



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72291

Entry Year 2022

Acreage: 2,416

County Crawford

Management Area: Kirtland's Warbler

**Revision Date:** 2020-04-07

**Stand Examiner:** Derek Nellis

### Legal Description:

T28N R1W Sections 2, 3, 10, 11

### Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management. In addition, to maintain a healthy habitat for the endangered species *Dendroica kirtlandii* (Kirtland's Warbler), taking into account warbler management plan directives, species diversity, and visual management.

### Soil and topography:

The compartment's terrain is primarily outwash plains on Grayling Sands. The swamps and drainages are on organic soils (Tawas-Leafriver, Lupton, and AuSable-Bowstring Mucks).

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

The lands adjacent to the compartment are almost entirely in State ownership except for private property interface along the compartment's west edge. The compartment is part of the Lovells Kirtland's Warbler Management Unit, blocks 52, 53, 54 & a small corner of 47.

### Unique Natural Features:

In addition to Kirtland's Warbler habitat, the West Branch of Big Creek flows through the compartment. Several unique plant and animal species are associated with these areas.

### Archeological, Historical, and Cultural Features:

Old railroad grades cross through the area.

### Special Management Designations or Considerations:

The compartment is part of the Lovells Kirtland's Warbler Management Unit, a High Conservation Value Area (HCVA). The West Branch of Big Creek is also an HCVA, part of the AuSable's Natural Rivers designation.

### Watershed and Fisheries Considerations:

The West Branch of Big Creek and a tributary to the Middle Branch of Big Creek flow through the compartment.

### Wildlife Habitat Considerations:

Management per the Kirtland's Warbler plan not only benefits the warbler, but also provides habitat for other opening-dependent songbirds and white-tailed deer.

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

No known potential exists for commercial metallic mineral production in this part of the state. The closest active sand/gravel pit is more than three miles to the southwest. Sand & gravel potential appears to be good in the compartment, but a shallow water table and/or wetlands could inhibit development in places. Antrim Shale gas production is occurring around much of the compartment, but no wells have been drilled within the compartment to date. There is good potential for Antrim gas within the compartment, but current low gas prices will likely prevent completion of new wells in the area for the foreseeable future. There is no known hydrocarbon potential from other formations within the compartment, and there is no active mineral leasing in the compartment.

### Vehicle Access:

County roads include CR 612, Walsh Road, Boondocks Road, M.B. Extension and Big Creek Trail. The snowmobile trails and state forest two-tracks provide additional access.

### Survey Needs:

None

### Recreational Facilities and Opportunities:

Designated snowmobile trail 47 occurs southwest of Walsh Road. The area is used by area residents / visitors for hunting, birdwatching, dispersed camping, and orv use on open forest roads.

**Fire Protection:**

The compartment has jack pine in rotation for Kirtland's Warbler habitat. Several mature jack pine stands are proposed for harvest. Vehicle access is good along existing roads, and the stream and lowland types serve as fuelbreaks. The West Branch of Big Creek is the closest water source.

**Additional Compartment Information:**

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

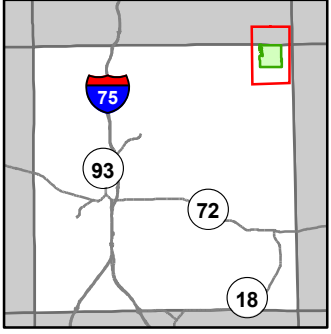
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

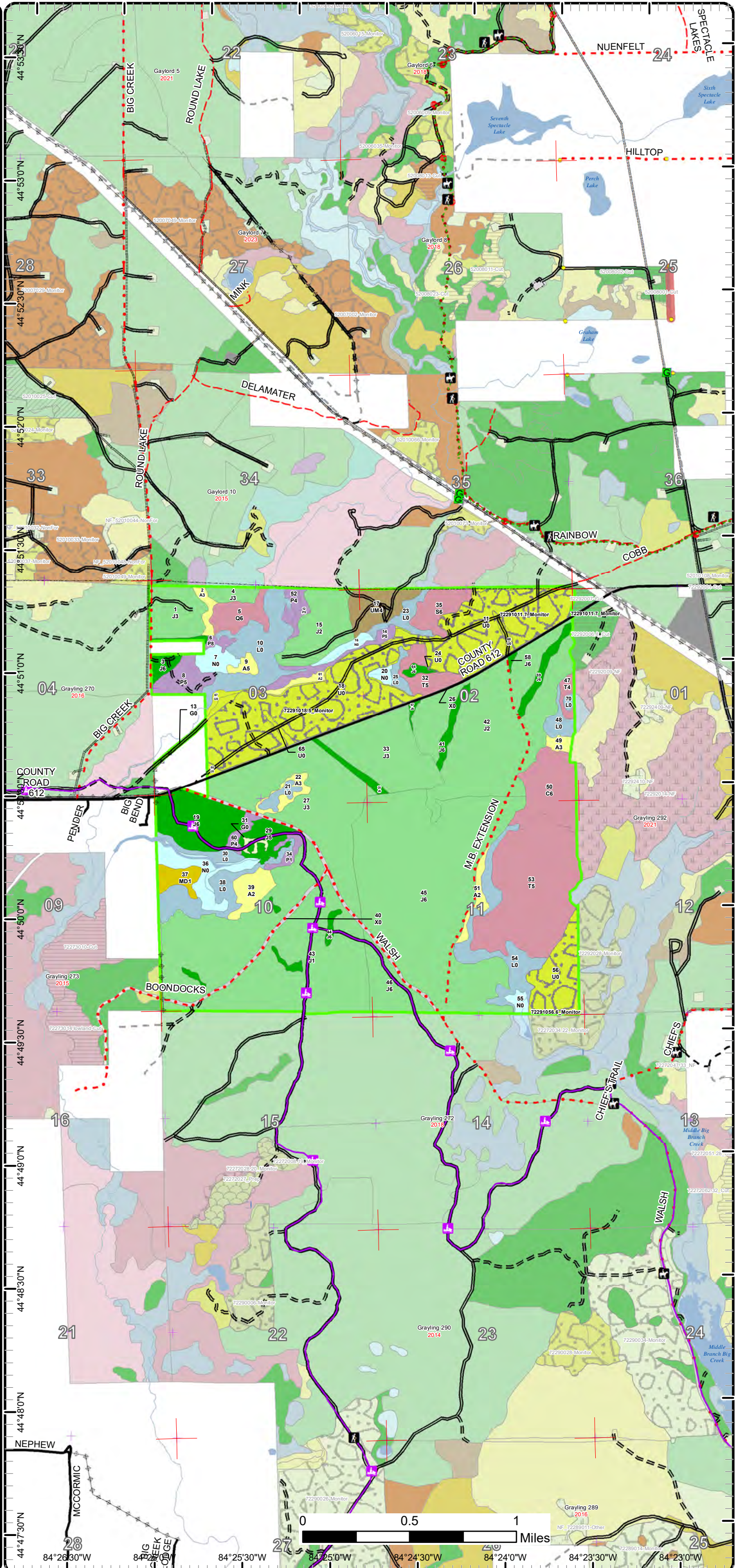
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 291  
 T28N, R01W, Sec. 2, 3, 10, & 11  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2022  
 Acres: 2416.4 GIS Calculated  
 Examiner: Derek Nellis  
 Map Revised: 5/26/2021  
 Map Phase: Post-Review

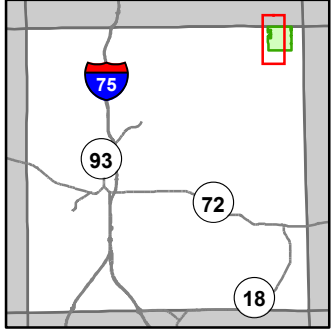


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
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- == DNR - Forest Access Route
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- Fence
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- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

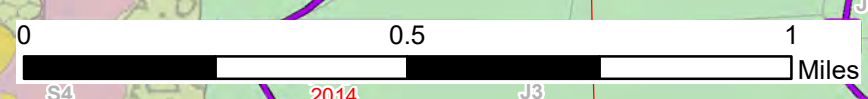
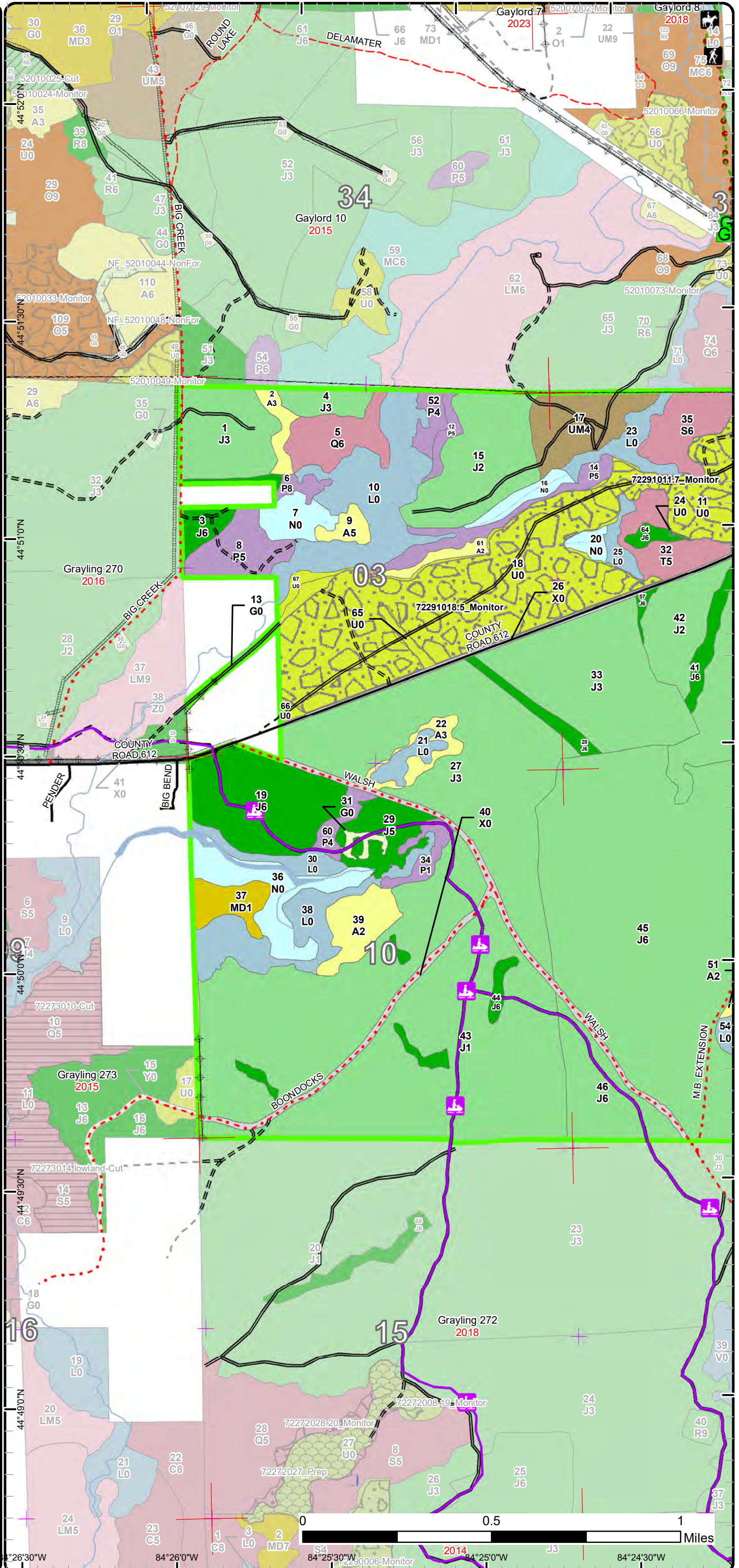


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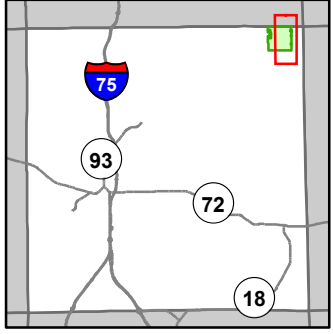
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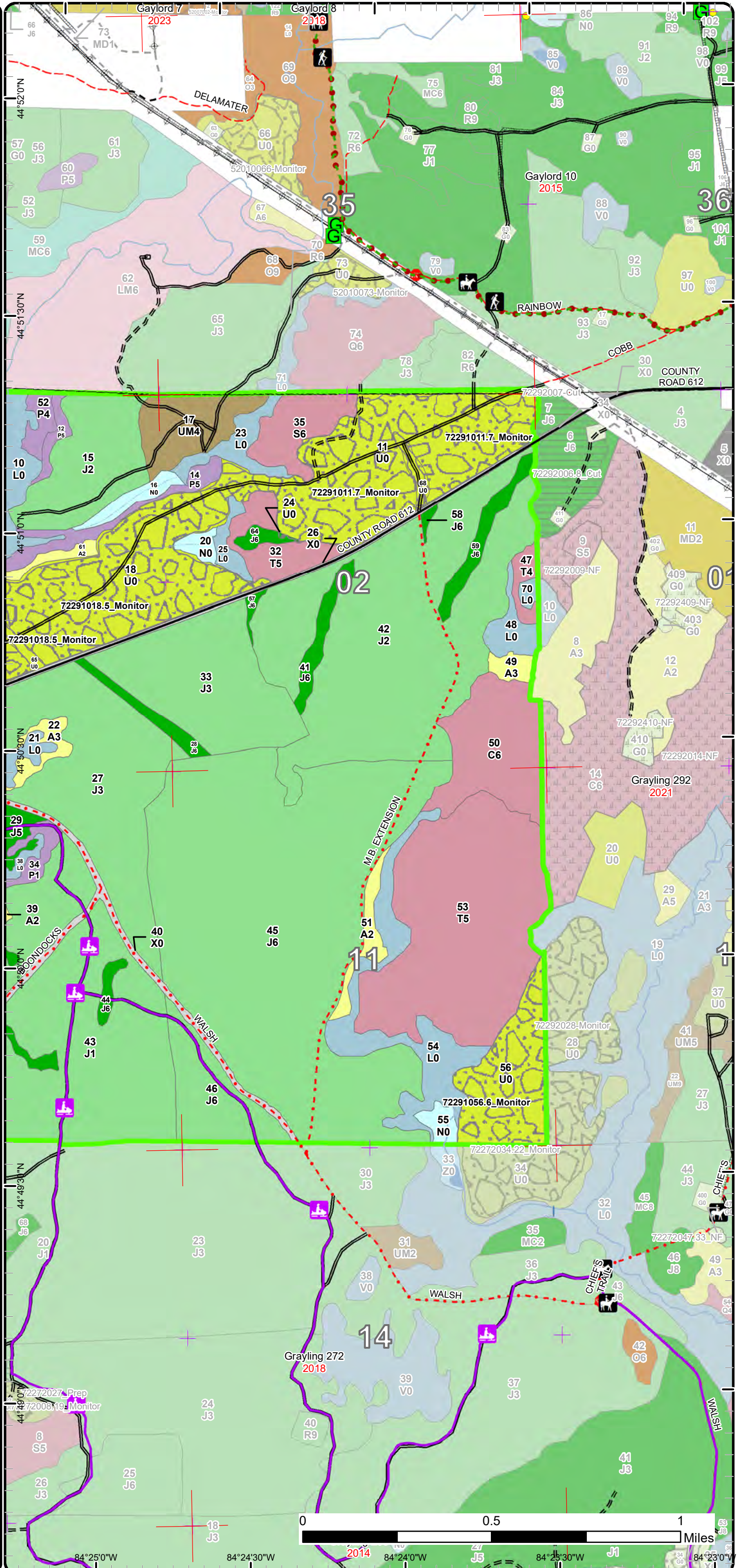
84°26'30"W 84°25'30"W 84°24'30"W

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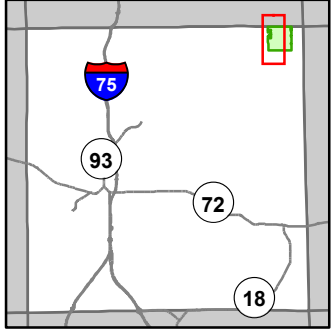


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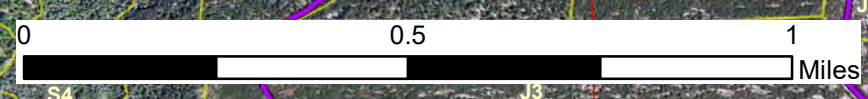
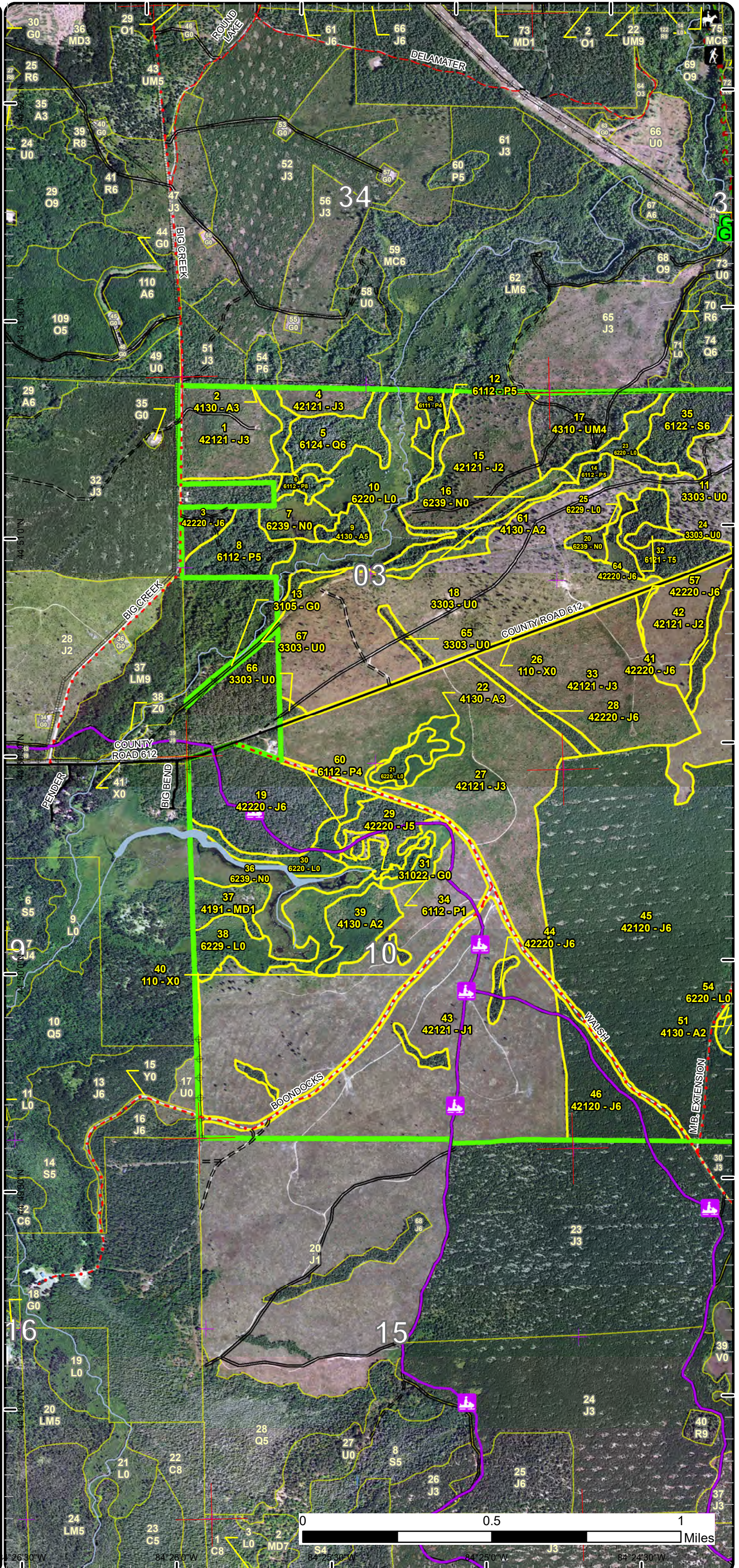


# Stand Boundary Map

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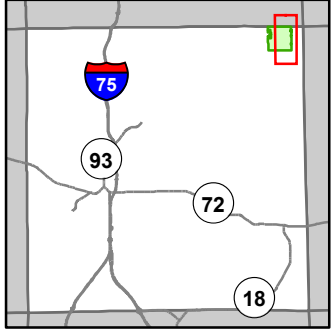
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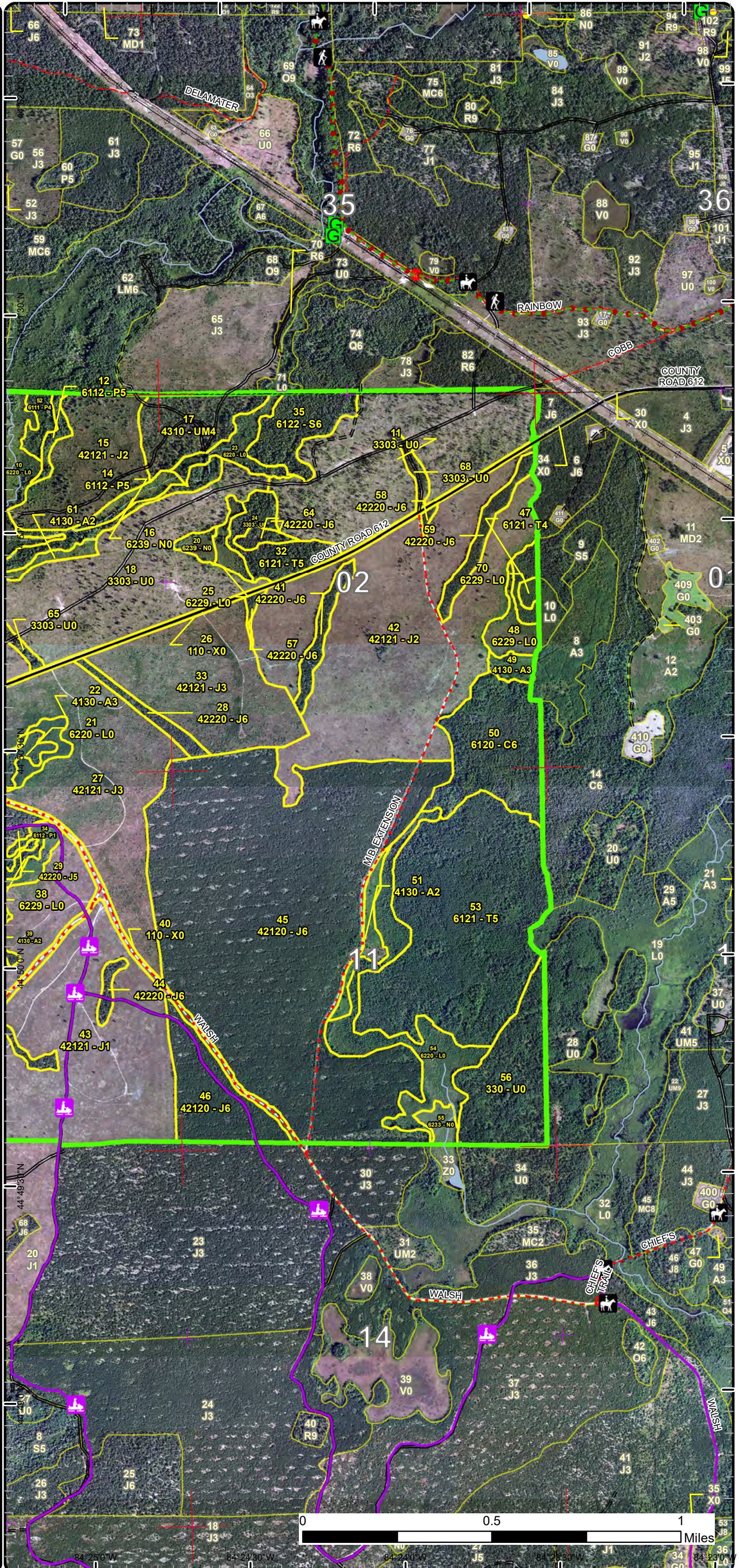
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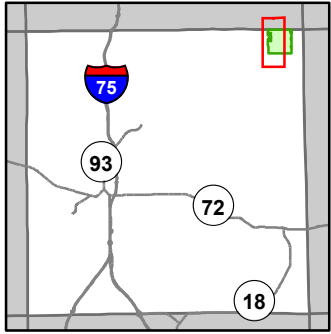


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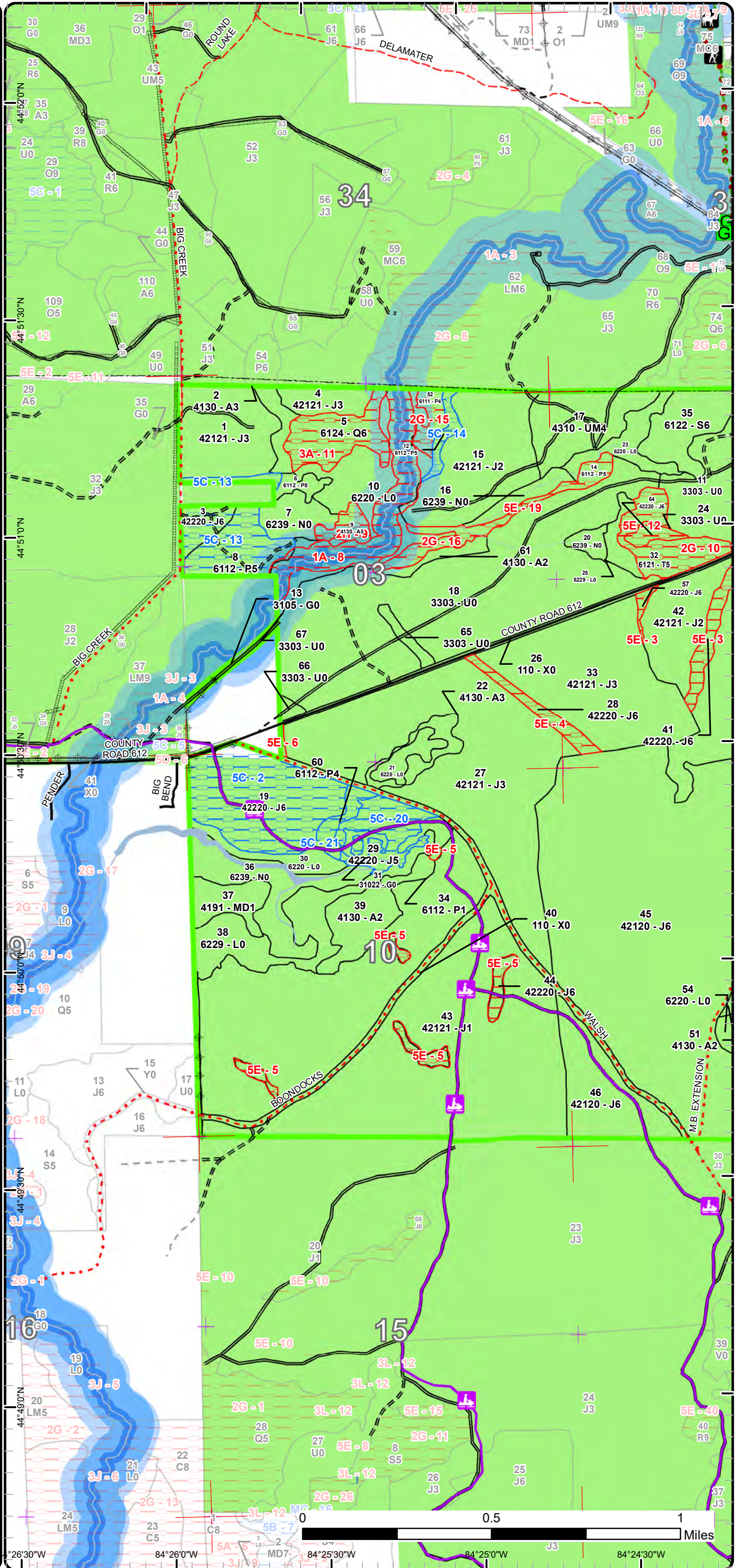


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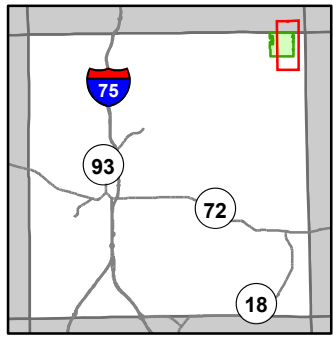
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



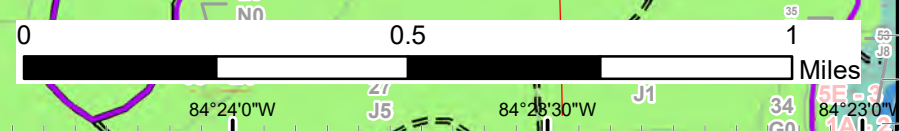
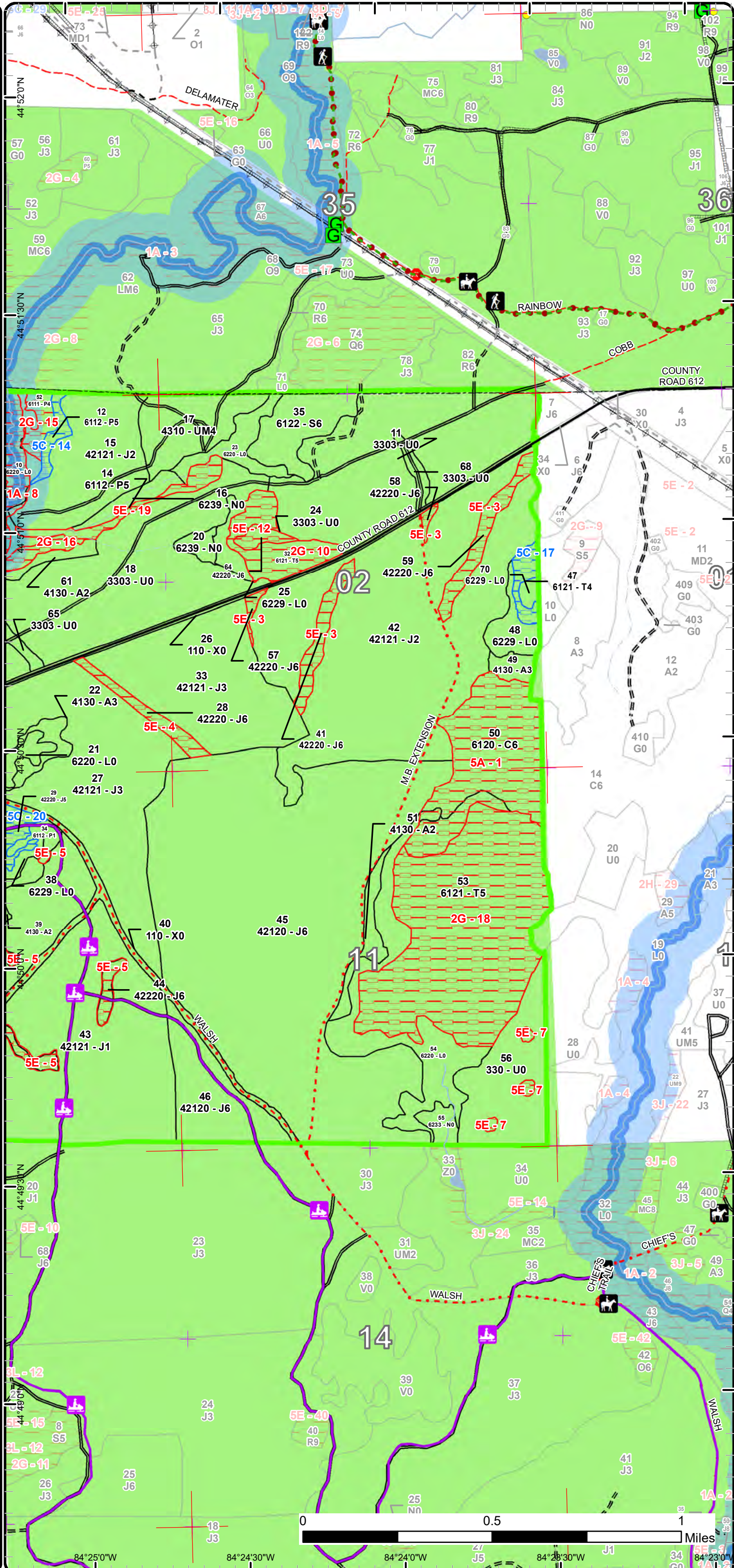


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- Compartment Boundary
- Available w/ Constraints
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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

|                             | Non-Forest | 0-9        | 10-19      | 20-29     | 30-39      | 40-49    | 50-59      | 60-69      | 70-79     | 80-89    | 90-99    | 100-109   | 110-119  | 120-129  | 130-139  | 140-149  | 150+     | Uneven-Aged | Total       |
|-----------------------------|------------|------------|------------|-----------|------------|----------|------------|------------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen                       | 0          | 19         | 15         | 18        | 0          | 0        | 6          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 58          |
| Cedar                       | 0          | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 52        | 0        | 0        | 0        | 0        | 0        | 0           | 52          |
| Herbaceous Openland         | 5          | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 5           |
| Jack Pine                   | 0          | 522        | 326        | 0         | 374        | 0        | 0          | 129        | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 1350        |
| Low-Density Trees           | 345        | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 345         |
| Lowland Aspen/Balsam Poplar | 0          | 8          | 0          | 0         | 0          | 6        | 40         | 10         | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 64          |
| Lowland Conifers            | 0          | 0          | 0          | 0         | 0          | 0        | 0          | 21         | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 21          |
| Lowland Shrub               | 182        | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 182         |
| Lowland Spruce/Fir          | 0          | 0          | 0          | 0         | 0          | 0        | 0          | 23         | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 23          |
| Marsh                       | 58         | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 58          |
| Mixed Upland Deciduous      | 0          | 0          | 0          | 13        | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 13          |
| Tamarack                    | 0          | 0          | 0          | 0         | 0          | 0        | 148        | 0          | 26        | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 174         |
| Upland Mixed Forest         | 0          | 0          | 29         | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 29          |
| Urban                       | 42         | 0          | 0          | 0         | 0          | 0        | 0          | 0          | 0         | 0        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0           | 42          |
| <b>Total</b>                | <b>632</b> | <b>549</b> | <b>370</b> | <b>31</b> | <b>374</b> | <b>6</b> | <b>194</b> | <b>183</b> | <b>26</b> | <b>0</b> | <b>0</b> | <b>52</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>    | <b>2416</b> |



## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 291

Total Compartment Acres: 2,416

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

### Proposed and Next Step Treatments by Method

|              | Harvest  | Site Prep | Planting | Seeding  | Burning  | Pesticide | Monitoring | Other    | Non-Forest Mgt. | Total Acres |
|--------------|----------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current      | 0        | 0         | 0        | 0        | 0        | 0         | 321        | 0        | 0               | 321         |
| <b>Total</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>321</b> | <b>0</b> | <b>0</b>        | <b>321</b>  |



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

**Approved Treatments:**

|   |                     |       |                                |            |   |              |            |                              |                          |           |    |
|---|---------------------|-------|--------------------------------|------------|---|--------------|------------|------------------------------|--------------------------|-----------|----|
| 11  | 72291011.7_M onitor | 109.7 | 3303 - Mixed Low Density Trees | Nonstocked | 0 |              | Monitoring | Natural Regen (Re-Inventory) | 4129 - Mixed Oak         | Even-Aged | No |
| <p><u>Prescription</u> Monitor regen<br/><u>Specs:</u><br/><u>Next Step</u><br/><u>Treatments:</u><br/><u>Acceptable</u> Jack pine with oak meeting minimum stocking levels.<br/><u>Regen:</u><br/><u>Other</u> Percent to Treat = 100%Cover type objective was changed per pre-review meeting on June 25th, 2020.<br/><u>Comment:</u><br/><u>Site Condition</u><br/><u>Proposed Start Date:</u> 2 /13/2020</p> |                     |       |                                |            |   |              |            |                              |                          |           |    |
| 18  | 72291018.5_M onitor | 164.4 | 3303 - Mixed Low Density Trees | Nonstocked | 0 | Unspec ified | Monitoring | Artificial Regen(3yr)        | 4212 - Planted Jack Pine | Even-Aged | No |
| <p><u>Prescription</u> check regen<br/><u>Specs:</u><br/><u>Next Step</u><br/><u>Treatments:</u><br/><u>Acceptable</u> KW nesting habitat<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> 10/1 /2021</p>   |                     |       |                                |            |   |              |            |                              |                          |           |    |
| 56  | 72291056.6_M onitor | 47.0  | 330 - Low-Density Trees        | Nonstocked | 0 |              | Monitoring | Natural Regen (Intermediate) | 413 - Aspen              | Even-Aged | No |
| <p><u>Prescription</u> Monitor regeneration<br/><u>Specs:</u><br/><u>Next Step</u><br/><u>Treatments:</u><br/><u>Acceptable</u> Mixed aspen conifer/deciduous<br/><u>Regen:</u><br/><u>Other</u><br/><u>Comment:</u><br/><u>Site Condition</u><br/><u>Proposed Start Date:</u> 10/1 /2023</p>   |                     |       |                                |            |   |              |            |                              |                          |           |    |

**Total Treatment Acreage Proposed: 321.1**

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 291  
Year of Entry: 2022

### Availability for Management

| Total Acres | Acres Available | Acres Available With Condition | Acres Not Available |
|-------------|-----------------|--------------------------------|---------------------|
| 58          | 52              | 0                              | 6                   |
| 52          | 0               | 0                              | 52                  |
| 5           | 5               | 0                              | 0                   |
| 1352        | 1220            | 85                             | 46                  |
| 345         | 342             | 0                              | 2                   |
| 64          | 11              | 32                             | 22                  |
| 21          | 0               | 0                              | 21                  |
| 182         | 150             | 0                              | 32                  |
| 23          | 23              | 0                              | 0                   |
| 58          | 58              | 0                              | 0                   |
| 13          | 13              | 0                              | 0                   |
| 173         | 0               | 6                              | 168                 |
| 29          | 29              | 0                              | 0                   |
| 42          | 42              | 0                              | 0                   |
| 2,416       | 1,946           | 123                            | 348                 |
|             | 81%             | 5%                             | 14%                 |

### Dominant Site Conditions

|                             | Availability for Management |                                |                     | Dominant Site Conditions |    |     |    |    |    |    |    |  |
|-----------------------------|-----------------------------|--------------------------------|---------------------|--------------------------|----|-----|----|----|----|----|----|--|
|                             | Acres Available             | Acres Available With Condition | Acres Not Available | 5C                       | 1A | 2G  | 2H | 3A | 5A | 5D | 5E |  |
| Aspen                       | 52                          | 0                              | 6                   |                          |    |     | 6  |    |    |    |    |  |
| Cedar                       | 0                           | 0                              | 52                  |                          |    |     |    |    | 52 |    |    |  |
| Herbaceous Openland         | 5                           | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| Jack Pine                   | 1220                        | 85                             | 46                  | 85                       | 0  |     |    |    |    | 0  | 46 |  |
| Low-Density Trees           | 342                         | 0                              | 2                   |                          |    |     |    |    |    |    | 2  |  |
| Lowland Aspen/Balsam Poplar | 11                          | 32                             | 22                  | 32                       | 0  | 15  |    |    |    |    | 6  |  |
| Lowland Conifers            | 0                           | 0                              | 21                  |                          | 0  |     |    | 21 |    |    |    |  |
| Lowland Shrub               | 150                         | 0                              | 32                  |                          | 31 |     |    |    | 1  |    |    |  |
| Lowland Spruce/Fir          | 23                          | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| Marsh                       | 58                          | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| Mixed Upland Deciduous      | 13                          | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| Tamarack                    | 0                           | 6                              | 168                 | 6                        |    | 157 |    |    | 10 |    |    |  |
| Upland Mixed Forest         | 29                          | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| Urban                       | 42                          | 0                              | 0                   |                          |    |     |    |    |    |    |    |  |
| <b>Total Forested Acres</b> | <b>1,946</b>                | <b>123</b>                     | <b>348</b>          | <b>123</b>               | 32 | 173 | 6  | 21 | 63 | 0  | 54 |  |
| <b>Relative Percent</b>     | <b>81%</b>                  | <b>5%</b>                      | <b>14%</b>          |                          |    |     |    |    |    |    |    |  |

*\*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                     | 5A: Not able to obtain desirable regeneration                                | 63    | 5F: Evaluated for Forest Health Considerations | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |  |       |  |                      |                      |                      |
| 2                | Available                       | 5C: Delay treatment for age/size class diversity or exceptional site quality | 56    | Unspecified                                    | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |  |       |  |                      |                      |                      |

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 291  
Year of Entry: 2022

|   |             |  |    |   |             |             |             |
|---|-------------|--|----|---|-------------|-------------|-------------|
| 3   | Unavailable | 5E: Long-Term Retention  | 23 | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Retention left in KW harvest #035-11.                                     |             |  |    |   |             |             |             |
| 4   | Unavailable | 5E: Long-Term Retention  | 7  | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Vortice island retention left in surrounding KW harvest #051-12.          |             |  |    |   |             |             |             |
| 5   | Unavailable | 5E: Long-Term Retention  | 12 | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |   |             |             |             |
| 6   | Unavailable | 5E: Long-Term Retention  | 1  | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |   |             |             |             |
| 7   | Unavailable | 5E: Long-Term Retention  | 2  | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |   |             |             |             |
| 8   | Unavailable | 1A: Federal/State/Local Law  | 32 | Unspecified                                       | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>West Branch of Big Creek's Natural River 150-foot restricted cutting zone |             |  |    |   |             |             |             |
| 9   | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 6  | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Upland stand isolated by lowlands & streams.                              |             |  |    |   |             |             |             |

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 291  
Year of Entry: 2022

|   |             |  |    |             |             |             |             |
|---|-------------|--|----|-------------|-------------|-------------|-------------|
| 10  | Unavailable | 2G: Too wet (sensitive soils, does not include access issues)                | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |             |             |             |             |
| 11  | Unavailable | 3A: Conservation Values incompatible with harvest at this time               | 21 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |             |             |             |             |
| 12  | Unavailable | 5E: Long-Term Retention  | 4  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |             |             |             |             |
| 13  | Available   | 5C: Delay treatment for age/size class diversity or exceptional site quality | 32 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |             |             |             |             |
| 14  | Available   | 5C: Delay treatment for age/size class diversity or exceptional site quality | 5  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Narrow stand on sideslope down to the floodplain. |             |  |    |             |             |             |             |
| 15  | Unavailable | 2G: Too wet (sensitive soils, does not include access issues)                | 6  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |             |  |    |             |             |             |             |

## Report 4 – Site Conditions

Grayling Mgt. Unit  
Derek Nellis : Examiner

Compartment: 291  
Year of Entry: 2022

|                  |                    |   |     |             |             |             |             |
|------------------|--------------------|---|-----|-------------|-------------|-------------|-------------|
| 16               | <b>Unavailable</b> | <b>2G: Too wet (sensitive soils, does not include access issues)</b>                | 9   | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |
| 17               | <b>Available</b>   | <b>5C: Delay treatment for age/size class diversity or exceptional site quality</b> | 6   | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |
| 18               | <b>Unavailable</b> | <b>2G: Too wet (sensitive soils, does not include access issues)</b>                | 138 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |
| 19               | <b>Unavailable</b> | <b>5E: Long-Term Retention</b>  | 5   | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |
| 20               | <b>Available</b>   | <b>5C: Delay treatment for age/size class diversity or exceptional site quality</b> | 18  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |
| 21               | <b>Available</b>   | <b>5C: Delay treatment for age/size class diversity or exceptional site quality</b> | 6   | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b> |                    |   |     |             |             |             |             |



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

| Conservation Area | Type                        | Description   |
|-------------------|-----------------------------|---|
| SCA               | Cold Water Lake             | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.                                   |
| SCA               | Cold Water Stream           | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.   |
| SCA               | Riparian Area               | A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.          |
| HCVA              | Designated Critical Habitat | Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat. |
| HCVA              | Natural Rivers              | There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.   |



| Stand                | Level 4 Cover Type                         | Size Density  | Acres          | Stand Age | BA Range   | Managed Site | General Comments   |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
|----------------------|--|---|----------------|-----------|------------|--------------|--|------------------|----|----------|----|----|------------------|----|--------------|---|----|------------------|----|--------------|---|----|--|--------------------|----------|-------------|------|--|--------------------|----------|-------------|---------------|------------|----------|--------------|------------|---------------|----------|-------------|------------|-----------|--------|----------|------------|--|--|--|
| 1                    | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well  | 37.6           | 13        | Immature   | N/A          | Dense jack pine seems to be out competing mixed deciduous species. Cut in 2005 (TS 720520201). Trenched 2007 & planted 2008 (FTP C72-566). JP with NPO & cherry stump sprouts, small patches of A3. JP recruiting on its own at landings & skid routes. W 1/2 of stand has higher % tree cover than E, more oak & volunteer JP. JC update: passed Year 3 regen survey with a mix of planted JP and significant components of naturally recruited JP-O-A. Canopy updates based on the treatment reports & past inventory data, not a site visit.  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
|                      |  | <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>80</td> <td>Sapling</td> <td>1</td> <td>13</td> </tr> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Sapling</td> <td>2</td> <td>16</td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>2</td> <td>16</td> </tr> </tbody> </table>   | Canopy Species | % Cover   | Size Class | DBH          | Age  | Jack Pine        | 80 | Sapling  | 1  | 13 | Northern Pin Oak | 10 | Sapling      | 2 | 16 | Quaking Aspen    | 5  | Sapling      | 2 | 16 |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Jack Pine            | 80   | Sapling   | 1              | 13        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Northern Pin Oak     | 10   | Sapling   | 2              | 16        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Quaking Aspen        | 5  | Sapling   | 2              | 16        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| 2                    | 4130 - Aspen                               | Sapling Well  | 6.6            | 14        | Immature   | N/A          | Cut in 2006 (TS 720520201) by Inman F.P. A3 between upland JP plantations & swamp edge. Picks up a little tag alder swale to the NW.   |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
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| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Quaking Aspen        | 90   | Sapling   | 1              | 14        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Black Cherry         | 5  | Sapling   | 1              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Jack Pine            | 5  | Sapling   | 2              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| 3                    | 42220 - Natural Jack Pine                  | Poletimber Well   | 10.8           | 66        | 81-110     | N/A          | JP with scattered RP & very poor health/quality NPO. JP poles mostly in the 50's, with younger poles in 40's and a third component around 70 years. Individual stem mortality in the oldest JP. North polygon of stand is a narrow strip left uncut along the private when the rest of the type was harvested.   |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
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| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Northern Pin Oak     | 5  | Log/Pole  | 10             |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Red Pine             | 5  | Pole/Log  | 9              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Jack Pine            | 90   | Pole  | 7              | 66        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Sub-Canopy Species   | Density                                    | Avg. Height   | Size           |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Jack Pine            | Low  | Variable  | Sapling        |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Cherry (spp.)        | Low  | Variable  | Tall Shrub     |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Oak (spp.)           | Low  | Variable  | Sapling        |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| 4                    | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well  | 10.5           | 13        | Immature   | N/A          | Cut in 2006 (720520201). Trenched 2007 & planted 2008 (FTP C72-566). JP with NPO & cherry stump sprouts, pocket of A3 in SW corner near swamp. JC update: Passed Year 3 regen survey to a mix of planted JP and significant components of naturally recruited JP-O-A. Canopy updates based on the treatment reports & past inventory data, not a site visit.   |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
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| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Quaking Aspen        | 5  | Sapling   | 2              | 16        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Black Cherry         | 10   | Sapling   | 2              | 16        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Northern Pin Oak     | 5  | Sapling   | 2              | 16        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| 5                    | 6124 - Lowland Spruce-Fir                  | Poletimber Well   | 20.9           | 66        | 111-140    | N/A          | Swamp conifer stand was dominated by northern white cedar, but that is shifting toward black spruce. There has been & continues to be widespread decline & dieback in the cedar, with dead tops & thin crowns common, along with pockets of windthrow. Black spruce has been progressively filling in. The cedar mortality seems to be related to depth-to-watertable: the stand is on low ground that grades up onto slightly higher "low" ground, along with small upland inclusions, and the healthiest cedar tends to occur on that slightly higher ground. First age meta an ave between older & younger spruce overstory poles. There are also small pockets of trembling aspen. |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
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| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Quaking Aspen        | 5  | Pole  | 8              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Balsam Fir           | 10   | Pole/Sapling  | 6              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Black Spruce         | 45   | Pole/Sapling  | 7              | 66        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Northern White Cedar | 40   | Log/Pole  | 11             | 127       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Sub-Canopy Species   | Density                                    | Avg. Height   | Size           |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Balsam Fir           | Medium                                     | Variable  | Sapling        |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Black Spruce         | Medium                                     | Variable  | Sapling        |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Tag Alder            | Medium                                     | Variable  | Tall Shrub     |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| 6                    | 6112 - Lowland Aspen                       | Sawtimber Medium  | 4.1            | 62        | 81-110     | N/A          | Some wind throw of larger canopy trees. No recent beaver activity observed.<br><br>Decent aspen clones on slightly higher ground separated by sparser aspen on lower ground with tag alder swales. Bam & tamarack mixing in on the lowest ground, black spruce mixed in throughout. Some hypoxylon. Beaver cutting in the past on S edge.  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
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| Canopy Species       | % Cover                                    | Size Class  | DBH            | Age       |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Quaking Aspen        | 75   | Pole/Log  | 8              | 62        |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Balsam Poplar        | 5  | Pole/Log  | 8              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Black Spruce         | 15   | Pole/Sapling  | 7              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Tamarack             | 5  | Pole  | 7              |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Sub-Canopy Species   | Density                                    | Avg. Height   | Size           |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Tag Alder            | Medium                                     | 10 - 20 feet  | Tall Shrub     |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |
| Cherry (spp.)        | Medium                                     | 5 - 10 feet   | Tall Shrub     |           |            |              |  |                  |    |          |    |    |                  |    |              |   |    |                  |    |              |   |    |  |                    |          |             |      |  |                    |          |             |               |            |          |              |            |               |          |             |            |           |        |          |            |  |  |  |



| Stand | Level 4 Cover Type             | Size Density              | Acres | Stand Age      | BA Range           | Managed Site                               | General Comments  |            |
|-------|--------------------------------|---------------------------|-------|----------------|--------------------|--|---|------------|
| 7     | 6239 - Mixed Emergent Wetland  | Nonstocked                | 11.7  |                |                    | No   | Marsh grass rimmed with mostly salix, some L colonizing inward due to lower water levels. Significant drawdown (since 1998 imagery was taken) due to reduced beaver activity, and recently, drought. Feeder stream originates in this marsh and empties into the West Branch of Big Creek.  |            |
|       |                                | <b>Sub-Canopy Species</b> |       | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b>                                |   |            |
|       |                                | Bog Willow                |       | Low            |                    | Tall Shrub                                 |   |            |
|       |                                | Tag Alder                 |       | Low            |                    | Tall Shrub                                 |   |            |
| 8     | 6112 - Lowland Aspen           | Poletimber Medium         | 21.2  | 55             | 51-80              | N/A  | Multiple seeps/springs in the northwest part of the stand. Some saw size spruce and pine along these hydrologic features. Aspen starts on high ground along upland JP stand but, over short distance, grades down onto lower ground with tag alder swales, bam mixing in, and picks up lowland conifer where the swales finger down to the adjacent L/N. High ground inclusions along 2-track & PVT to S. JP small poles & scattered RP saw concentrated on the high ground (merchantable JP was cut in 1970). Scattered overmature pioneer aspen, but majority in 40's (cores hard to age). Some breaking up already occurring due to hypox, heart rot. SE edge within West Branch of Big Creek's Natural River buffer (150'). |            |
|       |                                | <b>Canopy Species</b>     |       | <b>% Cover</b> | <b>Size Class</b>  | <b>DBH</b>                                 |   | <b>Age</b> |
|       |                                | Quaking Aspen             |       | 65             | Pole               | 7  |   | 55         |
|       |                                | Balsam Poplar             |       | 5              | Pole/Log           | 8  |   |            |
|       |                                | Black Spruce              |       | 5              | Pole               | 7  |   |            |
|       |                                | Tamarack                  |       | 5              | Pole/Log           | 8  |   |            |
|       |                                | Red Pine                  |       | 5              | Log/Pole           | 12   |   |            |
|       |                                | Jack Pine                 |       | 15             | Pole               | 7  |   |            |
|       |                                | <b>Sub-Canopy Species</b> |       | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b>                                |   |            |
|       |                                | Balsam Fir                |       | Low            | Variable           | Sapling                                    |   |            |
|       |                                | Tag Alder                 |       | Medium         | 5 - 10 feet        | Tall Shrub                                 |   |            |
|       |                                | Cherry (spp.)             |       | Low            | Variable           | Tall Shrub                                 |   |            |
| 9     | 4130 - Aspen                   | Poletimber Medium         | 5.6   | 54             | 51-80              | N/A  | Island of high ground rising out of the floodplain, surrounded by L & streams (West Branch Big Creek to S & E), varying amount of beaver flooding. Trembling aspen cover being cut by beaver, small pockets of aspen regen occurring as a result. Mixed in are JP small poles & saps, a few RP saw & poor-quality NPO, along with RP, WP & NPO saps, Aspen core difficult to age. Aspen tends to be short and scraggly, impacted by black canker. Stand appears to have been accessed from the west before beaver flooding increased.   |            |
|       |                                | <b>Canopy Species</b>     |       | <b>% Cover</b> | <b>Size Class</b>  | <b>DBH</b>                                 |   | <b>Age</b> |
|       |                                | Quaking Aspen             |       | 85             | Pole/Log           | 7  |   | 54         |
|       |                                | Black Spruce              |       | 2              | Pole/Sapling       | 6  |   |            |
|       |                                | Red Pine                  |       | 3              | Log                | 18   |   |            |
|       |                                | Jack Pine                 |       | 10             | Pole               | 6  |   |            |
|       |                                | <b>Sub-Canopy Species</b> |       | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b>                                |   |            |
|       |                                | Quaking Aspen             |       | Low            | Variable           | Sapling                                    |   |            |
|       |                                | White Pine                |       | Low            | Variable           | Sapling                                    |   |            |
|       |                                | Jack Pine                 |       | Low            | Variable           | Sapling                                    |   |            |
|       |                                | Black Cherry              |       | Medium         | Variable           | Tall Shrub                                 |   |            |
|       |                                | Serviceberry (Juneberry)  |       | Low            | 10 - 20 feet       | Tall Shrub                                 |   |            |
| 10    | 6220 - Alder/willow            | Nonstocked                | 58.1  |                |                    | No   | L3 floodplain along West Branch of Big Creek, dominated by tag alder, along with salix, bog birch, spiraea. Small pockets of trembling aspen, bam, tamarack & black spruce, also encroaching along margins. Varying levels of beaver activity over time have made for fluctuating amounts of flooded areas; generally at a low right now.   |            |
| 11    | 3303 - Mixed Low Density Trees | Nonstocked                | 112.9 | 0              |                    | 42221 - Natural Jack Pine, Mixed Deciduous | This stand was split from stand 18. Western portion failed to regenerate naturally to acceptable species composition. The eastern portion (stand 11) was accepted as having adequate oak regeneration. Stand 18 will be planted as part of the Lovells KW block. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016.   |            |
|       |                                | <b>Sub-Canopy Species</b> |       | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b>                                |   |            |
|       |                                | Northern Pin Oak          |       | Medium         | 5 - 10 feet        | Sapling                                    |   |            |
|       |                                | Red Pine                  |       | Low            | >20 feet           | Log  |   |            |
|       |                                | Red Pine                  |       | Trace          | Variable           | Sapling                                    |   |            |
| 12    | 6112 - Lowland Aspen           | Poletimber Medium         | 4.6   | 56             | 81-110             | N/A  | Trembling aspen on floodplain margin (over tall tag alder) & grading up edge of terrace onto drier adjacent upland ground. Sparsest where trails out into L3. Rings difficult to distinguish (in mid-late 40's?). Poor health, hypox, conks, breaking up.   |            |
|       |                                | <b>Canopy Species</b>     |       | <b>% Cover</b> | <b>Size Class</b>  | <b>DBH</b>                                 |   | <b>Age</b> |
|       |                                | Quaking Aspen             |       | 90             | Pole/Log           | 8  |   | 56         |
|       |                                | Balsam Fir                |       | 10             | Pole               | 7  |   |            |
|       |                                | <b>Sub-Canopy Species</b> |       | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b>                                |   |            |
|       |                                | Balsam Fir                |       | Low            | Variable           | Sapling                                    |   |            |
|       |                                | Tag Alder                 |       | High           | 10 - 20 feet       | Tall Shrub                                 |   |            |



| Stand | Level 4 Cover Type                         | Size Density      | Acres | Stand Age | BA Range    | Managed Site              | General Comments   |
|-------|--|-------------------|-------|-----------|-------------|---------------------------|--|
| 13    | 3105 - Mixed Upland Herbaceous             | Nonstocked        | 2.6   |           |             | No                        | Substantial abandoned RR ROW, grassing-over, with a few tightly-spaced rows of RP poles planted along either side. Gate on W end, powerline runs down it, and a portion is crossed by driveways to adjacent private property.  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
| 14    | 6112 - Lowland Aspen                       | Poletimber Medium | 14.3  | 54        | 51-80       | N/A                       | Trembling aspen beset by fungal diseases, & beaver working on its N edge. Beaver cutting & disease-related decline are reducing the aspen component, shifting the stand towards more U, RM, WP. Aspen generally in its 40's (core difficult to age), but with scattered older pioneer stems that are largely breaking up. This narrow stand occupies both upland and lowland ground, extending from the JP edge down onto the tag alder floodplain. N 1/2 cut by small stream that empties into the West Branch of Big Creek. Substantial old RR grade runs the length of the stand. |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
| 15    | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Medium    | 52.5  | 13        | Immature    | N/A                       | Cut in 2005 (TS 720520201), all merchantable JP & aspen, leaving all RP & NPO. FTP C72-566: trenched 2007 & planted 2008. Planted JP with scattered residual RP & NPO poles/saw & saps; significantly less advanced regen & residual than E third of harvested area that was typed out as forested stand 17. JC update: Passed Year 3 regen survey to a mix of planted JP and naturally-established JP-O-A.  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
| 16    | 6239 - Mixed Emergent Wetland              | Nonstocked        | 7.2   |           |             | No                        | Narrow feeder stream terraced by a series of beaver dams. Lack of recent dam maintenance and dry spring resulted in significant drawdown of the string of mini-ponds. Mostly marsh grass with tag alder colonizing.  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
| 17    | 4310 - Pine, Oak Mix                       | Poletimber Poor   | 29.1  | 18        | 1-50        | N/A                       | Three secondary forest roads bisect this stand. All are extensively used as local snowmobile and OHV routes.<br><br>Cut in 2003 by Inman FP (TS 720520201), all merch JP & aspen, leaving all RP & NPO. Resid from cut: scattered RP of all age/size classes, terrible health/quality NPO, less WO, JP 1-stk poles. Uncut margin along L to SE with aspen and jack pine poles. Wide spectrum of pre-existing and post-harvest established regen: JP seedlings/sm saps, advanced NPO saps, some RP. Truly multistoried, variable stand.   |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
| 18    | 3303 - Mixed Low Density Trees             | Nonstocked        | 171.9 | 0         | Unspecified | 42120 - Planted Jack Pine | Natural JP stand was final harvested 2013-2016 (#026-12). KW program wanted to try for natural JP regen. Stand failed the regen survey. Variance approved to trench & plant JP. Was trenched in 2019 & planted in 2020 (W72-875). Passed Yr 1 regen survey Sept 2020. There is a concrete pad located on the old railroad grade at the end of the forest road in the western part of stand 18. This foundation was the location of a trespass cabin that was demolished. This site does not need protection in the future.   |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |
|       |  |                   |       |           |             |                           |  |



| Stand  | Level 4 Cover Type             | Size Density   | Acres      | Stand Age          | BA Range | Managed Site                               | General Comments  |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
|--|--------------------------------|--|------------|--------------------|----------|--|---|---------------|------------------|----------|-------------|------------|---|------|--------------------|------------|---------------|-------|---------------|---------|-----------|------------|------------------------|------------|--------------|---------|--|------|
| 19   | 42220 - Natural Jack Pine      | Poletimber Well  | 56.2       | 62                 | 81-110   | N/A  | Fairly uniform low stocking of hybrid oak sapling in the understory. Aside from ~10 rows of planted JP along CR612, the stand is naturally-established. Median age 50-60, but the south edge along the lowland has very overmature JP saw w/ much decadence, and in the NW there is younger JP in its 40's mixed in. Midland to Mackinaw pathway winds through, and snowmobile trail. Note that there is a narrow strip of this JP type on the west side of the cleared powerline ROW.  |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Pole/Log</td> <td>8</td> <td>62</td> </tr> </tbody> </table>  |                                | Canopy Species   | % Cover    | Size Class         | DBH      | Age  |   | Jack Pine     | 100              | Pole/Log | 8           | 62         | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Cherry (spp.)</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> |      | Sub-Canopy Species | Density    | Avg. Height   | Size  | Cherry (spp.) | Low     | Variable  | Tall Shrub | Black/Red (Hybrid) Oak | Low        | 5 - 10 feet  | Sapling |  |      |
| Canopy Species   | % Cover                        | Size Class   | DBH        | Age                |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Jack Pine  | 100                            | Pole/Log   | 8          | 62                 |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Sub-Canopy Species   | Density                        | Avg. Height  | Size       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Cherry (spp.)  | Low                            | Variable   | Tall Shrub |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Black/Red (Hybrid) Oak   | Low                            | 5 - 10 feet  | Sapling    |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| 20   | 6239 - Mixed Emergent Wetland  | Nonstocked   | 4.1        |                    |          | No   | Marsh grass, rimmed by L3, mostly salix. Appears to normally have standing water, but water table is completely below ground right now.   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
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| Sub-Canopy Species   | Density                        | Avg. Height  | Size       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Bog Willow   | Low                            |  | Tall Shrub |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| 21   | 6220 - Alder/willow            | Nonstocked   | 6.8        |                    |          | No   | L0 with a sparse perimeter of black spruce & scattered struggling trembling aspen. Lots of deer activity.   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
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| Sub-Canopy Species   | Density                        | Avg. Height  | Size       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Willow spp.  | Medium                         |  | Tall Shrub |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Tag Alder  | High                           |  | Tall Shrub |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Quaking Aspen  | Low                            |  | Pole       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Bog Birch  | Low                            |  | Tall Shrub |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Black Spruce   | Low                            |  | Pole       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| 22   | 4130 - Aspen                   | Sapling Well   | 8.6        | 16                 | Immature | N/A  | Cut under 720510201 before the 2005 growing season. A buffer was left around the lowland brush type it encompasses. Trembling aspen regen on transition zone between upland JP plantation and lowland brush; spreading into both types.   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
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| Canopy Species   | % Cover                        | Size Class   | DBH        | Age                |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Quaking Aspen  | 85                             | Sapling  | 1          | 16                 |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Black Cherry   | 15                             | Sapling  | 1          |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| 23   | 6220 - Alder/willow            | Nonstocked   | 12.3       |                    |          | No   | Tall tag alder over marsh grass, tamarack snags, small feeder stream originates in it, dry now. From imagery, there are small pockets of low-density P/Q. Seasonal drain is crossed by a 2-track; pieces of wood are thrown in for driving across.  |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| 24   | 3303 - Mixed Low Density Trees | Nonstocked   | 0.0        | 0                  |          | 42221 - Natural Jack Pine, Mixed Deciduous | This stand was split from stand 18. Western portion failed to regenerate naturally to acceptable species composition. The eastern portion (stand 11) was accepted as having adequate oak regeneration. Stand 18 will be planted as part of the Lovells KW block. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016. |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
|  |                                | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>&gt;20 feet</td> <td>Log</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>   |            | Sub-Canopy Species | Density  | Avg. Height                                |   | Size          | Northern Pin Oak | Medium   | 5 - 10 feet | Sapling    | Red Pine  | Low  | >20 feet           | Log        | Red Pine      | Trace | Variable      | Sapling |           |            |                        |            |              |         |  |      |
| Sub-Canopy Species   | Density                        | Avg. Height  | Size       |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Northern Pin Oak   | Medium                         | 5 - 10 feet  | Sapling    |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Red Pine   | Low                            | >20 feet   | Log        |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |
| Red Pine   | Trace                          | Variable   | Sapling    |                    |          |  |   |               |                  |          |             |            |   |      |                    |            |               |       |               |         |           |            |                        |            |              |         |  |      |



| Stand        | Level 4 Cover Type                         | Size Density      | Acres      | Stand Age | BA Range | Managed Site    | General Comments  |                    |         |              |            |     |
|--------------|--|-------------------|------------|-----------|----------|-----------------|---|--------------------|---------|--------------|------------|-----|
| 25           | 6229 - Mixed lowland shrub                 | Nonstocked        | 5.7        |           |          | No              | L that usually would have some standing water, dry now. Abandoned built-up RR grade cuts through.   |                    |         |              |            |     |
|              |  |                   |            |           |          |                 |   | Sub-Canopy Species | Density | Avg. Height  | Size       |     |
|              |  |                   |            |           |          |                 |   | Tag Alder          | Low     |              | Tall Shrub |     |
|              |  |                   |            |           |          |                 |   | Bog Birch          | Medium  |              | Tall Shrub |     |
|              |  |                   |            |           |          |                 |   | Spiraea spp.       | Low     |              | Tall Shrub |     |
|              |  |                   |            |           |          |                 |   | Red Osier Dogwood  | Low     |              | Tall Shrub |     |
| Leatherleaf  | Medium                                     |                   | Tall Shrub |           |          |                 |   |                    |         |              |            |     |
| Bog Willow   | Medium                                     |                   | Tall Shrub |           |          |                 |   |                    |         |              |            |     |
| 26           | 110 - Low Intensity Urban                  | Nonstocked        | 14.8       |           |          | Managed Opening | Cleared paved county road ROW (CR 612).   |                    |         |              |            |     |
| 27           | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well      | 143.6      | 13        | Immature | N/A             | Cut under 720510201 between 2004 & 2006. FTP W72-550: trenched & planted (majority in 2008, 60 acres in 2009). JP, NPO stumpshoots, cherry brush. From what can be seen above snow in trenches, there are seedling mortality & thrift concerns (top kill & littleleaf symptoms), lots of deer sign, with browse increasing to W near A/L. Note that the harvest was not carried to the private line on the W edge; a strip of J6 roughly a chain wide was left there. The strip did not meet minimum mapping standards. Sept 2010 update: Year 1 regen check conducted in spring 2010 came back at 1130 JP trees per acre, so supplemental planting not needed at this time. Passed Year 3 regen survey with 1143 JP & 119 NPO/BC per acre. Per 11-3-10 Compt Review, close the interior roads that were not closed through the planting FTP. |                    |         |              |            |     |
|              |  |                   |            |           |          |                 |   | Canopy Species     | % Cover | Size Class   | DBH        | Age |
|              |  |                   |            |           |          |                 |   | Jack Pine          | 80      | Sapling      | 1          | 13  |
|              |  |                   |            |           |          |                 |   | Quaking Aspen      | 5       | Sapling      | 1          | 15  |
|              |  |                   |            |           |          |                 |   | Northern Pin Oak   | 10      | Sapling      | 1          | 15  |
| Black Cherry | 5  | Sapling           | 1          | 15        |          |                 |   |                    |         |              |            |     |
| 28           | 42220 - Natural Jack Pine                  | Poletimber Well   | 7.4        | 66        | 81-110   | N/A             | Vortex left in recent KW harvest 720510201. Some JP windthrowing on W edge, variable NPO regen.   |                    |         |              |            |     |
|              |  |                   |            |           |          |                 |   | Canopy Species     | % Cover | Size Class   | DBH        | Age |
|              |  |                   |            |           |          |                 |   | Jack Pine          | 100     | Pole/Log     | 8          | 66  |
| 29           | 42220 - Natural Jack Pine                  | Poletimber Medium | 18.4       | 68        | 51-80    | N/A             | The stand ranges from relatively uniform self-pruned poles (50-60), to very overmature JP (logs 70+) near the A/L to NW, to branches-to-the-ground younger JP colonizing the grassy opening. Sparse trembling aspen & U/G mixing in to S & E. Snowmobile trail and Midland to Mackinaw pathway cross through.   |                    |         |              |            |     |
|              |  |                   |            |           |          |                 |   | Canopy Species     | % Cover | Size Class   | DBH        | Age |
|              |  |                   |            |           |          |                 |   | Quaking Aspen      | 2       | Pole/Sapling | 6          |     |
| Jack Pine    | 98   | Pole/Log          | 8          | 68        |          |                 |   |                    |         |              |            |     |
| 30           | 6220 - Alder/willow                        | Nonstocked        | 9.3        |           |          | No              | Marsh grasses and sedge with alder and scattered jack pine, spruce and aspen. This stand is a transitional zone between N type to the south and J type to the north.  |                    |         |              |            |     |
|              |  |                   |            |           |          |                 |   | Sub-Canopy Species | Density | Avg. Height  | Size       |     |
|              |  |                   |            |           |          |                 |   | Tamarack           | Low     |              | Pole       |     |
| Tag Alder    | High                                       |                   | Tall Shrub |           |          |                 |   |                    |         |              |            |     |
| Black Spruce | Low  |                   | Pole       |           |          |                 |   |                    |         |              |            |     |



| Stand                    | Level 4 Cover Type                         | Size Density      | Acres      | Stand Age | BA Range    | Managed Site | General Comments  |                              |                     |                 |            |     |
|--------------------------|--|-------------------|------------|-----------|-------------|--------------|---|------------------------------|---------------------|-----------------|------------|-----|
| 31                       | 31022 - Warm Season Grass                  | Nonstocked        | 2.8        |           |             | No           | Dry upland opening, JP colonizing. Couple of fire plow line segments w/ JP saps on east edge.   |                              |                     |                 |            |     |
|                          |  |                   |            |           |             |              |   | Sub-Canopy Species           | Density             | Avg. Height     | Size       |     |
|                          |  |                   |            |           |             |              |   | Cherry (spp.)                | Low                 |                 | Tall Shrub |     |
|                          |  |                   |            |           |             |              |   | Sweet Fern                   | Medium              |                 | Tall Shrub |     |
|                          |  |                   |            |           |             |              |   | Blueberry/Bilberry/Cranberry | Medium              |                 | Tall Shrub |     |
| Serviceberry (Juneberry) | Low  |                   | Tall Shrub |           |             |              |   |                              |                     |                 |            |     |
| 32                       | 6121 - Tamarack                            | Poletimber Medium | 19.5       | 70        | Unspecified | N/A          | Mostly tamarack with black spruce, and scattered struggling trembling aspen along the edges. Over sphagnum moss & marsh grass, colonizing the L along margins & inclusions; tag alder common in the subcanopy. The bulk of the tamarack is around 60, with older pioneer tamarack that initially colonized the lowland, and black spruce progressively filling in. A couple of supercanopy WP. Built-up RR grade crosses through.   |                              |                     |                 |            |     |
|                          |  |                   |            |           |             |              |   | Canopy Species               | % Cover             | Size Class      | DBH        | Age |
|                          |  |                   |            |           |             |              |   | Quaking Aspen                | 5                   | Log/Pole        | 9          |     |
|                          |  |                   |            |           |             |              |   | Black Spruce                 | 35                  | Pole            | 7          |     |
|                          |  |                   |            |           |             |              |   | Tamarack                     | 60                  | Pole/Sap/Log    | 8          | 70  |
| Sub-Canopy Species       | Density                                    | Avg. Height       | Size       |           |             |              |   |                              |                     |                 |            |     |
| Black Spruce             | Medium                                     | Variable          | Sapling    |           |             |              |   |                              |                     |                 |            |     |
| Tag Alder                | Medium                                     | 5 - 10 feet       | Tall Shrub |           |             |              |   |                              |                     |                 |            |     |
| 33                       | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well      | 81.1       | 13        | Immature    | N/A          | Natural regeneration continues to fill in with some larger natural regen producing cones.<br><br>Cut under 720510201 between 2003 & 2004. FTP W72-550: trenched & planted (majority in 2008, 60 acres in 2009). JP, NPO stumpsprouts, cherry brush. From what can be seen above snow in trenches, there are seedling mortality & thrift concerns (littleleaf symptoms on growth since planting). Sept 2010 update: Year 1 regen check conducted in spring 2010 came back at 1130 JP trees per acre, so supplemental planting not needed at this time. Passed Year 3 regen survey with 1143 JP & 119 NPO/BC per acre. Interior road that was left untrenched was closed as part of the closing work on the adjacent MB Extension KW harvest. |                              |                     |                 |            |     |
|                          |  |                   |            |           |             |              |   | Canopy Species               | % Cover             | Size Class      | DBH        | Age |
|                          |  |                   |            |           |             |              |   | Jack Pine                    | 80                  | Sapling         | 1          | 13  |
|                          |  |                   |            |           |             |              |   | Northern Pin Oak             | 15                  | Sapling         | 1          | 17  |
|                          |  |                   |            |           |             |              |   | Black Cherry                 | 5                   | Sapling         | 1          | 17  |
| 34                       | 6112 - Lowland Aspen                       | Sapling Poor      | 7.5        | 9         | Immature    | N/A          | Harvested under contract 72-025-12-01, Out in the Boondocks JP.<br><br>Aspen on transition zone from upland JP to lowland brush, mixing into both types. Characterized by pole/sap/log trembling aspen clones separated by U/G/L with scattered, low-vigor aspen stems trying to fill in between. A real mixed bag, sparse overall, starting to break up. Wraps around small feeder stream. Snowmobile trail crosses through in two places.   |                              |                     |                 |            |     |
|                          |  |                   |            |           |             |              |   | Canopy Species               | % Cover             | Size Class      | DBH        | Age |
|                          |  |                   |            |           |             |              |   | Quaking Aspen                | 75                  | Sapling         | 1          | 9   |
|                          |  |                   |            |           |             |              |   | Black Cherry                 | 25                  | Sapling         | 1          | 9   |
|                          |  |                   |            |           |             |              |   | 35                           | 6122 - Black Spruce | Poletimber Well | 23.4       | 67  |
| Canopy Species           | % Cover                                    | Size Class        | DBH        | Age       |             |              |   |                              |                     |                 |            |     |
| Paper Birch              | 5  | Pole/Log          | 9          |           |             |              |   |                              |                     |                 |            |     |
| Black Spruce             | 60   | Pole              | 7          | 67        |             |              |   |                              |                     |                 |            |     |
| Northern White Cedar     | 20   | Pole/Log          | 9          | 109       |             |              |   |                              |                     |                 |            |     |
| Tamarack                 | 15   | Pole/Log          | 8          |           |             |              |   |                              |                     |                 |            |     |
| Sub-Canopy Species       | Density                                    | Avg. Height       | Size       |           |             |              |   |                              |                     |                 |            |     |
| Black Spruce             | Medium                                     | Variable          | Sapling    |           |             |              |   |                              |                     |                 |            |     |
| Tag Alder                | Medium                                     | 5 - 10 feet       | Tall Shrub |           |             |              |   |                              |                     |                 |            |     |
| 36                       | 6239 - Mixed Emergent Wetland              | Nonstocked        | 29.8       |           |             | No           | Marsh with stream flowing through; water level varying with beaver activity/dam maintenance. Mostly marsh grass, a little cattail, extensive flood-killed snags, perimeter of L3. Beaver lodge. See OFS point.  |                              |                     |                 |            |     |
|                          |  |                   |            |           |             |              |   | Sub-Canopy Species           | Density             | Avg. Height     | Size       |     |
|                          |  |                   |            |           |             |              |   | Tag Alder                    | Low                 |                 | Tall Shrub |     |





| Stand  | Level 4 Cover Type                         | Size Density    | Acres      | Stand Age | BA Range | Managed Site    | General Comments  |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
|--|--|-----------------|------------|-----------|----------|-----------------|---|--------------------|---------|-------------|------|------------------|------------------|----|------------|-----------|--------|------------------|------------|--------------|-----|----|--------------------|-------------|--------------|------|------------------|------------|-------------|---------|------------|----------|----------|---------|------------|-----------|-------------|---------|------------|---------------|-----|--|------|
| 37   | 4191 - Mixed Upland Deciduous with Conifer | Sapling Poor    | 12.9       | 28        | 1-50     | N/A             | The aspen component of this stand is being reduced (canker, beaver, off site) and jack pine continue to establish.<br><br>High-ground peninsula with N/L on 3 sides. Cut in early 1993 under 7202109201. Patchy mix of post-harvest residual and natural regen: trembling aspen, cherry, JP, NPO and black spruce. Beaver have been reducing the aspen component, expanding the U/G. Small finger to SE was not cut -- has pocket of BS & JP poles.   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
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| Canopy Species   | % Cover                                    | Size Class      | DBH        | Age       |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Quaking Aspen  | 25   | Sapling         | 2          | 28        |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Northern Pin Oak   | 10   | Sapling         | 3          |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Black Spruce   | 5  | Sapling/Pole    | 4          |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Jack Pine  | 35   | Sapling         | 2          | 28        |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| 38   | 6229 - Mixed lowland shrub                 | Nonstocked      | 33.3       |           |          | No              | Lowland brush w/ marsh grass, water around hummocks closer to N/Z, rimmed with tamarack, trembling aspen & black spruce. Far NE encompasses headwaters of feeder stream w/ aspen & spruce bordering it. Midland to Mackinaw pathway crosses that stream.  |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
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| Sub-Canopy Species   | Density                                    | Avg. Height     | Size       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Spiraea spp.   | Low  |                 | Tall Shrub |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Tag Alder  | Medium                                     |                 | Tall Shrub |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Black Spruce   | Low  |                 | Pole       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Leatherleaf  | Medium                                     |                 | Tall Shrub |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Bog Willow   | Medium                                     |                 | Tall Shrub |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Tamarack   | Low  |                 | Pole       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Bog Birch  | Medium                                     |                 | Tall Shrub |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Quaking Aspen  | Low  |                 | Pole       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| 39   | 4130 - Aspen                               | Sapling Medium  | 18.2       | 28        | Immature | N/A             | A3, with U/G inclusions that bring the overall canopy closure down a category, bordering L3 on west & north sides. Harvested in early 1993 under 720219201. Beaver cutting ongoing especially in SW near major run. Midland to Mackinaw pathway runs through it.  |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
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| Canopy Species   | % Cover                                    | Size Class      | DBH        | Age       |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Quaking Aspen  | 80   | Sapling         | 2          | 28        |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Jack Pine  | 5  | Sapling         | 2          |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Black Cherry   | 15   | Sapling         | 1          |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| 40   | 110 - Low Intensity Urban                  | Nonstocked      | 27.5       |           |          | Managed Opening | Gravel county road ROW (Walsh & Boondocks Roads), and cleared powerline ROW along west edge of compt.   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
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| Sub-Canopy Species   | Density                                    | Avg. Height     | Size       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Northern Pin Oak   | Low  |                 | Sapling    |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Jack Pine  | Low  |                 | Sapling    |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| 41   | 42220 - Natural Jack Pine                  | Poletimber Well | 9.3        | 69        | 81-110   | N/A             | This stand was created from vortex strip retention in KW harvest (72-035-11 MB Extension KW)<br><br>Previous inventory comments:<br>JP type was diameter-limit cut (10" diam at stump & up) in 1960, with a portion of that salvaged again in 1970. JP poles generally 50-60, with younger age class in 40's, scattered poor health/quality NPO, occasional RP & white oak. Picks up small amount of aspen on the east edge adjacent to lowlands. This portion of the stand was left as part of the vortice retention for 72-035-11-01. No edits where made to the parent stand canopy or subcanopy data. |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
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| Canopy Species   | % Cover                                    | Size Class      | DBH        | Age       |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Northern Pin Oak   | 5  | Log/Pole        | 11         |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Jack Pine  | 95   | Pole/Sap/Log    | 6          | 69        |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Sub-Canopy Species   | Density                                    | Avg. Height     | Size       |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Northern Pin Oak   | Low  | 5 - 10 feet     | Sapling    |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Jack Pine  | Low  | Variable        | Sapling    |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |
| Oak (spp.)   | Low  | 5 - 10 feet     | Sapling    |           |          |                 |   |                    |         |             |      |                  |                  |    |            |           |        |                  |            |              |     |    |                    |             |              |      |                  |            |             |         |            |          |          |         |            |           |             |         |            |               |     |  |      |



| Stand  | Level 4 Cover Type                         | Size Density    | Acres | Stand Age | BA Range | Managed Site | General Comments   |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|--|--|-----------------|-------|-----------|----------|--------------|--|----------------|---------|------------|-----|-----|------------------|-----|---------------|----|----|-----------|----|--------------|----|----|------------------|----|---------|---|---|
| <b>42</b>  | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Medium  | 213.3 | 7         | Immature | N/A          | Stand was final harvested by July 2013 (72-035-11-01, MB Extension KW), leaving the RP, WP & WO (less than 3 BA total residual). Was trenched fall 2013 (W72-730) & then planted to JP in 2014. Passed Year 1 regen survey with 1254 JP & 586 NPO per acre. Yr 3 regen survey found 1005 JP & 656 Oak per acre. Below the 1,200 JP/acre minimum for KW, but passes in combination with the oak. FTP is complete.   |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
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| Canopy Species   | % Cover                                    | Size Class      | DBH   | Age       |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Red Pine   | 1  | Log/Pole/XLog   | 14    |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Jack Pine  | 65   | Sapling         | 1     | 7         |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| <b>43</b>  | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Poor    | 309.1 | 5         | Immature | N/A          | Was final harvested by early 2015 (#025-12), cutting stems 2"+ DBH except RP greater than 18" DBH and retention islands. Was trenched to the opposing wave pattern for KW habitat (W72-772) and the north 60 acres were planted in 2015, with the remaining majority planted in 2016. Passed Yr 1 regen survey with 1241 JP & 486 Oak TPA. Passed Yr 3 regen survey with 1172 JP & 416 O TPA. FTP is complete. Midland to Mackinaw pathway & snowmobile trail cross through.   |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
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| Canopy Species   | % Cover                                    | Size Class      | DBH   | Age       |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Jack Pine  | 60   | Sapling         | 1     | 5         |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Red Pine   | 1  | XLog            | 18    |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Northern Pin Oak   | 39   | Sapling         | 1     | 6         |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| <b>44</b>  | 42220 - Natural Jack Pine                  | Poletimber Well | 10.1  | 68        | 81-110   | N/A          | Retention islands left when original stands 43, 44 & 46 were harvested in 2015 (#025-12). Canopy data was roughed re-constructed after it was wiped during sale closure updates. Previous comments: In the 1960's, several small, mostly salvage/improvement harvests were carried out across portions of this jack pine type. Some overlapped previously-treated portions, while other parts of the stand were never harvested. The harvests were mostly diameter-limit cuts focusing on removing the overmature JP saw. Because of its varied treatment history & also likely fire influences, the stand is represented by multiple age-classes of JP, mostly poles in their 50's and 60's, with younger poles in their 30's & 40's (mixing in to N & W) and overmature large pole/small saw JP (70+) mostly along the lowland edge to the north & in pockets in to the NE, but also scattered throughout. Progressing mortality in the older JP is opening up areas of U/G along the lowland edge, where there are also pockets of aspen. Very poor quality NPO stems are scattered across the stand, along with RP (more to NW). Midland to Mackinaw pathway & snowmobile trail cross through. SI 46 |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
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| Canopy Species   | % Cover                                    | Size Class      | DBH   | Age       |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Jack Pine  | 100  | Pole/Log/Sap    | 8     | 68        |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| <b>45</b>  | 42120 - Planted Jack Pine                  | Poletimber Well | 338.5 | 34        | 51-80    | N/A          | With the high density KW planting the edge JP, including diamond openings, are pole size while interior they are still sapling size. Stand was erroneously flagged as needing updates after closing an adjacent treatment in 2019. The original stand data was not updated when clearing that flag. 3-9-10 inventory comments: KW JP planted 1987. Large sap/small pole JP, NPO stump sprouts, occasional RP small poles, small pockets of trembling aspen along east edge. Pocket of older poles to N center edge. South edge, east of MB Extension road, has small bog inclusions (OFS layer), and an unplanted strip with naturally-established JP.   |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
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| Canopy Species   | % Cover                                    | Size Class      | DBH   | Age       |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Northern Pin Oak   | 3  | Sapling         | 3     |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
| Jack Pine  | 97   | Sapling/Pole    | 4     | 34        |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |
|  |  |                 |       |           |          |              |  |                |         |            |     |     |                  |     |               |    |    |           |    |              |    |    |                  |    |         |   |   |



| Stand   | Level 4 Cover Type         | Size Density   | Acres      | Stand Age          | BA Range | Managed Site | General Comments   |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
|---|----------------------------|--|------------|--------------------|----------|--------------|--|------------------|------------|--------------|---|------------|---------------|-----|--------------|------------|-----------|---|----|--------------------|-------------|-------------|----------|------------|----------|--------------|------------|---|-----|--------------------|------------|-------------|--|------------|--------------------|--------------|-------------|-----------|-----------|-------------|--------------|-----|------------------|-----|-------------|-----|--|--|
| <b>46</b>   | 42120 - Planted Jack Pine  | Poletimber Well  | 35.8       | 34                 | 51-80    | N/A          | With the high density KW planting the edge JP, including diamond openings, are pole size while interior they are still sapling size. Stand was erroneously flagged as needing updates after closing an adjacent treatment in 2019. The original stand data was not updated when clearing that flag. 3-9-10 inventory comments: KW JP planted 1987. Large sap/small pole JP, NPO stump sprouts, occasional RP small poles, small pockets of trembling aspen along east edge. Pocket of older poles to N center edge. South edge, east of MB Extension road, has small bog inclusions (OFS layer), and an unplanted strip with naturally-established JP. |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Canopy Species  | % Cover                    | Size Class   | DBH        | Age                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Northern Pin Oak  | 3                          | Sapling  | 3          |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Jack Pine   | 97                         | Sapling/Pole   | 4          | 34                 |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| <b>47</b>   | 6121 - Tamarack            | Poletimber Poor  | 5.9        | 79                 | 51-80    | N/A          | Spindley, slow-growing tamarack on sphagnum hummocks, tag alder below & tag alder inclusions in processes of filling in with tamarack. Usually flooded, dry this spring. Rimmed by black spruce.   |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Canopy Species  | % Cover                    | Size Class   | DBH        | Age                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Black Spruce  | 15                         | Pole/Sapling   | 6          |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Tamarack  | 85                         | Pole/Sap/Log   | 7          | 79                 |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Sub-Canopy Species  | Density                    | Avg. Height  | Size       |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Tag Alder   | High                       | 10 - 20 feet   | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Nannyberry  | Low                        | 5 - 10 feet  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| <b>48</b>   | 6229 - Mixed lowland shrub | Nonstocked   | 9.7        |                    |          | No           | L with small pocket of N, tamarack colonizing from north.  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Sub-Canopy Species  | Density                    | Avg. Height  | Size       |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Bog Willow  | Medium                     |  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Spiraea spp.  | Low                        |  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Bog Birch   | Medium                     |  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Leatherleaf   | Medium                     |  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Tamarack  | Low                        |  | Sapling    |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| <b>49</b>   | 4130 - Aspen               | Sapling Well   | 4.9        | 8                  | Immature | N/A          | This trembling aspen stand was final harvested, except for the few RP, WP & oak, by summer 2013 (72-035-11-01).  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Canopy Species  | % Cover                    | Size Class   | DBH        | Age                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Quaking Aspen   | 90                         | Sapling  | 1          | 8                  |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Balsam Fir  | 8                          | Sapling  | 2          | 8                  |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Northern Pin Oak  | 2                          | Log  | 12         |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| <b>50</b>   | 6120 - Lowland Cedar       | Poletimber Well  | 51.5       | 109                | 81-110   | N/A          | Northern white cedar on sphagnum moss with black muck/standing water in holes in root mat. Thick balsam fir regen below & filling in opener areas of tag alder. Scattered tamarack, black spruce & balsam fir poles mixed in. Perimeter on transition zone to uplands is dominated by BF & BS, w/ a little trembling aspen.  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Canopy Species  | % Cover                    | Size Class   | DBH        | Age                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Balsam Fir  | 15                         | Pole/Sapling   | 6          |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Black Spruce  | 5                          | Pole/Sapling   | 7          |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Northern White Cedar  | 70                         | Pole/Log   | 8          | 109                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Tamarack  | 10                         | Pole/Log   | 8          |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Sub-Canopy Species  | Density                    | Avg. Height  | Size       |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Balsam Fir  | High                       | 10 - 20 feet   | Sapling    |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Tag Alder   | Medium                     | 5 - 10 feet  | Tall Shrub |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| <b>51</b>   | 4130 - Aspen               | Sapling Medium   | 9.0        | 8                  | Immature | N/A          | This narrow aspen stand on the transition zone between the upland JP & L/Q was final harvested summer 2013 (72-035-11-01) except for the few RP, WP & oak.   |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
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| Canopy Species  | % Cover                    | Size Class   | DBH        | Age                |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Red Maple   | 13                         | Sapling  | 1          | 8                  |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Quaking Aspen   | 80                         | Sapling  | 1          | 8                  |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Black Cherry  | 5                          | Sapling  | 1          | 8                  |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Red Pine  | 1                          | Log  | 12         |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| White Pine  | 1                          | Log/Pole   | 10         |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Sub-Canopy Species  | Density                    | Avg. Height  | Size       |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Red Maple   | Low                        | 10 - 20 feet   | Log        |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |
| Northern Pin Oak  | Low                        | 5 - 10 feet  | Log        |                    |          |              |  |                  |            |              |   |            |               |     |              |            |           |   |    |                    |             |             |          |            |          |              |            |   |     |                    |            |             |  |            |                    |              |             |           |           |             |              |     |                  |     |             |     |  |  |



| Stand  | Level 4 Cover Type           | Size Density  | Acres      | Stand Age          | BA Range | Managed Site | General Comments  |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
|--|------------------------------|---|------------|--------------------|----------|--------------|---|---------------|-----------|--------------|---|------------|---------------|-----|--------------|------------|-----------|--|----|--------------------|----------|-------------|--------------|-----------|------------|-------------|------------|----------------------|-----|----------|------------|------------|----------|----------|------------|---|--|--|--|--------------------|---------|-------------|------|---------------|-----|----------|---------|------------|--------|----------|---------|-----------|------|--------------|------------|
| <b>52</b>  | 6111 - Lowland Balsam Poplar | Poletimber Poor   | 6.3        | 66                 | 51-80    | N/A          | Low-density floodplain P/Q over tall tag alder over marsh grass on saturated muck soils. West Branch of Big Creek -- part of the AuSable's Natural River designation -- flows west of the stand. Primarily bam along the creek banks, a little trembling aspen on the perimeter against adjacent uplands, and pockets of tamarack, black spruce, balsam fir & northern white cedar scattered in between. Bam very poor quality: top die-back & epicormic branching common. Beaver-gnawed boles near the creek. Dieback & windthrow common in the NWC. |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
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| Canopy Species   | % Cover                      | Size Class  | DBH        | Age                |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Quaking Aspen  | 5                            | Pole  | 7          |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Balsam Poplar  | 70                           | Pole/Log  | 8          | 66                 |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Balsam Fir   | 10                           | Pole  | 7          |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Black Spruce   | 5                            | Pole  | 8          |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Northern White Cedar   | 5                            | Log/Pole  | 11         |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tamarack   | 5                            | Pole  | 8          |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Sub-Canopy Species   | Density                      | Avg. Height   | Size       |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Balsam Poplar  | Low                          | Variable  | Sapling    |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Balsam Fir   | Medium                       | Variable  | Sapling    |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tag Alder  | High                         | 10 - 20 feet  | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| <b>53</b>  | 6121 - Tamarack              | Poletimber Medium   | 148.0      | 59                 | 51-80    | N/A          | Tamarack that has been colonizing a large lowland brush area over the past several decades. Spindley tamarack small poles/large saps, with a minority of older large pole/small saw stems. The scattered low-density pioneer component has been dying out. On sphagnum hummocks with L3 below, also L3 inclusions (more to E) & pick up more black spruce to E along with paper birch. NWC mixing in at N end transition with cedar type. Scattered small islands of high ground within the stand. ring 41 ht 44'                                     |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
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| Canopy Species   | % Cover                      | Size Class  | DBH        | Age                |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Black Spruce   | 5                            | Pole/Sapling  | 5          | 80                 |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tamarack   | 95                           | Pole/Sap/Log  | 6          | 59                 |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Sub-Canopy Species   | Density                      | Avg. Height   | Size       |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tag Alder  | High                         | 5 - 10 feet   | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Red Osier Dogwood  | Low                          | < 5 feet  | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Nannyberry   | Low                          | < 5 feet  | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| <b>54</b>  | 6220 - Alder/willow          | Nonstocked  | 44.3       |                    |          | No           | Lowland brush dominated by tall tag alder. Tamarack colonizing from the east. To south, in periodically-flooded area, see more bog birch & marsh grass.   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
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| Sub-Canopy Species   | Density                      | Avg. Height   | Size       |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Bog Birch  | Medium                       |   | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Leatherleaf  | Low                          |   | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tag Alder  | High                         |   | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Tamarack   | Low                          |   | Sapling    |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| Bog Willow   | Medium                       |   | Tall Shrub |                    |          |              |   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |
| <b>55</b>  | 6233 - Wet Meadow            | Nonstocked  | 5.2        |                    |          | No           | Beaver have re-established and an occupied lodge was observed. Periodically flooded area. Reduction in beaver activity and subsequent draw-down prompted remote update from open water to marsh. Edge call during inventory in 2010 noted perimeter bog birch, leatherleaf and salix.   |               |           |              |   |            |               |     |              |            |           |  |    |                    |          |             |              |           |            |             |            |                      |     |          |            |            |          |          |            |   |  |  |  |                    |         |             |      |               |     |          |         |            |        |          |         |           |      |              |            |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments |
|-------|--------------------|--------------|-------|-----------|----------|--------------|------------------|
|-------|--------------------|--------------|-------|-----------|----------|--------------|------------------|

**56** 330 - Low-Density Trees Nonstocked 47.0 0 413 - Aspen

Stand was harvested in 2019 (72-009-18 Lost Can Aspen) along with adjacent stands in compartments 292 and 227. Stand was clear cut with all spruce/fir retained in addition to island retention. Access has been closed to vehicles. As of 3/11/2020 aspen regen was 2-3 feet tall and well dispersed across the stand.

2010 Inventory Notes:  
Most of the stand was final harvested in 1970 (#20-70), cutting merch JP, aspen & oak.  
The north end was completed by 1971 (#24-71). Marked RP sawtimber was cut out of the south end in 1974 (#01-74, comp 272 harvest). The stand regenerated to trembling aspen (& a few BTA) clones, separated by U/G/JP cover. NPO stump sprouts approaching pole-size. JP short, limby. Scattered RP poles & saw, residual from cut. The stand occupies a low sandy ridge surrounded by lowlands. Access was from the south through compt 272; culvert still in place, but washed-out around due to periodic beaver activity.

**57** 42220 - Natural Jack Pine Poletimber Well 1.5 69 81-110 N/A

| Canopy Species   | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size    |
|------------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Northern Pin Oak | 5       | Log/Pole   | 11  |     | Northern Pin Oak   | Low     | 5 - 10 feet | Sapling |
| Jack Pine        | 95      | Pole/Log   | 7   | 69  | Jack Pine          | Low     | Variable    | Sapling |

This stand was created from vortex strip retention in KW harvest (72-035-11 MB Extension KW)

Previous inventory comments:  
JP type was diameter-limit cut (10" diam at stump & up) in 1960, with a portion of that salvaged again in 1970. JP poles generally 50-60, with younger age class in 40's, scattered poor health/quality NPO, occasional RP & white oak. Picks up small amount of aspen on the east edge adjacent to lowlands. This portion of the stand was left as part of the vortice retention for 72-035-11-01. No edits where made to the parent stand canopy or subcanopy data.

**58** 42220 - Natural Jack Pine Poletimber Well 1.1 69 81-110 N/A

| Canopy Species   | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size    |
|------------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Northern Pin Oak | 5       | Log/Pole   | 11  |     | Northern Pin Oak   | Low     | 5 - 10 feet | Sapling |
| Jack Pine        | 95      | Pole/Log   | 7   | 69  | Jack Pine          | Low     | Variable    | Sapling |

JP type was diameter-limit cut (10" diam at stump & up) in 1960, with a portion of that salvaged again in 1970. JP poles generally 50-60, with younger age class in 40's, scattered poor health/quality NPO, occasional RP & white oak. Picks up small amount of aspen on the east edge adjacent to lowlands. This portion of the stand was left as part of the vortice retention for 72-035-11-01. No edits where made to the parent stand canopy or subcanopy data.

**59** 42220 - Natural Jack Pine Poletimber Well 11.0 69 81-110 N/A

| Canopy Species   | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size    |
|------------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Northern Pin Oak | 5       | Log/Pole   | 11  |     | Northern Pin Oak   | Low     | 5 - 10 feet | Sapling |
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| Stand   | Level 4 Cover Type             | Size Density  | Acres      | Stand Age          | BA Range | Managed Site              | General Comments   |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
|---|--------------------------------|---|------------|--------------------|----------|---------------------------|--|---------------|------------------|--------------|-------------|---------|------------------|-----|--------------|-----|----------|--|----------|--------------------|---------|-------------|--|--------|--------------------|-------------|-------------|------------|-----------|----------|--------------|--------------|---------------|-------------|----------|------------|
| <b>60</b>   | 6112 - Lowland Aspen           | Poletimber Poor   | 6.2        | 49                 | 51-80    | N/A                       | This portion of the stand was not harvested in adjacent harvest. Aspen on transition zone from upland JP to lowland brush, mixing into both types. Characterized by pole/sap/log trembling aspen clones separated by U/G/L with scattered, low-vigor aspen stems trying to fill in between. A real mixed bag, sparse overall, starting to break up. Wraps around small feeder stream. Snowmobile trail crosses through in two places.  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
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| Canopy Species  | % Cover                        | Size Class  | DBH        | Age                |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Quaking Aspen   | 75                             | Pole/Sap/Log  | 7          | 49                 |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Jack Pine   | 10                             | Pole/Log  | 9          |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| White Spruce  | 15                             | Pole  | 6          |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Sub-Canopy Species  | Density                        | Avg. Height   | Size       |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Tag Alder   | Low                            | 10 - 20 feet  | Tall Shrub |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Cherry (spp.)   | Low                            | Variable  | Tall Shrub |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| <b>61</b>   | 4130 - Aspen                   | Sapling Medium  | 4.8        | 8                  | Immature | N/A                       | Good aspen regeneration. Some open patches of sedge. Beaver activity in western side of the stand.<br><br>This stand is a split from stand 14, this portion was harvested under contract 72-026-12-01, Bent Trailer Jack Pine. There are some small areas that were not operable because of proximity of railroad grade and stand line, less than a quarter.<br><br>Trembling aspen beset by fungal diseases, & beaver working on its N edge. Beaver cutting & disease-related decline are reducing the aspen component, shifting the stand towards more U, RM, WP. Aspen generally in its 40's (core difficult to age), but with scattered older pioneer stems that are largely breaking up. This narrow stand occupies both upland and lowland ground, extending from the JP edge down onto the tag alder floodplain. N 1/2 cut by small stream that empties into the West Branch of Big Creek. Substantial old RR grade runs the length of the stand. |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
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| Canopy Species  | % Cover                        | Size Class  | DBH        | Age                |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Quaking Aspen   | 90                             | Sapling   | 1          | 8                  |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Northern Pin Oak  | 10                             | Sapling/Pole  | 3          |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Sub-Canopy Species  | Density                        | Avg. Height   | Size       |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Sedges  | Medium                         | Unspecified   | Non-Wood   |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Sweet Fern  | Low                            | < 5 feet  | Tall Shrub |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Bracken Fern  | Low                            | Unspecified   | Non-Wood   |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| <b>64</b>   | 42220 - Natural Jack Pine      | Poletimber Well   | 3.5        | 61                 | 81-110   | N/A                       | This stand was split from stand 18 as long term retention. Stand 18 will be planted as part of the Lovells KW block.   |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
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| Canopy Species  | % Cover                        | Size Class  | DBH        | Age                |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Jack Pine   | 85                             | Pole/Sapling  | 6          | 61                 |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Northern Pin Oak  | 10                             | Log/Pole  | 10         |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Quaking Aspen   | 5                              | Pole  | 8          |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| <b>65</b>   | 3303 - Mixed Low Density Trees | Nonstocked  | 3.6        | 0                  |          | 42120 - Planted Jack Pine | This stand did not meet natural regeneration objective and was trenched in 2019 for planting. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016.   |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
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| Sub-Canopy Species  | Density                        | Avg. Height   | Size       |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Northern Pin Oak  | Low                            | 5 - 10 feet   | Sapling    |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Red Pine  | Low                            | >20 feet  | Log        |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Red Pine  | Trace                          | Variable  | Sapling    |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| <b>66</b>   | 3303 - Mixed Low Density Trees | Nonstocked  | 1.9        | 0                  |          | 42120 - Planted Jack Pine | This stand did not meet natural regeneration objective and was trenched in 2019 for planting. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016.   |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
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| Sub-Canopy Species  | Density                        | Avg. Height   | Size       |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Northern Pin Oak  | Low                            | 5 - 10 feet   | Sapling    |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Red Pine  | Low                            | >20 feet  | Log        |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |
| Red Pine  | Trace                          | Variable  | Sapling    |                    |          |                           |  |               |                  |              |             |         |                  |     |              |     |          |  |          |                    |         |             |  |        |                    |             |             |            |           |          |              |              |               |             |          |            |



| Stand    | Level 4 Cover Type             | Size Density | Acres   | Stand Age | BA Range | Managed Site                               | General Comments  |                    |         |             |            |
|----------|--------------------------------|--------------|---------|-----------|----------|--|---|--------------------|---------|-------------|------------|
| 67       | 3303 - Mixed Low Density Trees | Nonstocked   | 3.3     | 0         |          | 42120 - Planted Jack Pine                  | This stand did not meet natural regeneration objective and was trenched in 2019 for planting. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016.  |                    |         |             |            |
|          |                                |              |         |           |          |  |   | Sub-Canopy Species | Density | Avg. Height | Size       |
|          |                                |              |         |           |          |  |   | Northern Pin Oak   | Low     | 5 - 10 feet | Sapling    |
|          |                                |              |         |           |          |  |   | Red Pine           | Low     | >20 feet    | Log        |
|          |                                |              |         |           |          |  |   |                    |         |             |            |
| 68       | 3303 - Mixed Low Density Trees | Nonstocked   | 4.1     | 0         |          | 42221 - Natural Jack Pine, Mixed Deciduous | This stand was split from stand 18. Western portion failed to regenerate naturally to acceptable species composition. The eastern portion (stand 11) was accepted as having adequate oak regeneration. Stand 18 will be planted as part of the Lovells KW block. Stand harvested under contract 72-026-12-01, Bent Trailer Jack Pine. Western most unit was short wooded, and remainder of sale was whole tree skidded will be interesting to see if there is a noticeable difference in regeneration. Sale was started in June of 2013 and finished in early 2016. |                    |         |             |            |
|          |                                |              |         |           |          |  |   | Sub-Canopy Species | Density | Avg. Height | Size       |
|          |                                |              |         |           |          |  |   | Northern Pin Oak   | Medium  | 5 - 10 feet | Sapling    |
|          |                                |              |         |           |          |  |   | Red Pine           | Low     | >20 feet    | Log        |
|          |                                |              |         |           |          |  |   |                    |         |             |            |
| 70       | 6229 - Mixed lowland shrub     | Nonstocked   | 2.1     |           |          | No   | L with small pocket of N, tamarack colonizing from north.   |                    |         |             |            |
|          |                                |              |         |           |          |  |   | Sub-Canopy Species | Density | Avg. Height | Size       |
|          |                                |              |         |           |          |  |   | Bog Willow         | Medium  |             | Tall Shrub |
|          |                                |              |         |           |          |  |   | Spiraea spp.       | Low     |             | Tall Shrub |
|          |                                |              |         |           |          |  |   | Bog Birch          | Medium  |             | Tall Shrub |
|          |                                |              |         |           |          |  |   | Leatherleaf        | Medium  |             | Tall Shrub |
| Tamarack | Low                            |              | Sapling |           |          |  |   |                    |         |             |            |