

# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42067

Entry Year: 2027

Acreage: 1,709

County: Chippewa

Management Area: Grand Marais Moraine Complex

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**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**

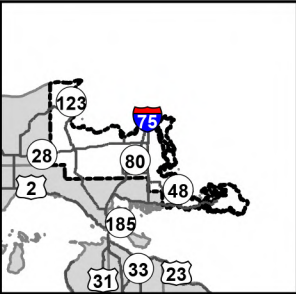
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

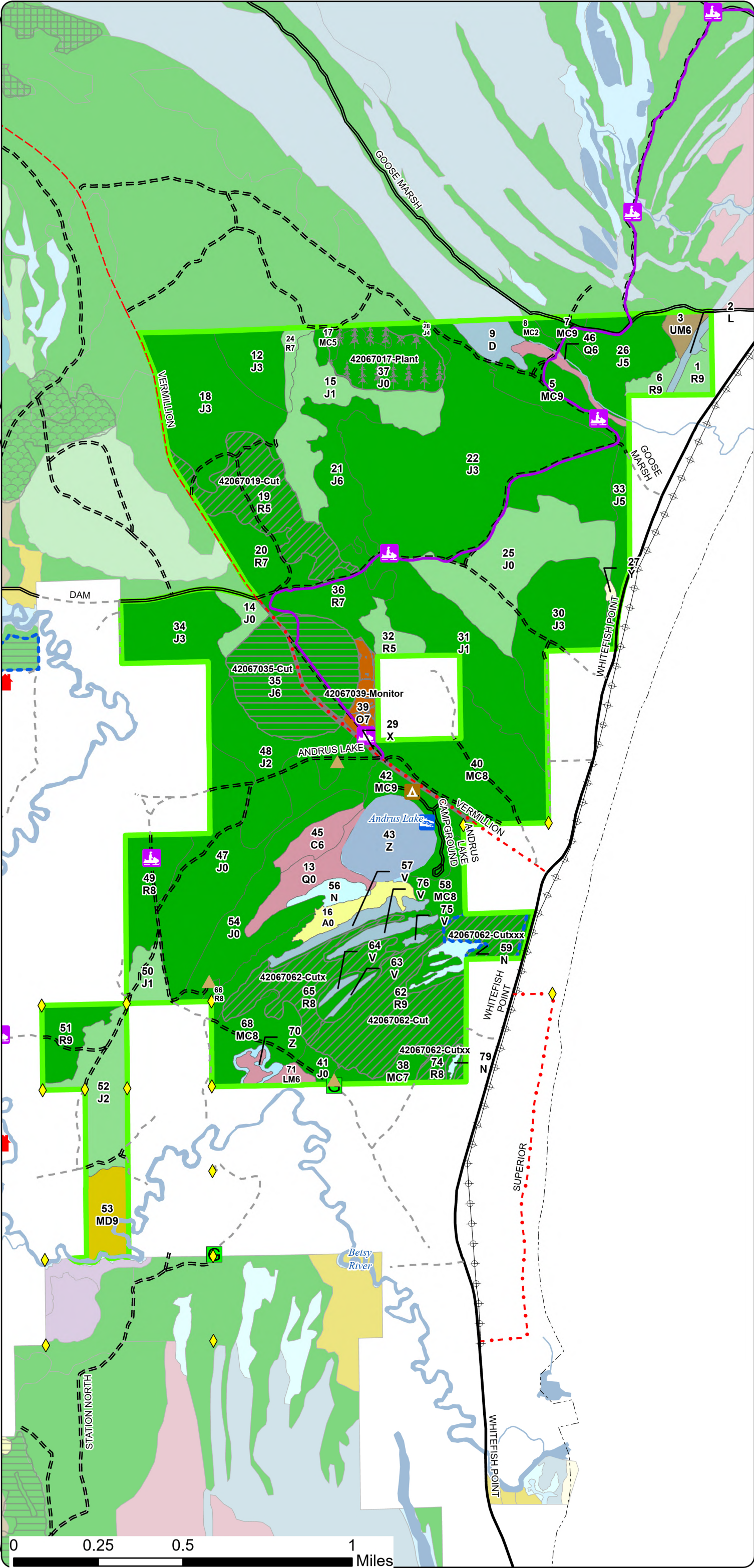


Cover Type & Treatments Map

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: 08/19/2025  
Map Phase: Web Post



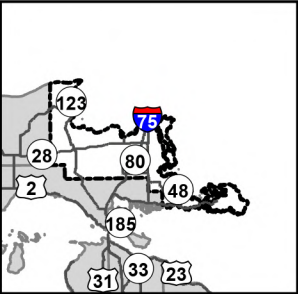
- Survey Grade Corners
- Cabin
- Berms
- Gate
- Boating Access Site
- Campground
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Powerline
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Thinning
- Planting (tree species)
- Monitoring - Regeneration
- Clearcut
- Seed Tree
- Site Prep
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 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



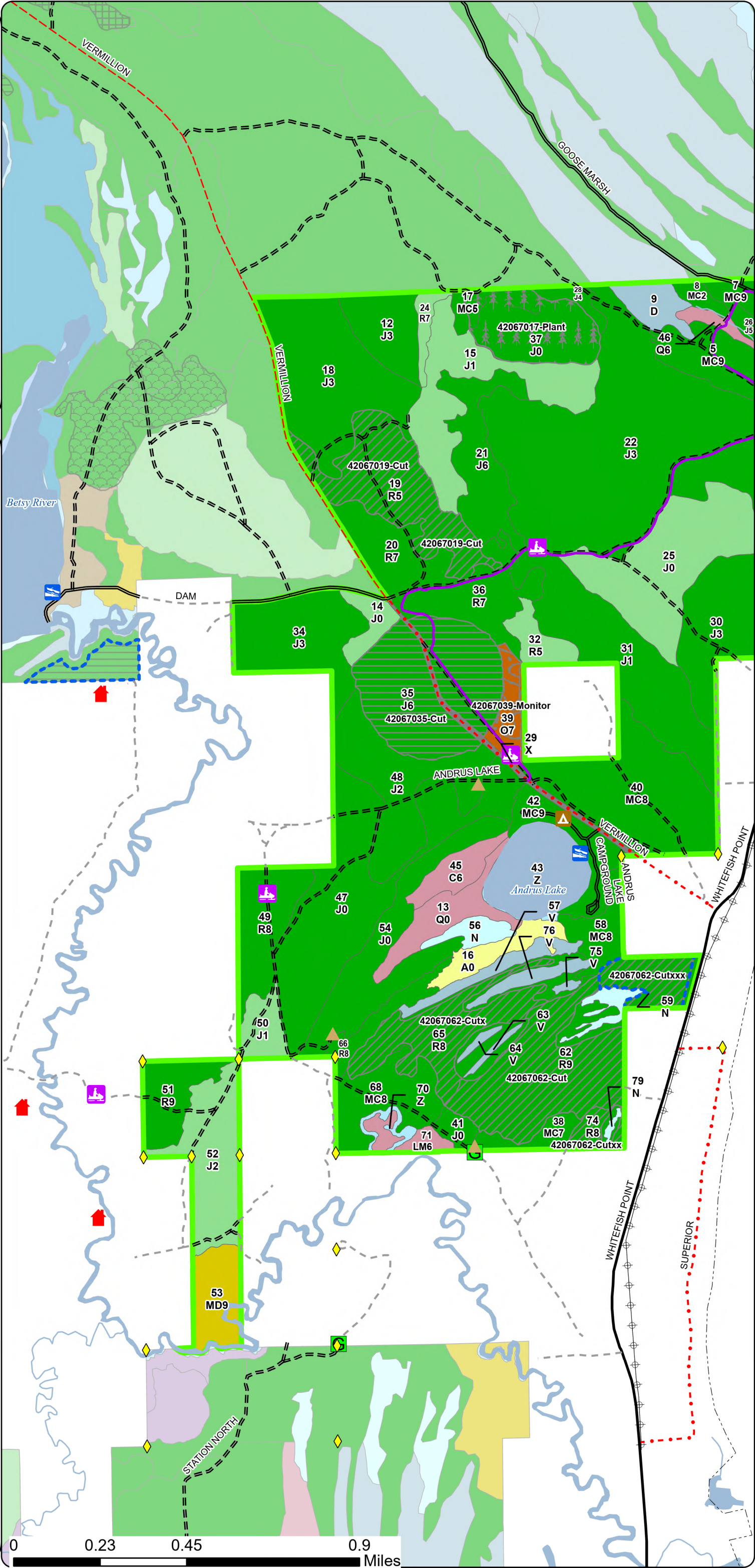


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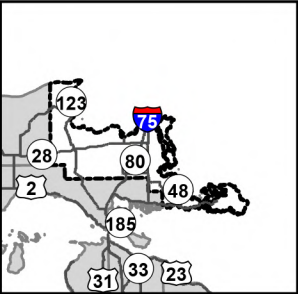
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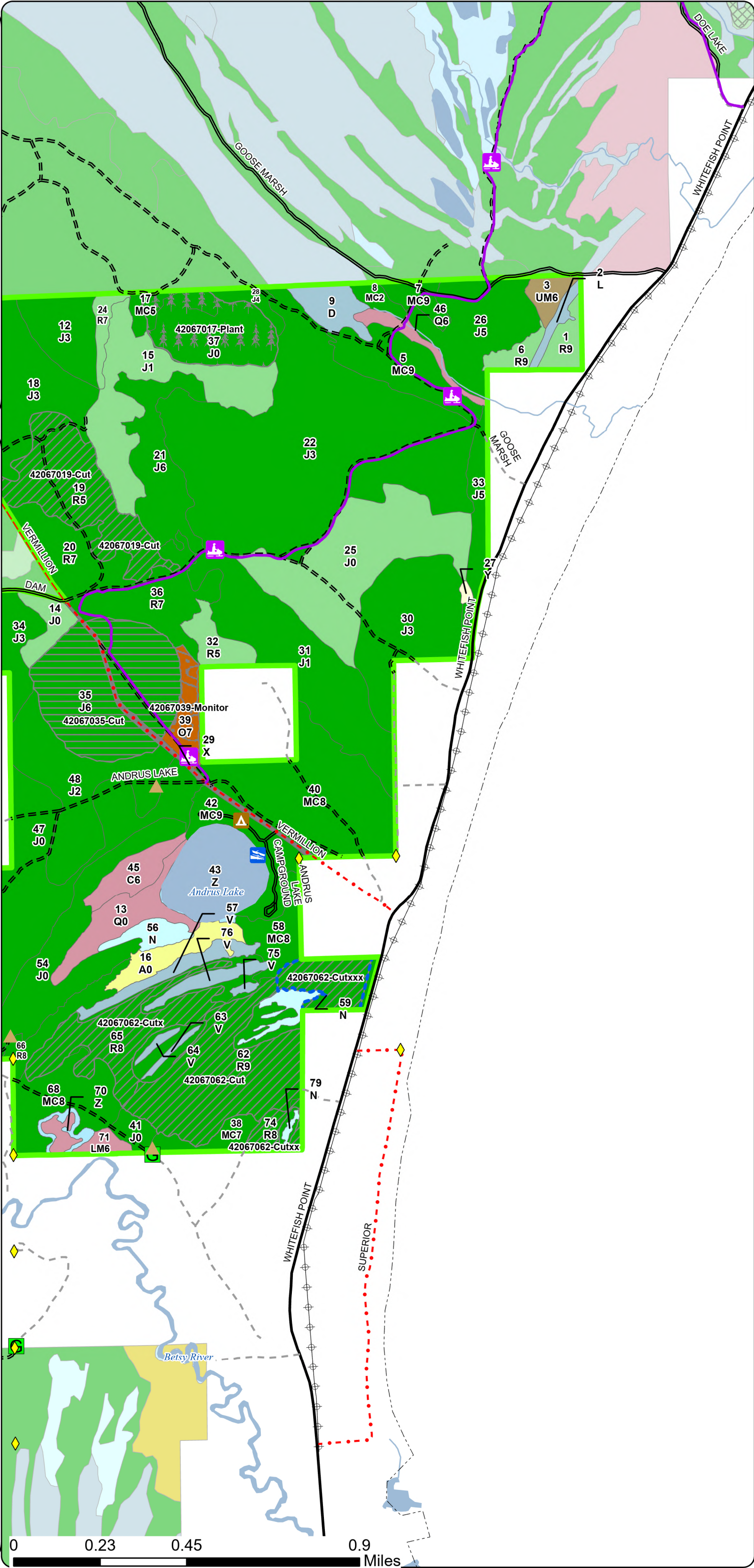


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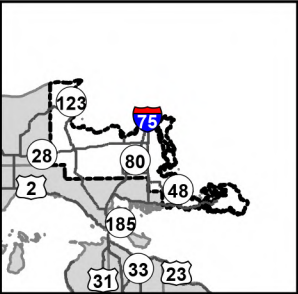
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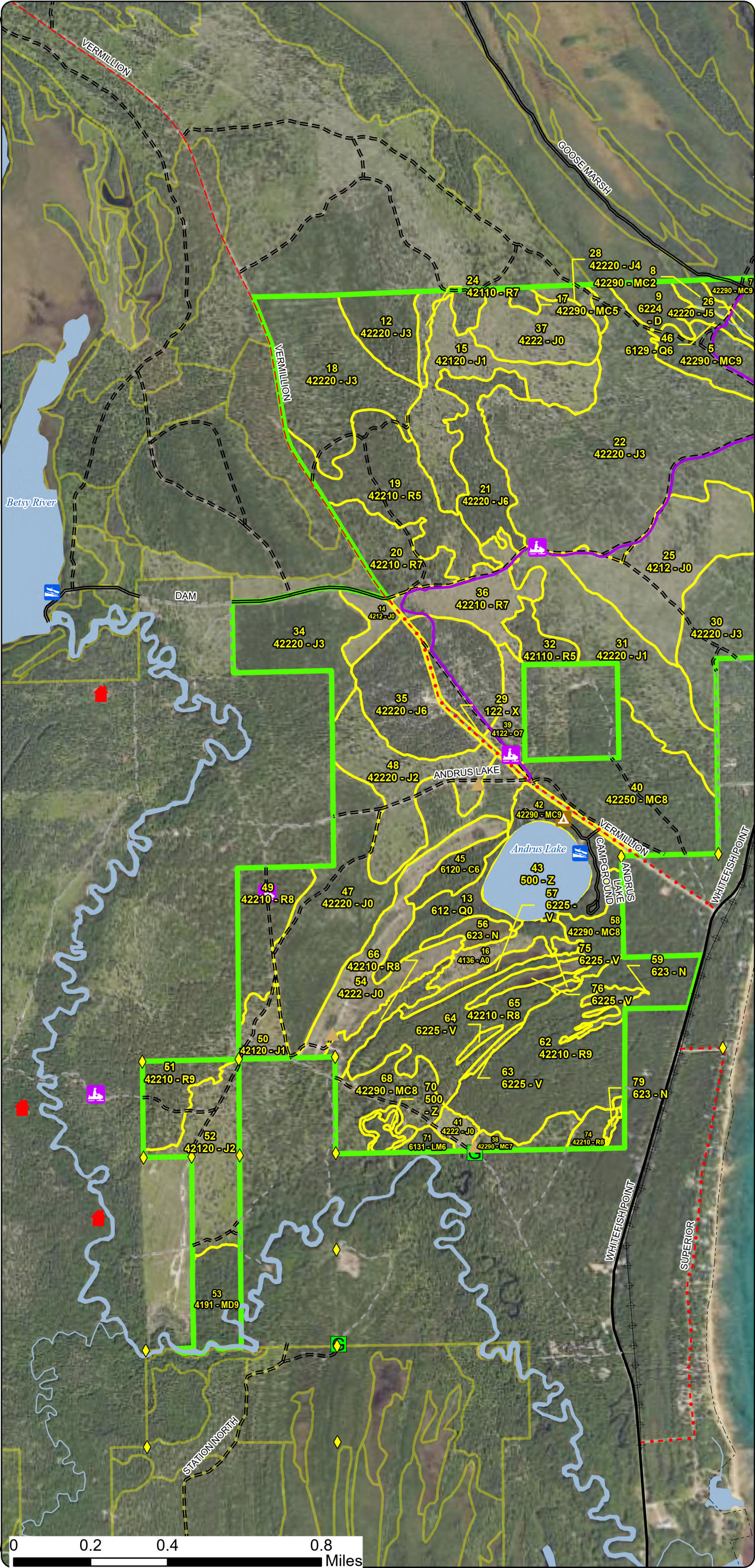


Stand Boundary Map

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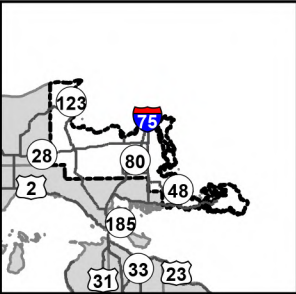
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Map

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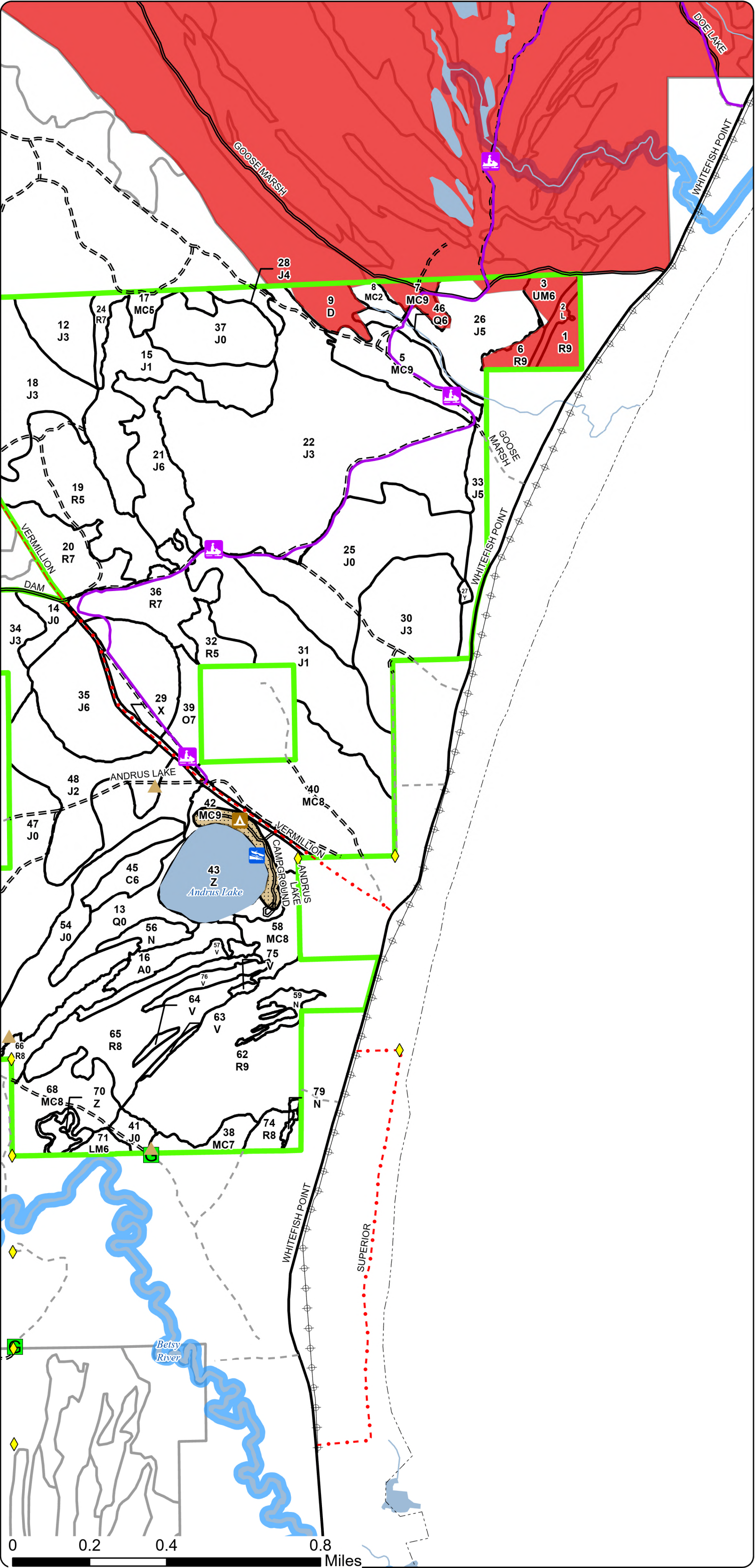
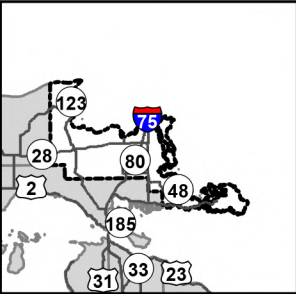






Special Conservation Areas  
& Site Conditions Map

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

Newberry Mgt. Unit

Compartment 67

Year of Entry 2027

Anthony Ciaramitaro: Examiner

## Age Class

|                        | Non-Forest | 0-9       | 10-19      | 20-29      | 30-39     | 40-49    | 50-59     | 60-69     | 70-79     | 80-89      | 90-99      | 100-109   | 110-119   | 120-129  | 130-139  | 140-149  | 150+     | Unseen-Aged | Total       |
|------------------------|------------|-----------|------------|------------|-----------|----------|-----------|-----------|-----------|------------|------------|-----------|-----------|----------|----------|----------|----------|-------------|-------------|
| 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              | 250        | 62        | 149        | 365        | 43        | 0        | 37        | 70        | 17        | 0          | 0          | 0         | 0         | 0        | 0        | 0        | 0        | 0           | 993         |
| 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         | 138        | 140        | 60        | 0         | 0        | 0        | 0        | 0        | 0           | 343         |
| 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>376</b> | <b>62</b> | <b>149</b> | <b>365</b> | <b>56</b> | <b>0</b> | <b>45</b> | <b>70</b> | <b>22</b> | <b>312</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 - 1053  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

|           | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Oversory Removal | Salvage | Other | Total Acres |
|-----------|----------|-----------|----------------|-----------|-------------|----------|------------------|---------|-------|-------------|
| Jack Pine | 70       | 0         | 0              | 0         | 0           | 0        | 0                | 0       | 0     | 70          |
| Red Pine  | 0        | 0         | 0              | 0         | 0           | 173      | 0                | 0       | 0     | 173         |
| Total     | 70       | 0         | 0              | 0         | 0           | 173      | 0                | 0       | 0     | 243         |

### Proposed and Next Step Treatments by Method

|           | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|-----------|---------|-----------|----------|---------|---------|-----------|------------|-------|-----------------|-------------|
| Current   | 243     | 0         | 35       | 0       | 0       | 0         | 11         | 0     | 0               | 289         |
| Next Step | 0       | 255       | 314      | 0       | 64      | 0         | 280        | 0     | 0               | 914         |
| Total     | 243     | 255       | 350      | 0       | 64      | 0         | 291        | 0     | 0               | 1203        |



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

**Proposed Treatments:**

|   |                       |      |                            |   |    |             |          |                         |                             |                 |    |
|---|-----------------------|------|----------------------------|---|----|-------------|----------|-------------------------|-----------------------------|-----------------|----|
| <b>17</b>   | <b>42067017-Plant</b> | 35.4 | 42290 - Natural Mixed Pine | 5 | 57 | 51-80       | Planting | Planting (tree species) | 429 - Mixed Upland Conifers | Planting Record | No |
| <u>Prescription</u> 2023 wildfire burned the planted jack pine. Trenches in good shape and available for replanting. initial plant of jack pine.<br><u>Specs:</u><br><u>Next Step</u> Monitoring, Artificial Regen; Planting, Trenched Supplemental Plant; Monitoring, Artificial Regen<br><u>Treatments:</u><br><u>Acceptable</u> Jack pine and mixed R/W pine<br><u>Regen:</u><br><u>Other</u> approved at review to move directly to an initial plant.<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026  |                       |      |                            |   |    |             |          |                         |                             |                 |    |
| <b>19</b>   | <b>42067019-Cut</b>   | 51.6 | 42210 - Natural Red Pine   | 5 | 87 | 111-140     | Harvest  | Thinning                | 4221 - Natural Red Pine     | Cutting Record  | No |
| <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<br><u>Specs:</u><br><u>Next Step</u> SitePrep, Scarification<br><u>Treatments:</u><br><u>Acceptable</u> red pine<br><u>Regen:</u><br><u>Other</u> Areas too thick to jack pine may be "lined-out" in sale prep. Keep scarification in mind during sale prep.<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026  |                       |      |                            |   |    |             |          |                         |                             |                 |    |
| <b>35</b>   | <b>42067035-Cut</b>   | 69.7 | 42220 - Natural Jack Pine  | 6 | 60 | Unspecified | Harvest  | Clearcut                | 4222 - Natural Jack Pine    | Planting Record | No |
| <u>Prescription</u> Clearcut with patch retention. Place retention near road or applicable spot to facilitate scarification.<br><u>Specs:</u><br><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<br><u>Treatments:</u><br><u>Acceptable</u> jack pine, with oak birch or other pioneer spp.<br><u>Regen:</u><br><u>Other</u><br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026  |                       |      |                            |   |    |             |          |                         |                             |                 |    |
| <b>62</b>   | <b>42067062-Cut</b>   | 64.2 | 42210 - Natural Red Pine   | 9 | 95 | 111-140     | Harvest  | Thinning                | 4221 - Natural Red Pine     | Planting Record | No |
| <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<br><u>Specs:</u><br><u>Next Step</u> SitePrep, Scarification; Burn, Slash<br><u>Treatments:</u><br><u>Acceptable</u> red and white pine<br><u>Regen:</u><br><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 deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking path. John<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026 |                       |      |                            |   |    |             |          |                         |                             |                 |    |



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| Treatment Name   | Acres | Stand CoverType          | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective    | Age Structure   | Habitat Cut |
|--|-------|--------------------------|--------------|-----------|----------|----------------|------------------|-------------------------|-----------------|-------------|
| <b>62 42067062-Cutx</b>  | 36.5  | 42210 - Natural Red Pine | 9            | 95        | 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<br><u>Specs:</u><br><u>Next Step</u><br><u>Treatments:</u><br><u>Acceptable</u> red and white pine<br><u>Regen:</u><br><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 truck or deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking pa<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026 |       |                          |              |           |          |                |                  |                         |                 |             |
| <b>62 42067062-Cutxx</b>   | 4.8   | 42210 - Natural Red Pine | 9            | 95        | 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<br><u>Specs:</u><br><u>Next Step</u><br><u>Treatments:</u><br><u>Acceptable</u> red and white pine<br><u>Regen:</u><br><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 lake, lots of folks walk this trail cut less around the walking path. John did the survey for the sw corner may n<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026  |       |                          |              |           |          |                |                  |                         |                 |             |
| <b>62 42067062-Cutxxx</b>  | 16.2  | 42210 - Natural Red Pine | 9            | 95        | 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 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<br><u>Specs:</u><br><u>Next Step</u><br><u>Treatments:</u><br><u>Acceptable</u> red and white pine<br><u>Regen:</u><br><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 deck on the grade going north to the lake, lots of folks walk this trail cut less around the walking path. John<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2026   |       |                          |              |           |          |                |                  |                         |                 |             |

**Approved Treatments:**

|   |      |                  |   |    |      |            |                           |                          |                 |    |
|---|------|------------------|---|----|------|------------|---------------------------|--------------------------|-----------------|----|
| <b>39 42067039-Monitor</b>  | 10.6 | 4122 - Oak, Pine | 7 | 80 | 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.<br><u>Specs:</u><br><u>Next Step</u><br><u>Treatments:</u><br><u>Acceptable</u> Jack pine, red pine, white pine, oak<br><u>Regen:</u><br><u>Other</u> Percent to Treat = 100%<br><u>Comment:</u><br><u>Site Condition:</u><br><u>Proposed Start Date:</u> 10/01/2025 |      |                  |   |    |      |            |                           |                          |                 |    |



S  
t  
a  
n  
dTreatment  
Name

Acres

Stand  
CoverTypeSize  
DensityStand  
AgeBA  
RangeTreatment  
TypeTreatment  
MethodCover Type  
ObjectiveAge  
StructureHabitat  
Cut

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Total Treatment  
Acreage Proposed: 289



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

Compartment: 67  
Year of Entry: 2027



## Availability for Management

Total Acres    Acres Available    Acres With Condition    Acres Not Available

## Dominant Site Conditions

|       |       |    |     |                        | 2B | 2E | 2F | 2G | 3D | 3J | 5D | 5E |
|-------|-------|----|-----|------------------------|----|----|----|----|----|----|----|----|
| 4     | 0     | 0  | 4   | Aspen                  |    |    |    |    |    | 2  |    | 2  |
| 20    | 20    | 0  | 0   | Bog                    |    |    |    |    |    |    |    |    |
| 12    | 0     | 0  | 12  | Cedar                  |    |    |    | 12 |    |    |    |    |
| 991   | 975   | 0  | 17  | Jack Pine              |    |    | 17 |    |    |    |    |    |
| 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                    |    |    |    |    |    |    |    |    |
| 196   | 159   | 14 | 23  | Red Pine               | 8  | 6  |    |    |    |    |    | 23 |
| 1     | 1     | 0  | 0   | Sand, Soil             |    |    |    |    |    |    |    |    |
| 12    | 0     | 0  | 12  | Treed Bog              |    |    |    |    |    |    | 12 |    |
| 6     | 7     | 0  | 0   | Upland Mixed Forest    |    |    |    |    |    |    |    |    |
| 7     | 7     | 0  | 0   | Urban                  |    |    |    |    |    |    |    |    |
| 36    | 36    | 0  | 0   | Water                  |    |    |    |    |    |    |    |    |
| 1,507 | 1,349 | 14 | 144 | Total Forested Acres   | 8  | 6  | 17 | 23 | 14 | 41 | 22 | 27 |
|       | 90%   | 1% | 10% | 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><br>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><br>reshape based on Rx lines   |                                 |   |       |  |  |                      |                      |



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

Compartment: 67  
Year of Entry: 2027



|  |             |  |    |                   |             |             |             |
|--|-------------|--|----|-------------------|-------------|-------------|-------------|
| 3  | Unavailable | 3J: Water quality/BMPs (stream, river, or lake)                              | 8  | Unspecified       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Low ground alongside old river oxbows. |             |  |    |                   |             |             |             |
| 4  | Available   | 5C: Delay treatment for age/size class diversity or exceptional site quality | 16 | Unspecified       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |  |    |                   |             |             |             |
| 5  | Unavailable | 2F: Too steep  | 17 | 2I: Survey needed | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |  |    |                   |             |             |             |
| 6  | Available   | 2E: Road needed  | 6  | 2I: Survey needed | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |  |    |                   |             |             |             |
| 7  | Available   | 2B: Unknown if access through adjacent landowner(s) is possible              | 8  | 2I: Survey needed | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |  |    |                   |             |             |             |
| 10   | Unavailable | 2G: Too wet (sensitive soils, does not include access issues)                | 12 | Unspecified       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |  |    |                   |             |             |             |



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

Compartment: 67  
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|  |             |   |    |   |             |             |             |
|--|-------------|---|----|---|-------------|-------------|-------------|
| 12   | Unavailable | 5E: Long-Term Retention                         | 4  | 3G: Other influence zones - See comments        | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Retention pocket for stand 16. Buffers low areas along Andrus Lake and other wetlands. |             |   |    |   |             |             |             |
| 15   | Unavailable | 5D: Unproductive forest land                    | 12 | Unspecified                                     | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |   |    |   |             |             |             |
| 16   | Unavailable | 5E: Long-Term Retention                         | 0  | Unspecified                                     | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |   |    |   |             |             |             |
| 17   | Unavailable | 5E: Long-Term Retention                         | 1  | Unspecified                                     | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |   |    |   |             |             |             |
| 18   | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 6  | Unspecified                                     | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |   |    |   |             |             |             |
| 19   | Unavailable | 5E: Long-Term Retention                         | 0  | 5E: Long-Term Retention                         | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>   |             |   |    |   |             |             |             |
| 20   | Unavailable | 3D: Recreational/scenic values                  | 15 | 3J: Water quality/BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Andrus Lake Campground.  |             |   |    |   |             |             |             |



## Report 4 – Site Conditions

Newberry Mgt. Unit  
Anthony Ciaramitaro: Examiner

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



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

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

| SCA Name                                | SCA Category                   | Detail Type             | Recommendation | Acres |
|---|--------------------------------|-------------------------|----------------|-------|
| <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   | 87        | 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   | 87        | 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><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>5</td><td>Seedling</td><td>8</td><td></td><td>Balsam Fir</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>30</td><td>Seedling</td><td>8</td><td>87</td><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>14</td><td>87</td><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>13</td><td></td><td>14</td><td></td><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>20</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Northern White Cedar</td><td>2</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Paper Birch</td><td>20</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr></table> |                            |                 |       |           |                    |              |  | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | Jack Pine | 5  | Seedling | 8  |    | Balsam Fir | Full | Variable    | Variable    | Red Maple  | 30 | Seedling | 8  | 87 | Red Maple | Medium | Variable | Variable | Red Pine | 10 |  | 14 | 87 | Black Spruce | Medium | Variable | Variable | White Pine | 13 |  | 14 |  | Tag Alder | Low | 5 - 10 feet | 5 - 10 feet | Black Spruce | 20 | Seedling | 8 |  |  |  |  |  | Northern White Cedar | 2 | Seedling | 8 |  |  |  |  |  | Paper Birch | 20 | Seedling | 8 |  |  |  |  |  |
| Canopy Species  | % Cover                    | Size Class      | DBH   | Age       | Sub-Canopy Species | Density      | Avg. Height  | Size           |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Jack Pine   | 5                          | Seedling        | 8     |           | Balsam Fir         | Full         | Variable   | Variable       |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Red Maple   | 30                         | Seedling        | 8     | 87        | Red Maple          | Medium       | Variable   | Variable       |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Red Pine  | 10                         |                 | 14    | 87        | Black Spruce       | Medium       | Variable   | Variable       |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| White Pine  | 13                         |                 | 14    |           | Tag Alder          | Low          | 5 - 10 feet  | 5 - 10 feet    |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Black Spruce  | 20                         | Seedling        | 8     |           |                    |              |  |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Northern White Cedar  | 2                          | Seedling        | 8     |           |                    |              |  |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Paper Birch   | 20                         | Seedling        | 8     |           |                    |              |  |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| 5   | 42290 - Natural Mixed Pine | Sawtimber Well  | 26.8  | 85        | 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). |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Pine</td><td>50</td><td></td><td>12</td><td>85</td><td>Jack Pine</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>50</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td></tr></table>   |                            |                 |       |           |                    |              |  | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | Red Pine  | 50 |          | 12 | 85 | Jack Pine  | Full | 5 - 10 feet | 5 - 10 feet | White Pine | 50 |          | 12 |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Canopy Species  | % Cover                    | Size Class      | DBH   | Age       | Sub-Canopy Species | Density      | Avg. Height  | Size           |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| Red Pine  | 50                         |                 | 12    | 85        | Jack Pine          | Full         | 5 - 10 feet  | 5 - 10 feet    |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| White Pine  | 50                         |                 | 12    |           |                    |              |  |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |
| 6   | 42110 - Planted Red Pine   | Sawtimber Well  | 5.8   | 87        | 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.  |                |         |            |     |     |                    |         |             |      |           |    |          |    |    |            |      |             |             |            |    |          |    |    |           |        |          |          |          |    |  |    |    |              |        |          |          |            |    |  |    |  |           |     |             |             |              |    |          |   |  |  |  |  |  |                      |   |          |   |  |  |  |  |  |             |    |          |   |  |  |  |  |  |

| Stand  | Level 4 Cover Type              | Size Density   | Acres    | Stand Age  | BA Range    | Managed Site   | General Comments   |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|--|---------------------------------|----------------|----------|------------|-------------|--|--|------------|-------------|------|------------|-----|----------|----------|-----------|------|----------|-----------|----------|------|----------|----------|---|----|--------------------|---------|-------------|--------------|---------|--------|----------|----------|-------------|-----|----------|----------|----|--|--|
| 7  | 42290 - Natural Mixed Pine      | Sawtimber Well | 7.5      | 90         | 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.   |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>35</td><td></td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>20</td><td></td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>45</td><td></td><td>11</td><td>90</td></tr></table>  |                                 | Canopy Species | % Cover  | Size Class | DBH         | Age  |  | White Pine | 35          |      | 12         |     | Red Oak  | 20       |           | 10   |          | Red Pine  | 45       |      | 11       | 90       | <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Medium</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>Paper Birch</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>   |    | Sub-Canopy Species | Density | Avg. Height | Size         | Red Oak | Medium | < 5 feet | < 5 feet | Paper Birch | Low | Variable | Variable |    |  |  |
| Canopy Species   | % Cover                         | Size Class     | DBH      | Age        |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| White Pine   | 35                              |                | 12       |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Oak  | 20                              |                | 10       |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Pine   | 45                              |                | 11       | 90         |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Sub-Canopy Species   | Density                         | Avg. Height    | Size     |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Oak  | Medium                          | < 5 feet       | < 5 feet |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Paper Birch  | Low                             | Variable       | Variable |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| 8  | 42290 - Natural Mixed Pine      | Sapling Medium | 4.4      | 33         | 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. |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>13</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>Black Spruce</td><td>15</td><td>Log</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>55</td><td>Log</td><td>3</td><td>33</td></tr></table> |                                 | Canopy Species | % Cover  | Size Class | DBH         | Age  |  | White Pine | 2           | Log  | 3          |     | Red Oak  | 5        | Seedling  | 8    |          | Red Pine  | 13       |      | 12       |          | Red Maple   | 10 | Log                | 2       |             | Black Spruce | 15      | Log    | 3        |          | Jack Pine   | 55  | Log      | 3        | 33 |  |  |
| Canopy Species   | % Cover                         | Size Class     | DBH      | Age        |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| White Pine   | 2                               | Log            | 3        |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Oak  | 5                               | Seedling       | 8        |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Pine   | 13                              |                | 12       |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Maple  | 10                              | Log            | 2        |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Black Spruce   | 15                              | Log            | 3        |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Jack Pine  | 55                              | Log            | 3        | 33         |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| 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     | 24         | 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.   |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>8</td><td></td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>17</td><td></td><td>12</td><td></td></tr><tr><td>Jack Pine</td><td>75</td><td>Pole</td><td>4</td><td>24</td></tr></table>  |                                 | Canopy Species | % Cover  | Size Class | DBH         | Age  |  | White Pine | 8           |      | 10         |     | Red Pine | 17       |           | 12   |          | Jack Pine | 75       | Pole | 4        | 24       |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Canopy Species   | % Cover                         | Size Class     | DBH      | Age        |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| White Pine   | 8                               |                | 10       |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Pine   | 17                              |                | 12       |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Jack Pine  | 75                              | Pole           | 4        | 24         |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
|  |                                 |                |          |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| 13   | 612 - Lowland Coniferous Forest | Unspecified    | 18.6     | 4          | 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   | 4212 - Planted Jack Pine        | Unspecified    | 8.9      | 5          | Unspecified | <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>&gt;20 feet</td><td>&gt;20 feet</td></tr><tr><td>Jack Pine</td><td>High</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></table> | Sub-Canopy Species   | Density    | Avg. Height | Size | White Pine | Low | >20 feet | >20 feet | Jack Pine | High | < 5 feet | < 5 feet  | Red Pine | Low  | >20 feet | >20 feet | 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. Higher residual mixed pine here from RX. |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Sub-Canopy Species   | Density                         | Avg. Height    | Size     |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| White Pine   | Low                             | >20 feet       | >20 feet |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Jack Pine  | High                            | < 5 feet       | < 5 feet |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |
| Red Pine   | Low                             | >20 feet       | >20 feet |            |             |  |  |            |             |      |            |     |          |          |           |      |          |           |          |      |          |          |   |    |                    |         |             |              |         |        |          |          |             |     |          |          |    |  |  |



| Stand  | Level 4 Cover Type          | Size Density      | Acres        | Stand Age | BA Range    | Managed Site | General Comments  |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|--|-----------------------------|-------------------|--------------|-----------|-------------|--------------|---|----------------|-------------|------------|-----------|-----|--------------|--------------|-----------|--------|--------------|--------------|----|----------|----|----|------------|----|----------|----|----|
| 15   | 42120 - Planted Jack Pine   | Sapling Poor      | 49.5         | 8         | 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=357Failed scarification.<br><br>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. |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Log</td><td>1</td><td>8</td></tr></table>  |                             |                   |              |           |             |              |   | Canopy Species | % Cover     | Size Class | DBH       | Age | Jack Pine    | 100          | Log       | 1      | 8            |              |    |          |    |    |            |    |          |    |    |
| Canopy Species   | % Cover                     | Size Class        | DBH          | Age       |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Jack Pine  | 100                         | Log               | 1            | 8         |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| 16   | 4136 - Aspen, Mixed Conifer | Unspecifed        | 12.6         | 4         | 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.  |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| 17   | 42290 - Natural Mixed Pine  | Poletimber Medium | 8.1          | 57        | 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.   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>10</td><td>Seedling</td><td>8</td><td>57</td></tr><tr><td>White Pine</td><td>45</td><td>Seedling</td><td>8</td><td>57</td></tr><tr><td>Red Pine</td><td>45</td><td>Seedling</td><td>8</td><td>57</td></tr></table> |                             |                   |              |           |             |              |   | Canopy Species | % Cover     | Size Class | DBH       | Age | Jack Pine    | 10           | Seedling  | 8      | 57           | White Pine   | 45 | Seedling | 8  | 57 | Red Pine   | 45 | Seedling | 8  | 57 |
| Canopy Species   | % Cover                     | Size Class        | DBH          | Age       |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Jack Pine  | 10                          | Seedling          | 8            | 57        |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| White Pine   | 45                          | Seedling          | 8            | 57        |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Red Pine   | 45                          | Seedling          | 8            | 57        |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| 18   | 42220 - Natural Jack Pine   | Sapling Well      | 67.3         | 24        | 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.  |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>75</td><td>Log</td><td>1</td><td>24</td></tr><tr><td>Red Pine</td><td>17</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>8</td><td></td><td>10</td><td></td></tr></table>                         |                             |                   |              |           |             |              |   | Canopy Species | % Cover     | Size Class | DBH       | Age | Jack Pine    | 75           | Log       | 1      | 24           | Red Pine     | 17 |          | 12 |    | White Pine | 8  |          | 10 |    |
| Canopy Species   | % Cover                     | Size Class        | DBH          | Age       |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Jack Pine  | 75                          | Log               | 1            | 24        |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Red Pine   | 17                          |                   | 12           |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| White Pine   | 8                           |                   | 10           |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| 19   | 42210 - Natural Red Pine    | Poletimber Medium | 51.6         | 87        | 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 YOE.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.   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>90</td><td></td><td>9</td><td>87</td></tr></table>   |                             |                   |              |           |             |              |   | Canopy Species | % Cover     | Size Class | DBH       | Age | White Pine   | 10           | Seedling  | 8      |              | Red Pine     | 90 |          | 9  | 87 |            |    |          |    |    |
| Canopy Species   | % Cover                     | Size Class        | DBH          | Age       |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| White Pine   | 10                          | Seedling          | 8            |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Red Pine   | 90                          |                   | 9            | 87        |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
|  |                             |                   |              |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>  |                             |                   |              |           |             |              | Sub-Canopy Species  | Density        | Avg. Height | Size       | Jack Pine | Low | 10 - 20 feet | 10 - 20 feet | Red Maple | Medium | 10 - 20 feet | 10 - 20 feet |    |          |    |    |            |    |          |    |    |
| Sub-Canopy Species   | Density                     | Avg. Height       | Size         |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Jack Pine  | Low                         | 10 - 20 feet      | 10 - 20 feet |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |
| Red Maple  | Medium                      | 10 - 20 feet      | 10 - 20 feet |           |             |              |   |                |             |            |           |     |              |              |           |        |              |              |    |          |    |    |            |    |          |    |    |

| Stand          | Level 4 Cover Type        | Size Density       | Acres      | Stand Age | BA Range    | Managed Site       | General Comments   |   |              |              |
|----------------|---------------------------|--------------------|------------|-----------|-------------|--------------------|--|---|--------------|--------------|
| 20             | 42210 - Natural Red Pine  | Sawtimber Poor     | 25.7       | 87        | 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.  |   |              |              |
| Canopy Species |                           | % Cover            | Size Class | DBH       | Age         | Sub-Canopy Species |  | Density   | Avg. Height  | Size         |
| White Pine     |                           | 5                  |            | 12        |             | White Pine         |  | Low   | 10 - 20 feet | 10 - 20 feet |
| Red Pine       |                           | 95                 |            | 12        | 87          | Red Pine           |  | Low   | 10 - 20 feet | 10 - 20 feet |
|                |                           |                    |            |           |             | Jack Pine          |  | Full  | 10 - 20 feet | 10 - 20 feet |
| 21             | 42220 - Natural Jack Pine | Poletimber Well    | 32.3       | 57        | 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   |   |              |              |
| Canopy Species |                           | % Cover            | Size Class | DBH       | Age         |                    |  |   |              |              |
| Red Pine       |                           | 10                 |            | 14        |             |                    |  |   |              |              |
| White Pine     |                           | 5                  |            | 12        |             |                    |  |   |              |              |
| Jack Pine      |                           | 85                 | Sapling    | 6         | 57          |                    |  |   |              |              |
| 22             | 42220 - Natural Jack Pine | Sapling Well       | 187.8      | 24        | 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).   |   |              |              |
| Canopy Species |                           | % Cover            | Size Class | DBH       | Age         |                    |  |   |              |              |
| Red Pine       |                           | 24                 |            | 12        |             |                    |  |   |              |              |
| White Pine     |                           | 1                  |            | 10        |             |                    |  |   |              |              |
| Jack Pine      |                           | 75                 | Log        | 1         | 24          |                    |  |   |              |              |
| 24             | 42110 - Planted Red Pine  | Sawtimber Poor     | 5.4        | 71        | 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=357Failed scarification.  |   |              |              |
| Canopy Species |                           | % Cover            | Size Class | DBH       | Age         |                    |  |   |              |              |
| Jack Pine      |                           | 5                  | Seedling   | 5         | 8           |                    |  |   |              |              |
|                |                           | Red Pine           | 95         |           | 12          | 71                 |  |   |              |              |
|                |                           |                    |            |           |             |                    |  | 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. |              |              |
|                |                           |                    |            |           |             |                    |  |   |              |              |
| 25             | 4212 - Planted Jack Pine  | Unspecified        | 72.1       | 7         |             |                    | 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. 6/9/19Jack 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. 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 |   |              |              |
|                |                           | Sub-Canopy Species |            | Density   | Avg. Height | Size               |  |   |              |              |
|                |                           | Red Oak            |            | Low       | < 5 feet    | < 5 feet           |  |   |              |              |
|                |                           | Red Pine           |            | Low       | < 5 feet    | < 5 feet           |  |   |              |              |
|                |                           | Jack Pine          |            | High      | < 5 feet    | < 5 feet           |  |   |              |              |
|                |                           | Red Pine           |            | Low       | Variable    | Variable           |  |   |              |              |
|                |                           | White Pine         |            | Low       | Variable    | Variable           |  |   |              |              |
|                |                           | Red Maple          |            | Medium    | < 5 feet    | < 5 feet           |  |   |              |              |



| Stand  | Level 4 Cover Type        | Size Density      | Acres | Stand Age | BA Range    | Managed Site | General Comments  |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|--|---------------------------|-------------------|-------|-----------|-------------|--------------|---|----------------|---------|------------|-----|-----|------------|-----|----------|----|----|------------|---|----------|----|--|-----------|----|----------|----|----|
| 26   | 42220 - Natural Jack Pine | Poletimber Medium | 38.0  | 24        |             | 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.   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Pole</td><td>4</td><td>24</td></tr></table>  |                           |                   |       |           |             |              |   | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine  | 100 | Pole     | 4  | 24 |            |   |          |    |  |           |    |          |    |    |
| Canopy Species   | % Cover                   | Size Class        | DBH   | Age       |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Jack Pine  | 100                       | Pole              | 4     | 24        |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| 27   | 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.  |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| 28   | 42220 - Natural Jack Pine | Poletimber Poor   | 5.1   | 57        | 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.<br><br>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><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>3</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Jack Pine</td><td>95</td><td>Seedling</td><td>8</td><td>57</td></tr></table> |                           |                   |       |           |             |              |   | Canopy Species | % Cover | Size Class | DBH | Age | White Pine | 2   | Seedling | 8  |    | Red Pine   | 3 | Seedling | 8  |  | Jack Pine | 95 | Seedling | 8  | 57 |
| Canopy Species   | % Cover                   | Size Class        | DBH   | Age       |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| White Pine   | 2                         | Seedling          | 8     |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Red Pine   | 3                         | Seedling          | 8     |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Jack Pine  | 95                        | Seedling          | 8     | 57        |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| 29   | 122 - Road/Parking Lot    | None              | 7.1   |           |             | No           | Vermillion Road   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| 30   | 42220 - Natural Jack Pine | Sapling Well      | 50.2  | 24        | 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><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>85</td><td>Log</td><td>1</td><td>24</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>11</td><td></td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>11</td><td></td></tr></table>                   |                           |                   |       |           |             |              |   | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine  | 85  | Log      | 1  | 24 | White Pine | 5 |          | 11 |  | Red Pine  | 10 |          | 11 |    |
| Canopy Species   | % Cover                   | Size Class        | DBH   | Age       |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Jack Pine  | 85                        | Log               | 1     | 24        |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| White Pine   | 5                         |                   | 11    |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Red Pine   | 10                        |                   | 11    |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| 31   | 42220 - Natural Jack Pine | Sapling Poor      | 62.0  | 16        | Immature    | N/A          | Jack pine regeneration is patchy. JP~3 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= 7686 to 10 ft j3  |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>25</td><td></td><td>10</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Jack Pine</td><td>70</td><td>Log</td><td>1</td><td>16</td></tr></table>            |                           |                   |       |           |             |              |   | Canopy Species | % Cover | Size Class | DBH | Age | Red Pine   | 25  |          | 10 |    | White Pine | 5 | Seedling | 8  |  | Jack Pine | 70 | Log      | 1  | 16 |
| Canopy Species   | % Cover                   | Size Class        | DBH   | Age       |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Red Pine   | 25                        |                   | 10    |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| White Pine   | 5                         | Seedling          | 8     |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
| Jack Pine  | 70                        | Log               | 1     | 16        |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |
|  |                           |                   |       |           |             |              |   |                |         |            |     |     |            |     |          |    |    |            |   |          |    |  |           |    |          |    |    |

| Stand          | Level 4 Cover Type        | Size Density      | Acres | Stand Age | BA Range           | Managed Site | General Comments  |   |              |
|----------------|---------------------------|-------------------|-------|-----------|--------------------|--------------|---|---|--------------|
| 32             | 42110 - Planted Red Pine  | Poletimber Medium | 10.3  | 87        | 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 = 82Much 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. |   |              |
| Canopy Species | % Cover                   | Size Class        | DBH   | Age       | Sub-Canopy Species | Density      |   | Avg. Height   | Size         |
| Red Pine       | 94                        |                   | 10    | 87        | Red Maple          | Low          |   | 10 - 20 feet  | 10 - 20 feet |
| White Pine     | 6                         |                   | 10    |           |                    |              |   |   |              |
| 33             | 42220 - Natural Jack Pine | Poletimber Medium | 16.6  | 70        |                    | 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.                         |   |              |
| Canopy Species | % Cover                   | Size Class        | DBH   | Age       |                    |              |   |   |              |
| Red Pine       | 20                        |                   | 15    |           |                    |              |   |   |              |
| Jack Pine      | 70                        | Seedling          | 8     | 70        |                    |              |   |   |              |
|                | White Pine                | 10                |       | 15        |                    |              |   |   |              |
| 34             | 42220 - Natural Jack Pine | Sapling Well      | 43.4  | 32        | Immature           | N/A          | Jackpine clearcut in '89 leave all oak. "Shelldrake 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.  |   |              |
| Canopy Species | % Cover                   | Size Class        | DBH   | Age       |                    |              |   |   |              |
| Red Oak        | 2                         | Seedling          | 8     |           |                    |              |   |   |              |
| Jack Pine      | 98                        | Log               | 2     | 32        |                    |              |   |   |              |
| 35             | 42220 - Natural Jack Pine | Poletimber Well   | 69.8  | 60        | 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.  |   |              |
| Canopy Species | % Cover                   | Size Class        | DBH   | Age       |                    |              |   |   |              |
| Jack Pine      | 98                        | Seedling          | 8     | 60        |                    |              |   |   |              |
| Red Pine       | 1                         | Seedling          | 8     |           |                    |              |   |   |              |
|                | White Pine                | 1                 |       | Seedling  | 8                  |              |   |   |              |
| 36             | 42210 - Natural Red Pine  | Sawtimber Poor    | 30.0  | 86        | 51-80              | N/A          | Filling in with jack pine between red pine residuals. Canopy is technically red pine but they are lower in density. Some areas east of Vermillion Road with low regeneration (mostly advanced regeneration before cut). Few jack pine seedlings. Occasional oak.  |   |              |
| Canopy Species | % Cover                   | Size Class        | DBH   | Age       | Sub-Canopy Species | Density      |   | Avg. Height   | Size         |
| White Pine     | 10                        |                   | 12    |           | White Pine         | Low          |   | Variable  | Variable     |
| Red Pine       | 90                        |                   | 11    | 86        | Red Oak            | Low          |   | Variable  | Variable     |
|                |                           |                   |       |           | Red Maple          | Low          | 10 - 20 feet  | 10 - 20 feet  |              |
|                |                           |                   |       |           | Jack Pine          | Low          | Variable  | Variable  |              |
|                |                           |                   |       |           |                    |              |   | 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. Scarification completed August, 2008 (FTP42-696). Regeneration check in summer 2012: WP = 55 RP = 27 TPA = 82.RETENTION: Edge of the eastern stand left untrenched by the intersection. Leaving for aesthetics due to small size and location. |              |



| Stand | Level 4 Cover Type         | Size Density     | Acres | Stand Age | BA Range | Managed Site | General Comments   |
|-------|----------------------------|------------------|-------|-----------|----------|--------------|--|
| 37    | 4222 - Natural Jack Pine   | Unspecified      | 30.0  | 8         |          |              | 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.  |
| 38    | 42290 - Natural Mixed Pine | Sawtimber Poor   | 8.6   | 30        | 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.  |
|       |                            |                  |       |           |          |              |  |
| 39    | 4122 - Oak, Pine           | Sawtimber Poor   | 12.3  | 80        | 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.  |
|       |                            |                  |       |           |          |              |  |
| 40    | 42250 - Pine, Oak          | Sawtimber Medium | 66.4  | 80        | 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. |
|       |                            |                  |       |           |          |              |  |

| Stand | Level 4 Cover Type                     | Size Density    | Acres | Stand Age | BA Range    | Managed Site | General Comments  |
|-------|--|-----------------|-------|-----------|-------------|--------------|---|
| 41    | 4222 - Natural Jack Pine               | Unspecified     | 5.3   | 5         | 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. |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
| 42    | 42290 - Natural Mixed Pine             | Sawtimber Well  | 20.6  | 86        | 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.   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
| 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  | 110       | 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.   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
| 46    | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 6.3   | 90        |             | 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.   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |
|       |  |                 |       |           |             |              |   |



| Stand | Level 4 Cover Type        | Size Density     | Acres | Stand Age | BA Range | Managed Site | General Comments   |
|-------|---------------------------|------------------|-------|-----------|----------|--------------|--|
| 47    | 42220 - Natural Jack Pine | Unspecified      | 89.0  | 21        | 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  | 16        | 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  | 95        | 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  | 9         | 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.<br><br>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  | 98        | 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  |             |             |
|--------------------|--|----------------|----------|-----------|--------------------|--------------|---|-------------|-------------|
| 52                 | 42120 - Planted Jack Pine                  | Sapling Medium | 39.5     | 14        | 1-50               | N/A          | 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. |             |             |
| Canopy Species     | % Cover                                    | Size Class     | DBH      | Age       | Sub-Canopy Species | Density      |   | Avg. Height | Size        |
| Jack Pine          | 100  | Pole           | 4        | 14        | Red Pine           | Medium       |   | >20 feet    | >20 feet    |
|                    |  |                |          |           | White Pine         | Medium       |   | 5 - 10 feet | 5 - 10 feet |
| 53                 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 20.9     | 105       | 51-80              | N/A          | 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   |             |             |
| Canopy Species     | % Cover                                    | Size Class     | DBH      | Age       | Sub-Canopy Species | Density      |   | Avg. Height | Size        |
| Bigtooth Aspen     | 5  |                | 12       |           | Balsam Fir         | Medium       |   | Variable    | Variable    |
| Red Maple          | 25   |                | 10       |           | Red Maple          | Full         |   | Variable    | Variable    |
| White Spruce       | 30   |                | 12       | 105       |                    |              |   |             |             |
| Balsam Fir         | 5  | Seedling       | 8        |           |                    |              |   |             |             |
| Paper Birch        | 35   |                | 12       | 105       |                    |              |   |             |             |
| 54                 | 4222 - Natural Jack Pine                   | Unspecified    | 44.3     | 4         | Unspecified        |              | 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.   |             |             |
| Sub-Canopy Species | Density                                    | Avg. Height    | Size     |           |                    |              |   |             |             |
| Black Spruce       | Low  | < 5 feet       | < 5 feet |           |                    |              |   |             |             |
| Jack Pine          | Low  | < 5 feet       | < 5 feet |           |                    |              |   |             |             |
| Red Pine           | Low  | >20 feet       | >20 feet |           |                    |              |   |             |             |
| 56                 | 623 - Emergent Wetland                     | None           | 7.0      |           |                    | No           | Some scattered timber. Deep water and bog species, typical for the area.  |             |             |
| 57                 | 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   |                |                    |             |
|-----------------------|----------------------------|------------------|-------------------|------------|------------|---------------------------|--|----------------|--------------------|-------------|
| 58                    | 42290 - Natural Mixed Pine | Sawtimber Medium | 14.3              | 86         | 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.  |                |                    |             |
| <b>Canopy Species</b> |                            | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Sub-Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Jack Pine             |                            | 1                | Seedling          | 8          |            | Red Maple                 |  | Low            | Variable           | Variable    |
| Red Pine              |                            | 40               |                   | 10         | 86         | Red Oak                   |  | Medium         | Variable           | Variable    |
| Paper Birch           |                            | 2                | Seedling          | 5          |            | White Pine                |  | Low            | < 5 feet           | < 5 feet    |
| White Pine            |                            | 42               |                   | 12         | 86         |                           |  |                |                    |             |
| Red Oak               |                            | 15               | Seedling          | 8          |            |                           |  |                |                    |             |
| 59                    | 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.  |                |                    |             |
| 62                    | 42210 - Natural Red Pine   | Sawtimber Well   | 91.3              | 95         | 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. |                |                    |             |
| <b>Canopy Species</b> |                            | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Sub-Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Red Pine              |                            | 62               |                   | 12         | 95         | Red Maple                 |  | Low            | Variable           | Variable    |
| Red Oak               |                            | 2                | Seedling          | 8          |            | White Pine                |  | Low            | Variable           | Variable    |
| White Pine            |                            | 36               |                   | 10         |            | White Spruce              |  | Low            | Variable           | Variable    |
|                       |                            |                  |                   |            |            | Red Oak                   |  | Low            | Variable           | Variable    |
| 63                    | 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.  |                |                    |             |
| 64                    | 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.  |                |                    |             |
| 65                    | 42210 - Natural Red Pine   | Sawtimber Medium | 48.2              | 103        | 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   |                |                    |             |
| <b>Canopy Species</b> |                            | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Sub-Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Red Pine              |                            | 90               |                   | 12         | 103        | Black Spruce              |  | Low            | Variable           | Variable    |
| White Pine            |                            | 8                |                   | 12         |            | White Pine                |  | Low            | Variable           | Variable    |
| Paper Birch           |                            | 2                | Seedling          | 8          |            | Red Maple                 |  | Low            | Variable           | Variable    |

| Stand  | Level 4 Cover Type                       | Size Density     | Acres    | Stand Age  | BA Range | Managed Site | General Comments   |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|--|--|------------------|----------|------------|----------|--------------|--|--------------|----|----------|----|----|------------|----|----------|----|----|------------|----|----------|----|-----|--|----|--------------------|---------|-------------|--------------|-----------|----------|----------|----------|----------------------|-----|----------|----------|--|--------------|----|--|----|--|--|--|--------------------|---------|-------------|------|-----------|-----|----------|----------|--------------|--------|----------|----------|
| 66   | 42210 - Natural Red Pine                 | Sawtimber Medium | 11.4     | 103        | 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.  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Spruce</td><td>2</td><td>Seedling</td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>75</td><td></td><td>12</td><td>103</td></tr><tr><td>Jack Pine</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Black Spruce</td><td>3</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Paper Birch</td><td>3</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr></table>             |  | Canopy Species   | % Cover  | Size Class | DBH      | Age          |  | White Spruce | 2  | Seedling | 9  |    | Red Maple  | 2  | Seedling | 8  |    | Red Pine   | 75 |          | 12 | 103 | Jack Pine  | 5  |                    | 9       |             | Black Spruce | 3         | Seedling | 6        |          | Paper Birch          | 3   | Seedling | 6        |  | White Pine   | 10 |  | 12 |  | <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table> |  | Sub-Canopy Species | Density | Avg. Height | Size | Red Maple | Low | Variable | Variable | Black Spruce | Medium | Variable | Variable |
| Canopy Species   | % Cover                                  | Size Class       | DBH      | Age        |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| White Spruce   | 2  | Seedling         | 9        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Maple  | 2  | Seedling         | 8        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Pine   | 75                                       |                  | 12       | 103        |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Jack Pine  | 5  |                  | 9        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Black Spruce   | 3  | Seedling         | 6        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Paper Birch  | 3  | Seedling         | 6        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| White Pine   | 10                                       |                  | 12       |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Sub-Canopy Species   | Density                                  | Avg. Height      | Size     |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Maple  | Low                                      | Variable         | Variable |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Black Spruce   | Medium                                   | Variable         | Variable |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| 68   | 42290 - Natural Mixed Pine               | Sawtimber Medium | 27.5     | 80         | 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.<br><br>"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. |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>30</td><td></td><td>10</td><td></td></tr><tr><td>Red Pine</td><td>50</td><td></td><td>10</td><td>80</td></tr><tr><td>Jack Pine</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr></table>   |  | Canopy Species   | % Cover  | Size Class | DBH      | Age          |  | White Pine   | 30 |          | 10 |    | Red Pine   | 50 |          | 10 | 80 | Jack Pine  | 20 | Seedling | 6  |     | <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>   |    | Sub-Canopy Species | Density | Avg. Height | Size         | Jack Pine | High     | Variable | Variable |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Canopy Species   | % Cover                                  | Size Class       | DBH      | Age        |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| White Pine   | 30                                       |                  | 10       |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Pine   | 50                                       |                  | 10       | 80         |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Jack Pine  | 20                                       | Seedling         | 6        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Sub-Canopy Species   | Density                                  | Avg. Height      | Size     |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Jack Pine  | High                                     | Variable         | Variable |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| 70   | 500 - Water                              | None             | 3.3      |            |          | No           | River oxbow with floodplain filled with drying trees in the bottom - A nice scenic spot.   |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| 71   | 6131 - Hemlock, White Pine, Maple, Birch | Poletimber Well  | 7.7      | 90         | 51-80    | N/A          | Oxbow areas and lowlands along Shelldrake River. Very low flood plain with a mix of species. Many trees dying from seasonal flooding.  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>25</td><td>Seedling</td><td>8</td><td>90</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>12</td><td></td><td>12</td><td></td></tr><tr><td>Paper Birch</td><td>25</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>3</td><td></td><td>12</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Black Spruce</td><td>15</td><td></td><td>9</td><td></td></tr></table> |  | Canopy Species   | % Cover  | Size Class | DBH      | Age          |  | Red Maple    | 25 | Seedling | 8  | 90 | Balsam Fir | 10 | Seedling | 8  |    | White Pine | 12 |          | 12 |     | Paper Birch  | 25 | Seedling           | 8       |             | Red Pine     | 3         |          | 12       |          | Northern White Cedar | 10  | Seedling | 6        |  | Black Spruce | 15 |  | 9  |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Canopy Species   | % Cover                                  | Size Class       | DBH      | Age        |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Maple  | 25                                       | Seedling         | 8        | 90         |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Balsam Fir   | 10                                       | Seedling         | 8        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| White Pine   | 12                                       |                  | 12       |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Paper Birch  | 25                                       | Seedling         | 8        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Pine   | 3  |                  | 12       |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Northern White Cedar   | 10                                       | Seedling         | 6        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Black Spruce   | 15                                       |                  | 9        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| 74   | 42210 - Natural Red Pine                 | Sawtimber Medium | 6.1      | 87         | 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.  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| <table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>80</td><td></td><td>12</td><td>87</td></tr><tr><td>Red Oak</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>18</td><td></td><td>8</td><td></td></tr></table>   |  | Canopy Species   | % Cover  | Size Class | DBH      | Age          |  | Red Pine     | 80 |          | 12 | 87 | Red Oak    | 2  | Seedling | 8  |    | White Pine | 18 |          | 8  |     | <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Oak</td><td>Low</td><td>&gt;20 feet</td><td>&gt;20 feet</td></tr></table> |    | Sub-Canopy Species | Density | Avg. Height | Size         | Red Maple | Low      | Variable | Variable | Red Oak              | Low | >20 feet | >20 feet |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Canopy Species   | % Cover                                  | Size Class       | DBH      | Age        |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Pine   | 80                                       |                  | 12       | 87         |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Oak  | 2  | Seedling         | 8        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| White Pine   | 18                                       |                  | 8        |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Sub-Canopy Species   | Density                                  | Avg. Height      | Size     |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Maple  | Low                                      | Variable         | Variable |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| Red Oak  | Low                                      | >20 feet         | >20 feet |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
|  |  |                  |          |            |          |              |  |              |    |          |    |    |            |    |          |    |    |            |    |          |    |     |  |    |                    |         |             |              |           |          |          |          |                      |     |          |          |  |              |    |  |    |  |  |  |                    |         |             |      |           |     |          |          |              |        |          |          |
| 75   | 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  |