2012: JP = 95 WP = 32 TPA= 127. Red and white pine left for diversity. Most of this pine was originally planted in the fall, 1938 with 3-0 R,J.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>1</td> <td>Log</td> <td>16</td> <td>81</td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Log</td> <td>16</td> <td>81</td> </tr> <tr> <td>Jack Pine</td> <td>98</td> <td>Sapling</td> <td>3</td> <td>8</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	1	Log	16	81	Red Pine	1	Log	16	81	Jack Pine	98	Sapling	3	8																																										
Canopy Species	% Cover	Size Class	DBH	Age																																																											
White Pine	1	Log	16	81																																																											
Red Pine	1	Log	16	81																																																											
Jack Pine	98	Sapling	3	8																																																											

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
5	42290 - Natural Mixed Pine	Sawtimber Well	26.8	86	51-80	N/A	2025: Growing well, pretty standard for the area. Mixed natural pine residuals with young jack coming up. Several roads in stand with an old RR grade and some side by side trail damage (road widening and cut off into the woods). Leads to a fording over the marsh which gets wet in spring. Enough residual canopy closure to be 50/50 jack to red & white. stand WILL BEE natural jack. JACK PINE IS 33 YEARS OLD in 2025. Scattered residual red pine and white pine. Patch of RP/WP/JP inclusion in NW corner (on a partial side slope and wet along road). "South Goose Marsh" sale # 35-89-1 harvested Su, 1990. FTP 42-273: scarification completed 6/91. Some residual R,W,O present. Regeneration count in 1998 = 657 t/ac (mixed spp).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	50	Log/Pole/Sap	12		Jack Pine	Full		5 - 10 feet	5 - 10 feet
Red Pine	50	Log	12	86					
6	42110 - Planted Red Pine	Sawtimber Well	5.8	88	111-140	N/A	Most of stand planted in F 1938 (red pine and jack pine, with 3-0 stock). Questionable as to access for harvest, with marsh type bordering to the west and private lands, with no existing roads present, to the east. The stand type does change within this stand, also, with the north end being more paper birch, large aspen, maple, softwoods and some cedar and moving towards planted red and jack pine area with old WP stumps scattered throughout. 2025: Pine is still holding up, dense and un-thinned. Access is still an issue. Would consider clear cutting and leaving for natural regen once the adjacent stands are harvested. Would need to be very dry or winter.		
7	42290 - Natural Mixed Pine	Sawtimber Well	7.5	91	81-110	N/A	Stand harvested via Low Thinning: Vermillion Pine - 42-001-18. Jack pine dead and dying. Snowmobile trail runs through the stand. Ridge of timber. Oak was left. mostly red pine with scattered white and now jack pine coming back.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	20	Log/Pole	10		Red Oak	Medium		< 5 feet	< 5 feet
White Pine	35	Log	12		Paper Birch	Low	Variable	Variable	
Red Pine	45	Log	11	91					
8	42290 - Natural Mixed Pine	Sapling Medium	4.4	34	Immature	N/A	Jack pine 20'-30' tall. Sparse on east end and thicker towards west. "South Goose Marsh" sale #35-89-1. Area was cut Su, 1990, although contract notes that scattered timber was left standing. FTP 42-273: scarification completed 6/91. Regeneration counts done in 1996, and 1998 - '98 count was 657 t/ac. Some red maple and paper birch clumps. Jack is coming back.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	10	Sapling	2						
Red Oak	5	Pole	8						
Black Spruce	15	Sapling	3						
White Pine	2	Sapling	3						
Red Pine	13	Log	12						
Jack Pine	55	Sapling	3	34					
9	6224 - Treed Bog	None	11.5			No	Stand does contain ridge of slightly higher ground (small finger of JP, S harvested in 1990 cut). Portions have high water table. Whole area is under water in spring and flows SE.		
12	42220 - Natural Jack Pine	Sapling Well	21.3	25	Immature	N/A	Stand was part of the Big Flake Sale #005-97-01 (units 1,2) which was completed in 1999. FTP #42-456: scarification completed 6/00. Regeneration check was completed in 5/2003 with stocking of 629 t/ac. Jack pine 10'-20' tall. Getting to pole SC. Scattered red and white pine residuals scattered throughout the stand.		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	8	Log	10						
Red Pine	17	Log	12						
Jack Pine	75	Sapling/Pole	4	25					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
13	612 - Lowland Coniferous Forest	Unspecified	18.6	5	Unspecified		Stand harvested in 2020 via Clearcut with Retention: Andrus Lake Pine #42-002-18. Some open areas within stand. Some nicely stocked areas. Quite a bit of blowdown timber in places. Closer to lake, spruce is smaller in diameter; wetter. Patchy timber.																				
14	42120 - Planted Jack Pine	Sapling Well	8.9	6	1-50	N/A	Some areas east of Vermillion Road with low regeneration (mostly advanced reproduction before cut). Few jack pine seedlings. Occasional oak. Part of stand was planted Sp, 1938 with 3 - 0 RP and 2 - 0 JP. Stand harvested as "Tower Circle Pine", sale #016-07-01. Red pine left for diversity and seed source. Completed 8/22/08. Scarification completed August, 2008 (FTP42-696). Regeneration check in summer 2012: WP = 55 RP = 27 TPA = 82. Harvested via Vermillion Pine • 42-001-18 complete winter 2019/2020 and TCR complete 8/23/2020. Clearcut left 1 red or white pine per acre. Trenching complete summer 2020. Spray and planting following year on POW. 09/30/2020: planting treatment moved from 2022 to 2021 based on seedling surplus. Site prep spray treatment for 2021 removed. Site planted in spring of 2021 with 800 TPA of Jack pine to 866 TPA stocking; regen check in fall of 2021. Regen survey fall of 2021 (contractor): Jack Pine 842 TPA. JP doing well despite the snow load this year, 2025. some branch damage and broken tops. Stand now types out as a JP canopy with heights around 4 feet and fully stocked densities. Treated along with stand 36.																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>1</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>1</td> <td>Log/Pole</td> <td>16</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>98</td> <td>Sapling</td> <td>3</td> <td>6</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	1	Log	16		Red Pine	1	Log/Pole	16		Jack Pine	98	Sapling	3	6
Canopy Species	% Cover	Size Class	DBH	Age																							
White Pine	1	Log	16																								
Red Pine	1	Log/Pole	16																								
Jack Pine	98	Sapling	3	6																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> </tbody> </table>							Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	9											
Canopy Species	% Cover	Size Class	DBH	Age																							
Jack Pine	100	Sapling	1	9																							
15	42120 - Planted Jack Pine	Sapling Poor	49.5	9	Immature	N/A	Stand harvested as "Dead Battery Jack Pine", sale #014-07-01. Complete 12/07/09. Scarified 2010 by Holli. Regeneration check in 2014: JP=280 WP=46 RP=31 TPA=357 Failed scarification.  Trenched in 2016. Planted JP in trenches 5/5/2017. FTP 42-688. A few areas of natural regeneration not trenched (inclusions). Records indicate there were 1st and 3ed year regen checks completed but there were no notes entered in the treatments or the stand comments so stocking was unknown. Center burned in 2023 Vermillion fire reshaped stand around it, creating a new stand with fire origin Regen across the whole stand is very good, planted jack pine are reaching 6-10 feet, fully stocked. It also appears that some jack pine seeded in naturally between the trenches. 2023 vermillion fire burned off 40 acres of the original planting and a new stand was made. Residual R/W pine overtopping.																				
16	4136 - Aspen, Mixed Conifer	Unspecified	12.6	5	Unspecified		2025: Extreme snow and rain season. Whole stand under several feet of water, in spots. Regeneration was adequate but poor. Whips and coppice regen OK with lots of spruce and a few mixed pine. Seasonally dry and seasonally flooded. Stand harvested in 2020 via Clearcut with Retention: Andrus Lake Pine #42-002-18. Stand scarified in summer of 2021 by contractor.																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>17</b>	42290 - Natural Mixed Pine	Poletimber Medium	8.1	58	51-80	N/A	Patches of younger timber left when Dead Battery Sale was put up in 2007.2023 Vermillion Fire burned through plantation to the south. All immature trees torched leaving nothing. Mature trees were heavily scalded and are showing mortality already. Possible beetle infestation in coming years. Planning to leave stand alone and see if it seeds in naturally, remaining trees may produce more seed due to stress. Not a lot of volume to remove for a salvage sale. Eastern edge remained un-burned.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	45	Pole	8	58			
Red Pine	45	Pole	8	58			
Jack Pine	10	Pole	8	58			
<b>18</b>	42220 - Natural Jack Pine	Sapling Well	67.3	25	Immature	N/A	Jack pine 10'-20' tall. Stand was part of the Big Flake Sale #005-97-01 (units 1,2) which was completed in 1999. FTP #42-456: scarification completed 6/00. Regeneration check was completed in 5/2003 with stocking of 629 t/ac. Regeneration is now 10 to 20 ft, with a few JP entering pole SC. Scattered red and white pine residual trees throughout the interior. Natural stand with variation, some pockets are very thick and other s are empty.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	8	Log	10				
Red Pine	17	Log	12				
Jack Pine	75	Sapling	1	25			
<b>19</b>	42210 - Natural Red Pine	Poletimber Medium	51.6	88	111-140	N/A	Varying dbh. Open areas have jack pine regeneration from cut/scarification. Stand was part of the Big Flake Sale #005-97-01. Sale completed in 1999 (although this stand was primarily unit 3, which was cut in 5/98). Jack pine only was removed, and a fairly thick residual of red pine remains, which is enough to identify as its own stand. FTP #42-456: scarification accomplished, although not much was treated here due to heavy stocking.9/15/2020: Stand thinned via Crown thinning on Vermillion Pine • 42-001-18. All jack pine harvested with red and white pine cut trees marked. Age should be re-taken next YOЕ. Mostly solid red pine. Diameters vary from 6 to 16 in. Some of which are growing in dense clusters. Some inclusions in the stand are J3 pockets that would need to be seperated in a harvest.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	10	Pole	8				
Red Pine	90	Pole/Log	9	88			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Jack Pine	Low	10 - 20 feet	10 - 20 feet				
Red Maple	Medium	10 - 20 feet	10 - 20 feet				
<b>20</b>	42210 - Natural Red Pine	Sawtimber Poor	25.7	88	1-50	N/A	"Big Flake" sale #005-97. FTP #42-456; scarification completed 7/99. Stocking survey completed 5/15/2003 - 629 trees per acre. Stand has higher residual RP BA than stand to north (18), which was part of the same sale.Patchy leftover red pine some areas of non-merchantable regeneration that was not thinned, other areas have 18 in trees. Very thick jack pine regeneration in spots with no red pine. May be large enough to be own stand but hard to tell. Need to take some core but is most likely a plantation.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	5	Log	12				
Red Pine	95	Log/Pole	12	88			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
White Pine	Low	10 - 20 feet	10 - 20 feet				
Jack Pine	Full	10 - 20 feet	10 - 20 feet				
Red Pine	Low	10 - 20 feet	10 - 20 feet				
<b>21</b>	42220 - Natural Jack Pine	Poletimber Well	32.3	58	Unspecified	N/A	Records show that northern half of stand may have some remnants of F-1938 planting of red pine and jack pine.Solid jackpine growing well mostly 40 ft
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	5	Log/Pole	12				
Red Pine	10	Log	14				
Jack Pine	85	Pole/Sapling	6	58			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>22</b>	42220 - Natural Jack Pine	Sapling Well	187.8	25	Immature	N/A	Timber Sale #24-97-01, "Bird Point Jack Pine". Cutting completed Fall, 1999. FTP # 42-487: scarification completed 6/00; 161.2 acres. Regeneration count completed 5/2007 = 841 t/ac (808 J, 16 R, 17 W). Residual pine in scattered patches. Jack pine now 10'-20' tall. Nice regeneration. Included middle portion of another stand: Scattered residual red pine and white pine. Patch of RP/WP/JP inclusion in NW corner (on a partial side slope and wet along road). "South Goose Marsh" sale # 35-89-1 harvested Su, 1990. FTP 42-273: scarification completed 6/91. Some residual R,W,O present. Regeneration count in 1998 = 657 t/ac (mixed spp).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	1	Log	10				
Red Pine	24	Log	12				
Jack Pine	75	Sapling	1	25			
<b>24</b>	42110 - Planted Red Pine	Sawtimber Poor	5.4	72	1-50	N/A	Stand harvested as "Dead Battery Jack Pine", sale #014-07-01. Complete 12/07/09. Scarified 2010 by Holli. Regeneration check in 2014: JP=280 WP=46 RP=31 TPA=357 Failed scarification.  This section contains the remnants of a red pine plantation. Likely 70ish years old and 12ish inches in average diameter and 40-50 feet tall. Only a 5.4 ac sliver.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine	95	Log	12	72			
Jack Pine	5	Pole	5	9			
<b>25</b>	42120 - Planted Jack Pine	Sapling Well	47.6	8		N/A	Stand is now a j2-3 stand with heights of about 3 to 6 ft. it's moderately stocked and it has residual red pine plantation throughout.  Regen Check 10/16/2019: Jack Pine 700 TPA; JP/RP Volunteers: 350 TPA. Passed. Regen Check 11/9/2021: Jack Pine 829 TPA. Planting crew completion report data: Stocking = Planted 500 trees/ac. 1127 trees/ac plot data, 1012 trees/ac linear data. 6/9/19 Jack Pine Regeneration is at 437 TPA. Residual Basal Area Ranges 10-30. Completed 6/8/18. Failed scarification. Trenched in 2016. FTP 42-691. Planted to JP in trenches 5/5/2017. Areas of natural regeneration and/or too high of RP residual were not trenched. May delineate during next inventory. Poorly stocked jack pine. Stand harvested as "Subdivision Jack Pine", sale #42-013-07-01. Complete 12/07/09. Scarified 2010 by Holli. Summer 2012: JP = 95 WP = 32 TPA= 127. Red and white pine left for diversity. Most of this pine was originally planted in the fall, 1938 with 3-0 R,J.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine	5	Log	16	81			
Red Pine	5	Log	16	81			
Jack Pine	90	Sapling	3	8			
<b>26</b>	42220 - Natural Jack Pine	Poletimber Medium	38.0	25		N/A	"Hidden Corner" sale #048-97-01. Cut March, 2000. FTP #42-492; scarification completed in 6/00 - 38.4 acres. Patches of red pine pole/log left within cut, as well as isolated trees. Majority of red pine left is on the east half and was planted in F-1938. Regeneration check = 753 t/ac (685 t/ac J. 34W, 17R, 17B) completed May, 2002. Some residual red pine may be cut with adjacent red pine stands. Norther portion harvested in 2019 via Low Thinning; Vermillion Pine: 42-001-18. Small stand left as snowmobile trail buffer. Some oak, paper birch present, which can be left for diversity when stand is harvested. Original planting of stand with 3-0 JR in the fall, 1938. Stand is 24 year old jack with residual r/w pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine	100	Sapling/Pole	4	25			
<b>27</b>	710 - Sand, Soil	None	1.0			No	It's a sand pit. Nice and warm to lay in on a sunny day. Runs along Wire Road. Stumps/brush was placed to stop ORV traffic, as well as grass plugs planted with ORV funds.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																						
<b>28</b>	42220 - Natural Jack Pine	Poletimber Poor	5.1	58	Unspecified	N/A	Patches of younger timber left when Dead Battery Sale was put up in 2007. Stand harvested as "Dead Battery Jack Pine", sale #014-07-01. Complete 12/07/09. Scarified 2010 by Holli. Regeneration check in 2014: JP=280 WP=46 RP=31 TPA=357 Failed scarification.  Trenched in 2016. Planted JP in trenches 5/5/2017. FTP 42-688. A few areas of natural regeneration not trenched (inclusions). Records indicate there were 1st and 3ed year regen checks completed but there were no notes entered in the treatments or the stand comments so stocking was unknown. 2023 Vermillion Fire burned through plantation. This area was unburned and contains remnants from the plantation that have the same origin as the one to the SW of the fire. Varying density of residual mixed r/w pine.																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>95</td> <td>Pole</td> <td>8</td> <td>58</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2	Pole	8		Red Pine	3	Pole	8		Jack Pine	95	Pole	8	58								
Canopy Species	% Cover	Size Class	DBH	Age																									
White Pine	2	Pole	8																										
Red Pine	3	Pole	8																										
Jack Pine	95	Pole	8	58																									
<b>29</b>	122 - Road/Parking Lot	None	7.1			No	Vermillion Road																						
<b>30</b>	42220 - Natural Jack Pine	Sapling Well	50.2	25	Immature	N/A	Young jack pine coming in well. Mixed R/W pine residual seet tree cut with some scattered oak. "Sand Pit Jack Pine" sale #034-97-01 - cut late summer/early fall, 1999. FTP # 42-489: scarification completed 6/00 - 50.8 acres. Some residual oak, red and white pine within. Regeneration count completed 5/2007 = 840 t/ac (794 J, 31 R, 16 W).																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>25</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log	11		Red Pine	10	Log	11		Jack Pine	85	Sapling	1	25								
Canopy Species	% Cover	Size Class	DBH	Age																									
White Pine	5	Log	11																										
Red Pine	10	Log	11																										
Jack Pine	85	Sapling	1	25																									
<b>31</b>	42220 - Natural Jack Pine	Sapling Poor	62.0	17	Immature	N/A	2025 6 to 10 ft j3. Stand split from portion from the north (but south of the road) which was scarified. This stand was scarified and came back natural JP. SW portion has significant RP residual and may constitute an overstory in the furthest south portion. Regen Check 10/16/2019: Jack Pine 700 TPA; JP/RP Volunteers: 350 TPA. Passed. Regen Check 11/9/2021: Jack Pine 829 TPA. Planting crew completion report data: Stocking = Planted 500 trees/ac. 1127 trees/ac plot data, 1012 trees/ac linear data. 6/9/19 Jack Pine  Regeneration is at 437 TPA. Residual Basal Area Ranges 10-30. Completed 6/8/18. Failed scarification. "Subdivision Jack Pine", sale #42-013-07-01. Complete 12/07/09. Scarified 2010 by Holli.  Summer 2012: JP = 95 WP = 32 TPA= 127. Red and white pine left for diversity. Most of this pine was originally planted in the fall, 1938 with 3-0 R,J. Stand is now a jackpine stand with heights of about 3 to 6 ft. it's moderately stocked and it has residual red pine plantation throughout. Jack pine regeneration is patchy. JP-6-10 feet tall. Residual red pine and white pine. "Subdivision Jack Pine" sale #13-07 - Units 2,3 cut August, 2007 and scarified August, 2008 (FTP 42-691). Regeneration check in summer 2012: JP = 674 WP = 84 RP= 10 TPA= 768																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>70</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Pole	8		Red Pine	25	Log/Pole	10		Jack Pine	70	Sapling	1	17								
Canopy Species	% Cover	Size Class	DBH	Age																									
White Pine	5	Pole	8																										
Red Pine	25	Log/Pole	10																										
Jack Pine	70	Sapling	1	17																									
<b>32</b>	42110 - Planted Red Pine	Poletimber Medium	10.3	88	51-80	N/A	Stand originally planted with 3 - 0 R,J in Fall, 1938. Stand harvested via shelterwood/seed tree treatment as "Tower Circle Pine", sale #016-07-01. Completed 8/22/08. Scarification not done on this portion. Regeneration check needed in summer 2012: WP = 55 RP = 27 TPA = 82 Much denser RP than surrounding stand, may have been one stand in the past... Would consider thinning stand next entry along with stand 36 to the north.																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>6</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>94</td> <td>Log/Pole</td> <td>10</td> <td>88</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	6	Log/Pole	10		Red Pine	94	Log/Pole	10	88	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>10 - 20 feet</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	10 - 20 feet			
Canopy Species	% Cover	Size Class	DBH	Age																									
White Pine	6	Log/Pole	10																										
Red Pine	94	Log/Pole	10	88																									
Sub-Canopy Species	Density	Avg. Height	Size																										
Red Maple	Low	10 - 20 feet	10 - 20 feet																										

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>33</b>	42220 - Natural Jack Pine	Poletimber Medium	16.6	71		N/A	2025: Stand was accidentally deleted when a merge happened. New survey work has added 2 acres in a long strip on the eastern compartment line. Splitting and merging the stand deleted the stand data. The stand has not been harvested and lies on a steep ridge sloping into the compartment. it's a mix of natural pines in a sandy Croswell-Au Gres sand, 0 to 3 percent slopes leaning heavily to jack pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		10	Log	15			
Red Pine		20	Log	15			
Jack Pine		70	Pole	8	71		
<b>34</b>	42220 - Natural Jack Pine	Sapling Well	43.4	33	Immature	N/A	Jackpine clearcut in '89 leave all oak. "Shell Drake Flooding" sale #36-89 - cut Fall, 1991. Some oak residual present. FTP 42-286: scarification completed 8/92, with regen check in 7/95 showing 30% stocking (351 t/ac). Jack pine now 20 - 30' tall. Has filled in naturally with even more regeneration.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		2	Pole	8			
Jack Pine		98	Sapling	4	33		
<b>35</b>	42220 - Natural Jack Pine	Poletimber Well	69.8	61	Unspecified	N/A	Variable density natural jack pine. Site of old FAA radar tower; lease agreement L-3143 signed 7/1/59 and cancelled on 6/30/69. Slowly seeding in. Open sandy areas plus footprint from tower. Illegal ORV trail (motor bike) Jackpine is now ~30 foot tall mostly poles.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		1	Pole	8			
Red Pine		1	Pole	8			
Jack Pine		98	Pole	8	61		
<b>36</b>	42220 - Natural Jack Pine	Sapling Well	30.0	6	1-50	N/A	Some areas east of Vermillion Road with low regeneration (mostly advanced regeneration before cut). Few jack pine seedlings. Occasional oak. Part of stand was planted Sp, 1938 with 3 - 0 RP and 2 - 0 JP. Stand harvested as "Tower Circle Pine", sale #016-07-01. Red pine left for diversity and seed source. Trenched and planted in 2021 among the residual red and white pine.  09/30/2020: planting treatment moved from 2022 to 2021 based on seedling surplus. Site prep spray treatment for 2021 removed. Site planted in spring of 2021 with 800 TPA of Jack pine to 866 TPA stocking; regen check in fall of 2021. Regen survey fall of 2021 (contractor): Jack Pine 842 TPA. JP doing well despite the snow load this year, 2025. some branch damage and broken tops. Stand now types out as a JP canopy with heights around 4 feet and fully stocked densities. Treated along with stand 36. RETENTION: Edge of the eastern stand left untrenched by the intersection. Leaving for aesthetics due to small size and location.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		1	Log	16			
Red Pine		1	Log	16			
Jack Pine		98	Sapling	3	6		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Red Oak		Low	Variable	Variable			
White Pine		Low	Variable	Variable			
Jack Pine		Low	Variable	Variable			
Red Maple		Low	10 - 20 feet	10 - 20 feet			
Red Pine		Trace	>20 feet	>20 feet			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
37	4222 - Natural Jack Pine	Unspecified	30.0	9			Stand harvested as "Dead Battery Jack Pine", sale #014-07-01. Complete 12/07/09. Scarified 2010 by Holli. Regeneration check in 2014: JP=280 WP=46 RP=31 TPA=357Failed scarification.  Trenched in 2016. Planted JP in trenches 5/5/2017. FTP 42-688. A few areas of natural regeneration not trenched (inclusions).Records indicate there were 1st and 3ed year regen checks completed but there were no notes entered in the treatments or the stand comments so stocking was unknown. 2023 Vermillion Fire burned through plantation. All inmature trees torched leaving nothing. Mature trees were heavily scalded and are showing mortality already. Possible beetle infestation in coming years. Planning to leave stand alone for 5 years and see if it seeds in naturally to the trenches, remaining trees may produce more seed due to stress. If natural regen fails, plant back to jack pine, hoping the trenches will remain intact.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Low	>20 feet	>20 feet	
								White Pine	Low	>20 feet	>20 feet	
								Jack Pine	High	< 5 feet	< 5 feet	
38	42290 - Natural Mixed Pine	Sawtimber Poor	8.6	31	81-110	N/A	Split stand follow harvest in the middle. Natural mixed pine with some plantation remnants. "Oxbow" Sale # 30-97-01. Harvested in Fall, 1999 - Spring, 2000. Some residual red and white pine. FTP # 42-488: scarification completed 6/00. Thick regen noted on NW side of road; other areas spotty. Regeneration check completed 5/2007 = 659 t/ac (381J, 76 R, 152 W, 51 RM). Eastern portion of stand has more RP logs standing. OK JP regeneration underneath, but may combine portions into adjacent RP stands when treated.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	50	Log	10	31
								Red Pine	20	Log	10	
								Jack Pine	30	Pole	6	31
Sub-Canopy Species	Density	Avg. Height	Size									
Jack Pine	Medium	5 - 10 feet	5 - 10 feet									
39	4122 - Oak, Pine	Sawtimber Poor	12.3	81	1-50	N/A	Stand scarified summer of 2021 by contractor. Regen appears to be favoring the oak and maple. Lots of oak seed/sap's near the road and some residual jack pine in the back of the stand. Directly abuts private camp. Pushing stand to overstory of residual mixed pine and oak. May return to jack pine if seedlings come back given more time, but unlikely given he deciduous competition.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	70	Log	15	81
								White Pine	15	Pole	5	41
								Red Pine	15	Pole	5	41
Sub-Canopy Species	Density	Avg. Height	Size									
Red Oak	Medium	5 - 10 feet	5 - 10 feet									
Jack Pine	Medium	< 5 feet	< 5 feet									
40	42250 - Pine, Oak	Sawtimber Medium	66.4	81	111-140	N/A	Varying sizes. JP dying out but very minimal. Patch timber - semi-open in areas to areas with lots of saplings. Good quantity of oak mixed in with white and red pine, although the oak is mostly small and low quality. Some dead jack pine and white pine with dead tops; weeviling also in the WP. Occasional PB within stand. Regen is good across the entire stand but is 90% white pine. Overstory could be thinned next entry to release regen. Added several trails that are being maintained by the private properties that surround the stand. No trespasses found. Looks like private surveys were done.Stand thinned as "Park Place Pine", sale #025-07-01. Complete 5/7/09. East half originally planted in 1938 with 3 - 0 R,J. Illegal ORV trails still exist after harvest although most are in new places.Regen 2014: White pine 685 TPA, red oak 1584 TPA.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	30	Pole	8	
								White Pine	30	Log/Pole/Sap	12	81
								Red Pine	30	Log/Pole	12	
Jack Pine	10	Pole/Log	9									
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	High	Variable	Variable									
Red Oak	High	Variable	Variable									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
41	4222 - Natural Jack Pine	Unspecified	5.3	6	Immature		Passes re-inventory check but stocking is still on the low end, mainly JP & WP. one or two residual pine here and there. "Oxbow" Sale # 30-97-01. Harvested in Fall, 1999 - Spring, 2000. Some residual red and white pine. FTP # 42-488: scarification completed 6/00. Thick regen noted on NW side of road; other areas spotty. Regeneration check completed 5/2007 = 659 t/ac (381J, 76 R, 152 W, 51 RM). Eastern portion of stand has more RP logs standing. OK JP regeneration underneath, but may combine portions into adjacent RP stands when treated. Cut in 2019 sale Andrus Lake Pine 42-002-18 RX clearcut and do not cut white pine. Regen looks good passes a check for natural jack but is patchy. Some areas of bare sugar sand. RX "slipped through the cracks" and was never advanced to next steps, or monitored or anything. Paper copy of sale record shows history.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Medium	5 - 10 feet	5 - 10 feet	
								White Pine	Trace	>20 feet	>20 feet	
								Jack Pine	Low	< 5 feet	< 5 feet	
Red Pine	Trace	>20 feet	>20 feet									
42	42290 - Natural Mixed Pine	Sawtimber Well	20.6	87	51-80	N/A	Lots of oak seedlings as well as natural red pine and white pine volunteers larger jackpine remain around the lake and in recreation areas. Heavily used by people in side by sides. Site planted with 675 TPA of red pine on 5/14/2022. 1st year regen showed 633 TPA of red pine with 2100 TPA red oak with white pine and birch also. 3rd year regeneration survey terminated based on stand conditions. Stand harvested via Low Thinning: Andrus Campground #42-004-18; All jack pine harvested along with Scotch pine alone Vermillion road. Andrus Lake S.F.C.G. Area formally the "Box Car Camp" (pre-1939) - logging camp. Portion planted 1938 with 3 - 0 R,J. Heavily used recreation site. Mixed species include oak, paper birch. Lots of oak seedlings ground cover.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	20	Log/Pole	10	
								Paper Birch	5	Pole	7	22
								White Pine	25	Log/Pole	10	
Red Pine	45	Log	10	87								
Jack Pine	5	Log/Pole	10									
43	500 - Water	None	32.9			No	Warner's Lake now called Andrus Lake. FTP F42-653: Trees dropped in lake for fish habitat 7/11/2006. Dock is in a sad state of affairs this year. The approach was underwater and the far side was leaning in. Otherwise a beautiful northern michigan water body.					
45	6120 - Lowland Cedar	Poletimber Well	11.7	111	Unspecified	N/A	Pine mostly along lake edge. Thicker pockets of cedar with open areas of misc. species. Some scattered spruce were removed in 1990 to construct fish shelters. Most of stand floods pretty deep in the spring and is wet year round with leather leaf, lab. tea and bog laurel.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	6	Pole	9	
								Black Spruce	30	Pole	8	
								Northern White Cedar	60	Pole/Log/Sap	8	111
White Pine	3	Log	14									
Red Pine	1	Log	14									
46	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.3	91		N/A	Low flowing drainage with a stone reenforced fording on the trail/road. contains mixed lowland species and some pine/spruce/cedar. Holding several feet of water in 2025.					
								Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	25	Pole	6									
Northern White Cedar	35	Pole	8	91								
White Pine	20	Log	15	91								
Red Pine	10	Log	15									
Jack Pine	10	Pole	5									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	42220 - Natural Jack Pine	Unspecified	89.0	22	Immature		"Andrus Lake" sale #37-89 - cut in 1990-91. Two FTP treatments: 42-274 (~ E. end of sale - 76 acs) scarification completed 7/91 with regeneration check 1994 (31% stocked) and 10/95 (66% stocked @ 2263 t/ac). 42-289 scarification completed 8/92 (SW end of sale) with regeneration count 10/95 and 6/98 (71% stocked @ 2375 t/ac). Nice jack pine regeneration. Patchy jackpine and thicker in some areas most stems are in pole size class or approaching pole size class. Minianial budworm damage. Remnant red pine from last cutting about 14 in dbh.
48	42220 - Natural Jack Pine	Sapling Medium	47.2	17	Immature	N/A	Fully stocked jack pine around 3' tall. Stand harvested as "Tower Circle Pine", sale #016-07-01. Completed 8/22/08. Scarification completed August, 2008 (FTP42-696). Regeneration check in summer 2012: RP = 274 JP = 514 TPA = 788. Stand growing well ,Jack pine now about 10 to 15 ft tall with volunteer red and white pine scattered throughout. residual red and white pine are log x log size class. No budworm damage
49	42210 - Natural Red Pine	Sawtimber Medium	28.9	96	51-80	N/A	Small pockets of thicker pine. Good regeneration throughout most of the stand. Not so much under the thick RP pockets. Some jack pine regeneration on very south end of stand. Jack pine was removed in 1991 under "Andrus Lake Sale" #37-89. Lots of small oak seedlings present. Under story is a carpet of regeneration from natural white pine with the occasional red pine and oak scattered throughout. There are some residual over story still present and red pine over story is quite thick. Some of the natural white pine regeneration is approaching 15 to 20 ft while others are still seedlings.
50	42120 - Planted Jack Pine	Sapling Poor	11.7	10	1-50	N/A	Regen Check: 10/29/2019 - Planted TPA is 666 TPA with approximately 75 TPA volunteers. Expect more volunteers to appear and slightly increase density of the stand with time. Passed.  06/12/18- Plantation TPA is 581, Residual Basal area ranges from 10-30. Stand harvested as "Survey Pine", sale #001-08-01. Complete 10/05/09. Scarification completed in 2010. Regeneration survey in 2014: JP=158 WP=52 TPA=210. The snowmobile trail runs through the stand. Failed scarification. Trenched in 2016. C42-708. Hand planted to JP in trenches 5/4/2017. Planted jackpine is now established saplings are over 3 ft tall some are still under 3 ft. residual white pine jack pine and red pine still present.
51	42210 - Natural Red Pine	Sawtimber Well	19.7	99	81-110	N/A	Snowmobile trail route runs through stand. On the south side of trail/road, there is a fairly steep intermittent wet area (old river oxbow?), which contains more spruce, white pine and paper birch. Land acquired 1985. Stand harvested as "Survey Pine", sale #001-08-01. Complete 10/05/09. Regen 2014: Jack pine 158 TPA, white pine 52 TPA. Must corner cross private land to access this portion of the compartment. Fully stocked with pine and oak. Denser towards the NW.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>52</b>	42120 - Planted Jack Pine	Sapling Medium	39.5	15	1-50	N/A	<p>Regen Check: 10/28/19 - Planted JP 650 TPA with approximately 75 TPA JP volunteers. More RP volunteers on south side of stand increasing TPA. Passed. Treatment sequence complete.06/12/18-Plantation TPA of 500, Residual basal area ranges from 10-30. Moderately stocked.Land acquired 1985. Stand harvested as "Survey Pine", sale #001-08-01. Complete 10/05/09. Scarification completed in 2010. Regeneration survey in 2014: JP+158 WP=52 TPA=210. Red and white pine residual = 9 BA.Failed scarification. Trenched in 2016. C42-708. Hand planted to JP in trenches 5/4/2017. Some inclusions (west finger and south end) of natural regeneration.Jackpine is approaching 10 ft tall stand is fully stocked. This site appears to be thicker than other stands that were also hand planted in 2017. High residual red and white pine from previous harvest. Several white pine volunteers in various sizes throughout the stand as well.Its a 2 aged stand with young jack at 75% of canopy and residual R/W pine overtop at 25%. Young red and white mixed in among the jack saplings.</p>																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Sapling/Pole</td> <td>4</td> <td>15</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	100	Sapling/Pole	4	15	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Medium</td> <td>&gt;20 feet</td> <td>&gt;20 feet</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>5 - 10 feet</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	>20 feet	>20 feet	White Pine	Medium	5 - 10 feet	5 - 10 feet																				
Canopy Species	% Cover	Size Class	DBH	Age																																												
Jack Pine	100	Sapling/Pole	4	15																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Pine	Medium	>20 feet	>20 feet																																													
White Pine	Medium	5 - 10 feet	5 - 10 feet																																													
<b>53</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.9	106	51-80	N/A	<p>Stand contains lower ground and intermittent drainage (old oxbows) - drops off sharply from adjacent J type. Southern end of stand contains more red maple (old and low quality) and paper birch clumps (dead and dying, in places). Slightly higher areas are heavier to conifers (large RP, WS, old aspen) with 10-15' tall F understory. Blowdown area of S/F found. PVT property line has been established and is visible along the east side of stand (fluorescent orange) running N/S. Habitat classification indicates PARVAa site - let climax association of red maple - white pine occur. Land acquired in 1985. Sites where older trees have died have filled in with very thick spruce and fur regeneration along with white pine large overstory red and white pine exist scattered throughout the stand</p>																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>35</td> <td>Log/Pole</td> <td>12</td> <td>106</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>30</td> <td>Log/Pole</td> <td>12</td> <td>106</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	25	Log/Pole	10		Paper Birch	35	Log/Pole	12	106	Bigtooth Aspen	5	Log	12		Balsam Fir	5	Pole	8		White Spruce	30	Log/Pole	12	106	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Full</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Full	Variable	Variable	Balsam Fir	Medium	Variable	Variable
Canopy Species	% Cover	Size Class	DBH	Age																																												
Red Maple	25	Log/Pole	10																																													
Paper Birch	35	Log/Pole	12	106																																												
Bigtooth Aspen	5	Log	12																																													
Balsam Fir	5	Pole	8																																													
White Spruce	30	Log/Pole	12	106																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Maple	Full	Variable	Variable																																													
Balsam Fir	Medium	Variable	Variable																																													
<b>54</b>	4222 - Natural Jack Pine	Unspecified	44.3	5	Unspecified		<p>2025: Extreme spring with rain and snowmelt. 90% of stand was under several feet of water. The eastern "finger" of the stand showed much better regeneration than the west, which was only a few scattered jack pine and poor spruce. Eastern side has lots of spruce coming up and some mixed R/W/J pine with better form. The western portion is looking poor in stocking and diversity. Everal equipment trenches throughout holding up to 3 feet of water. A few overstory residual pine were left. Residual trees are blowing down due to shallow water table. Stand harvested in 2020 via Clearcut with Retention: Andrus Lake Pine #42-002-18.Stand scarified in summer of 2021 by contractor. Previous notes: Slightly rolling terrain (receding beach) - lower areas heavier to spruce with gradual ridges more to jack pine, red pine. Jack pine dying out. Some spruce has already died and fallen over in the lower ground.</p>																																									
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>&lt; 5 feet</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>&lt; 5 feet</td> <td>&lt; 5 feet</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>&gt;20 feet</td> <td>&gt;20 feet</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine		Low	< 5 feet	< 5 feet	Black Spruce	Low	< 5 feet	< 5 feet	Red Pine	Low	>20 feet	>20 feet																														
Sub-Canopy Species	Density	Avg. Height	Size																																													
Jack Pine	Low	< 5 feet	< 5 feet																																													
Black Spruce	Low	< 5 feet	< 5 feet																																													
Red Pine	Low	>20 feet	>20 feet																																													
<b>56</b>	623 - Emergent Wetland	None	7.0			No	Some scattered timber. Deep water and bog species, typical for the area.																																									
<b>57</b>	6225 - Bog	None	9.5			No	Leatherleaf dune swale bog.																																									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
<b>58</b>	42290 - Natural Mixed Pine	Sawtimber Medium	14.3	87	81-110	N/A	Stand responding well to thinning, looking more natural and open in spots. VERY Large water holes on the old RR grade. Many people hike the trail from the campground. Stand harvested via Crown Thinning: Andrus Campground #42-004-18. Records indicate planting with 2-0 R,J in Sp, 1939; a good mix of species now. Intermittent wet area present along old N/S grade/trail. Small paper birch, oak throughout stand; fairly good quantity of oak seedlings ground cover.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>42</td> <td>Log/Pole</td> <td>12</td> <td>87</td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log</td> <td>10</td> <td>87</td> </tr> <tr> <td>Jack Pine</td> <td>1</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	15	Pole	8		Paper Birch	2	Pole	5		White Pine	42	Log/Pole	12	87	Red Pine	40	Log	10	87	Jack Pine	1	Pole	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>&lt; 5 feet</td> <td>&lt; 5 feet</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	< 5 feet	Red Oak	Medium	Variable	Variable	Red Maple	Low	Variable	Variable
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Oak	15	Pole	8																																															
Paper Birch	2	Pole	5																																															
White Pine	42	Log/Pole	12	87																																														
Red Pine	40	Log	10	87																																														
Jack Pine	1	Pole	8																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
White Pine	Low	< 5 feet	< 5 feet																																															
Red Oak	Medium	Variable	Variable																																															
Red Maple	Low	Variable	Variable																																															
<b>59</b>	623 - Emergent Wetland	None	5.6			No	Stand varies from water to slight upland with regeneration (RM, WB, RO, JP, WP, RP). Road is built up across the stand.																																											
<b>62</b>	42210 - Natural Red Pine	Sawtimber Well	91.3	96	111-140	N/A	"Paradise Pine" sale #039-97 - thinned Fall, 2000. Small road buffer was left of unthinned timber; some old yellow paint still visible. Regeneration is filling in along old roads used for harvest, none noted within the stand. Subtle old beach ridges. Very open understory. Occasional oak. 2025: Stand is still very open underneath. Recommending a crown thinning along with NP guidance and scarification or burning to get natural regen, none or very few were noted. Stand is different across the old RR grade to the NW, more deciduous and white pine. Overall the stand is showing decline, live crown ratios are low and there is noticeably less foliage. There's also a few 100% mortality pockets throughout the stand that about a half acre in size. RX: Avoid the fingers. buffer the highway. Put RMZ buffers around the various water holes, even if its dry, they get deep in spring. Don't truck or deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking path. John did the survey for the sw corner may need on in the NW. Private corner in place with paint and flagging. Good volume in the area though. Old logging roads and loops are still in good condition.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>36</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>62</td> <td>Log</td> <td>12</td> <td>96</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	2	Pole	8		White Pine	36	Log/Pole	10		Red Pine	62	Log	12	96	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>White Spruce</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	White Pine	Low	Variable	Variable	Red Oak	Low	Variable	Variable	White Spruce	Low	Variable	Variable						
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Oak	2	Pole	8																																															
White Pine	36	Log/Pole	10																																															
Red Pine	62	Log	12	96																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Maple	Low	Variable	Variable																																															
White Pine	Low	Variable	Variable																																															
Red Oak	Low	Variable	Variable																																															
White Spruce	Low	Variable	Variable																																															
<b>63</b>	6225 - Bog	None	1.7			No	dune swale bog. A few small spruce, maple, white pine saplings - jack pine poles. Ground cover includes: leatherleaf, lab tea, brush.																																											
<b>64</b>	6225 - Bog	None	1.6			No	Dune swale bog. A few small spruce, maple, white pine saplings - jack pine poles. Ground cover includes: leatherleaf, lab tea, brush, sphagnum.																																											
<b>65</b>	42210 - Natural Red Pine	Sawtimber Medium	48.2	104	111-140	N/A	Very open stand with little to no understory. very low natural red pine regen present. Solid natural red pine with dune swale complex. Several marsh/wet areas located within stand. Bog inclusions contain spruce and dead pine. Stand harvested via shelterwood as "Betsy Oxbow Pine", sale #044-07-01. Complete 10/05/09. Regeneration check in 2014 (trees/acre): WP=260, RP=32, RO=82, RM=456, S=65, Fs=33. Some of the gaps have filled in since harvest. Other remaining trees are still suppressed and have smaller tops. There are also several dead patches about an acre in size scattered throughout the stand																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>8</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>90</td> <td>Log/Pole</td> <td>12</td> <td>104</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	2	Pole	8		White Pine	8	Log	12		Red Pine	90	Log/Pole	12	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	Black Spruce	Low	Variable	Variable	White Pine	Low	Variable	Variable										
Canopy Species	% Cover	Size Class	DBH	Age																																														
Paper Birch	2	Pole	8																																															
White Pine	8	Log	12																																															
Red Pine	90	Log/Pole	12	104																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Maple	Low	Variable	Variable																																															
Black Spruce	Low	Variable	Variable																																															
White Pine	Low	Variable	Variable																																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>66</b>	42210 - Natural Red Pine	Sawtimber Medium	11.4	104	111-140	N/A	Natural red pine stand nearing 90ish years old. Growing on a sandy dune swale complex with lowland bogs. This stand serves as a buffer to the recent cutting to the north and a ridge of high ground. The cut stand is in a flood plain and this transitions into the red pine dominated areas. Stand harvested in 2020 via Low Thinning: Andrus Lake Pine #42-002-18. Thick red pine on ridges. Spruce, red maple and birch mainly on edges.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		2	Pole	8		Black Spruce		
Paper Birch		3	Pole	6		Medium		
White Spruce		2	Pole	9		Variable		
Black Spruce		3	Pole	6		Variable		
White Pine		10	Log/Pole	12				
Red Pine		75	Log	12	104			
Jack Pine		5	Pole/Log	9				
<b>68</b>	42290 - Natural Mixed Pine	Sawtimber Medium	27.5	81	51-80	N/A		Split stand follow harvest in the middle. Natural mixed pine with a large chunk of plantation remnants in the NW. Stand goes around the river which falls into a steep floodplain. Mixed natural pine of R/W/J.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		30	Log	10		Jack Pine		
Red Pine		50	Log	10	81	High		
Jack Pine		20	Pole	6		Variable		
<b>70</b>	500 - Water	None	3.3			No	River oxbow with floodplain filled with drying trees in the bottom - A nice scenic spot.	
<b>71</b>	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	7.7	91	51-80	N/A	Oxbow areas and lowlands along Shell Drake River. Very low flood plain with a mix of species. Many trees dying from seasonal flooding.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Red Maple		25	Pole	8	91			
Paper Birch		25	Pole	8				
Balsam Fir		10	Pole	8				
Black Spruce		15	Pole/Log	9				
Northern White Cedar		10	Pole	6				
White Pine		12	Log	12				
Red Pine		3	Log	12				
<b>74</b>	42210 - Natural Red Pine	Sawtimber Medium	6.1	88	81-110	N/A	2025: Stand is still quite thick, and open underneath without adequate regen. Trees look good with less decline. Stand harvested in 2020 via Low Thinning: Andrus Lake Pine #42-002-18. Small stand left untreated from previous entry. Pathway/ORV trail through stand (illegal) and continuing onto private lands. Road follows western edge. Occasional birch and aspen. Evidence seen of cut RP - no record of cutting to be done here.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Oak		2	Pole	8		Red Oak		
White Pine		18	Pole/Log	8		Low		
Red Pine		80	Log/Pole	12	88	Variable		
						Variable		
<b>75</b>	6225 - Bog	None	0.9			No	Dune swale water pocket with leatherleaf, plus scattered dead trees. Gets super deep in the spring.	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	6225 - Bog	None	6.4			No	Dune swale water pocket with leatherleaf, plus scattered dead trees. Gets super deep in the spring.
79	623 - Emergent Wetland	None	0.9			No	Vernal pool from dune swale. Wet