



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72021

Entry Year 2021

Acreage: 2,394

County Oscoda

Management Area: Kirtland's Warbler

Revision Date: 2019-07-09

Stand Examiner: Kevin Ehlert

Legal Description:

T28N R1E Sections 7, 18, 19, 20, 30, 31, Greenwood Township

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 terrain varies from outwash plains on Grayling Sand to swamp and lowland floodplains on organic soils with seasonal high water tables.

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

The compartment is bordered primarily by other state land, along with USFWS ownership. There is a small amount of private interface, including the Consumers Power ROW. The compartment is part of the Big Creek Kirtland's Warbler Management Unit.

Unique Natural Features:

In addition to Kirtland's warbler habitat, the Middle Branch of Big Creek is part of a designated Natural Rivers system. Kirtland's warbler and dry prairie plants associated with pine barrens have been found within the compartment. In addition, there is the potential for rare insect species to be found within the pine barrens types, and for rare reptiles to occur along the riparian corridors.

Archeological, Historical, and Cultural Features:

Old railroad grades cross through the compartment and turn-of-the century logging era pine stumps are common. See Locked Comments.

Special Management Designations or Considerations:

The compartment is part of the Big Creek Kirtland's Warbler Management Unit, a High Conservation Value Area (HCVA). In addition, the Middle Branch of Big Creek's corridor is within another HCVA

Watershed and Fisheries Considerations:

This compartment is in the Au Sable River watershed, and contains a portion of Pickerel Lake and the Middle Branch Big Creek downstream of Big Creek Impoundment. Middle Branch Big Creek is a designated trout stream. Prescribed management activities are appropriate for the protection of these waterbodies.

Wildlife Habitat Considerations:

Habitat management for the Kirtland's warbler not only benefits that species, but also provides habitat for other opening-dependent songbirds, and white-tailed deer. Four maintained wildlife openings occur within the compartment. The compartment's aspen and lowland type interface provide habitat for grouse, woodcock and hare. Bear also frequent the area.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pits are located approximately six miles away, but there is good sand & gravel potential within the compartment. The compartment is located at the southern edge of the Antrim Shale gas play. All state mineral rights in Section 7 are currently under lease and held by production. The remainder of the compartment has not been developed for natural gas, and there is unlikely to be further Antrim development within the compartment in the near future. No other known oil & gas potential exists in this area. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Most of the compartment is accessible by county roads, including Pickerel Lake, Williams, Henning, Farrington and Walsh Roads. The snowmobile trail, gas well access roads and two-tracks along utility corridors provide additional access.

Survey Needs:

None

Recreational Facilities and Opportunities:

Part of the Roll Snowmobile trail (#4) runs through the compartment, in addition to the entrance drive for the Walsh Road Trail Camp. Fishing and backcountry camping opportunities exist on Pickerel Lake and the nearby Pickerel Lake Impoundment. The compartment's diversity of habitat types provides good opportunity for deer, bear, grouse, woodcock and hare hunting.

Fire Protection:

Gas wells and buried pipelines occur within the compartment. Wide cleared utility corridors serve as fuel breaks. Water access points include small ponds adjacent to Pickerel Lake Road and the watering hole on the Middle Branch of Big Creek.

Additional Compartment Information:

The following reports from the Inventory are attached:

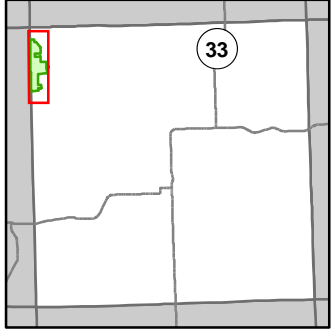
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

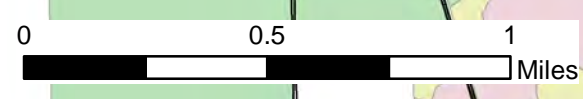
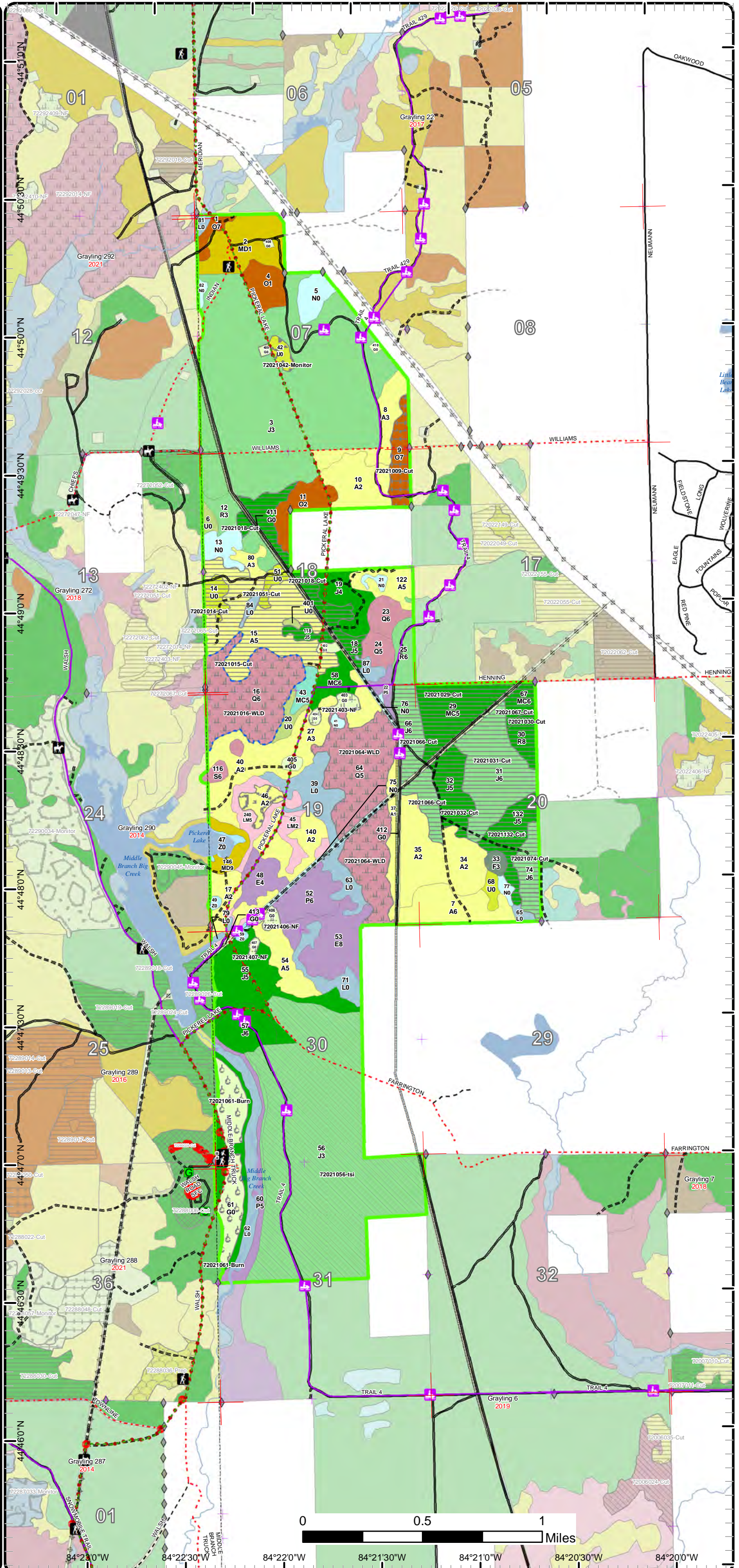
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 21
 T28N, R01W, Sec. 1, 12
 County: Oscoda
 Unit: Grayling
 Mgmt Area: Kirtland's Warbler
 YOE: 2021
 Acres: 2,394 GIS Calculated
 Examiner: Kevin Ehlert
 Map Revised: 12/10/2019
 Map Phase: Post-Review



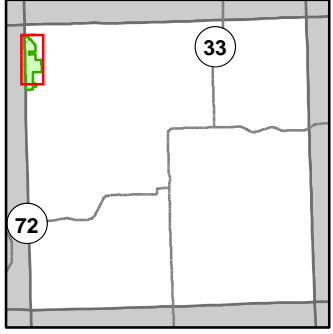
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- + Remonumented Section Corners
- ◆ Field Grade Corners
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- === DNR - Forest Access Route
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- 🏕 Campground
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- Pipeline
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- Treatments with Site Conditions
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- Other Treatment - See Comments
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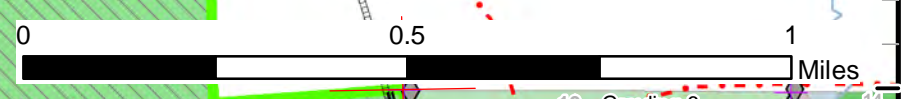
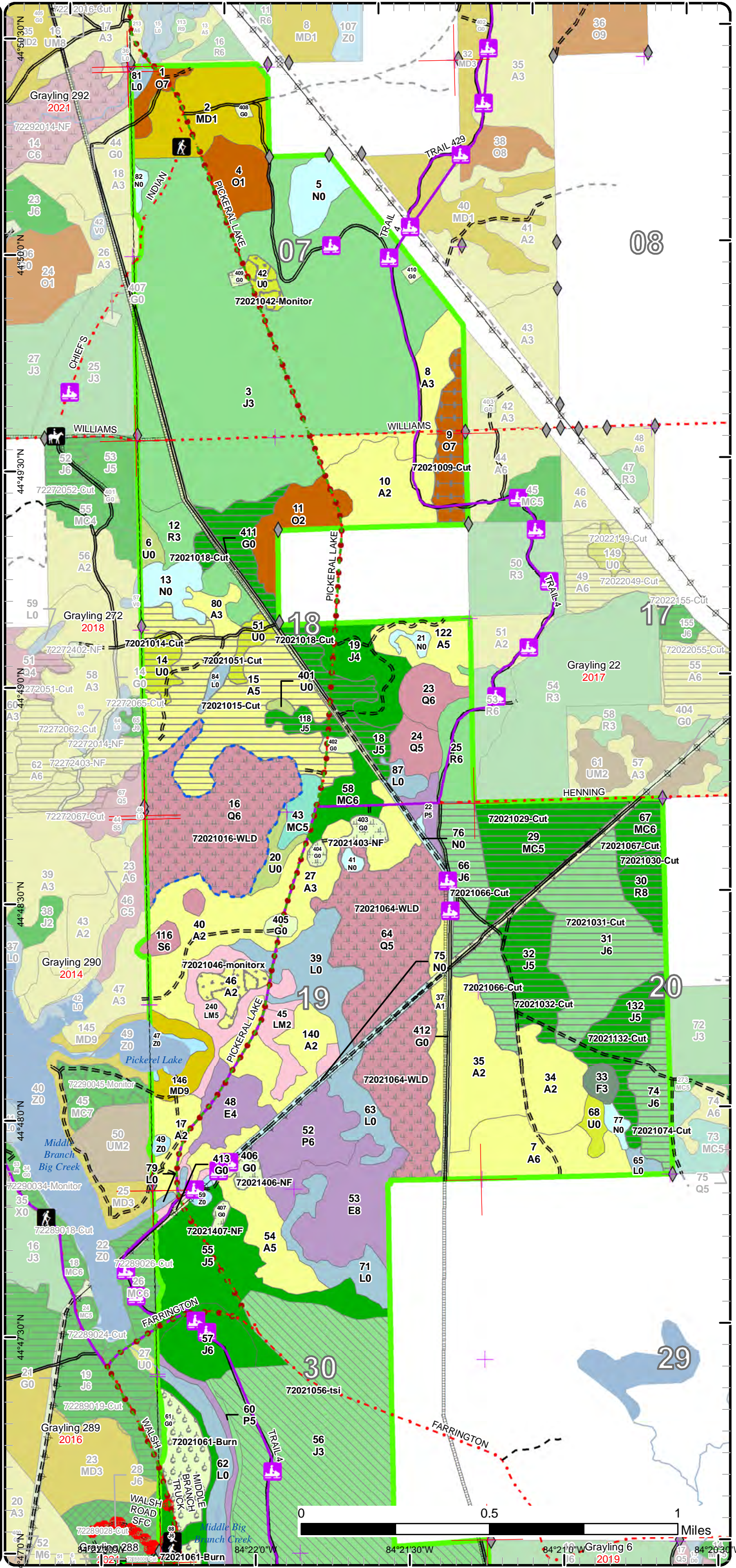
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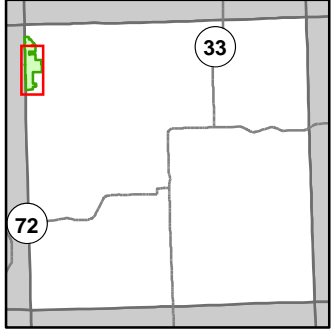
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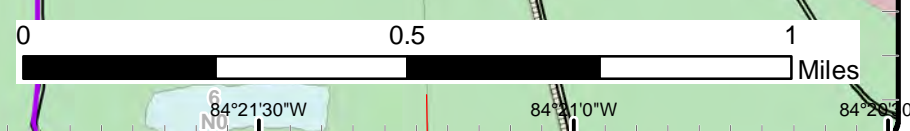
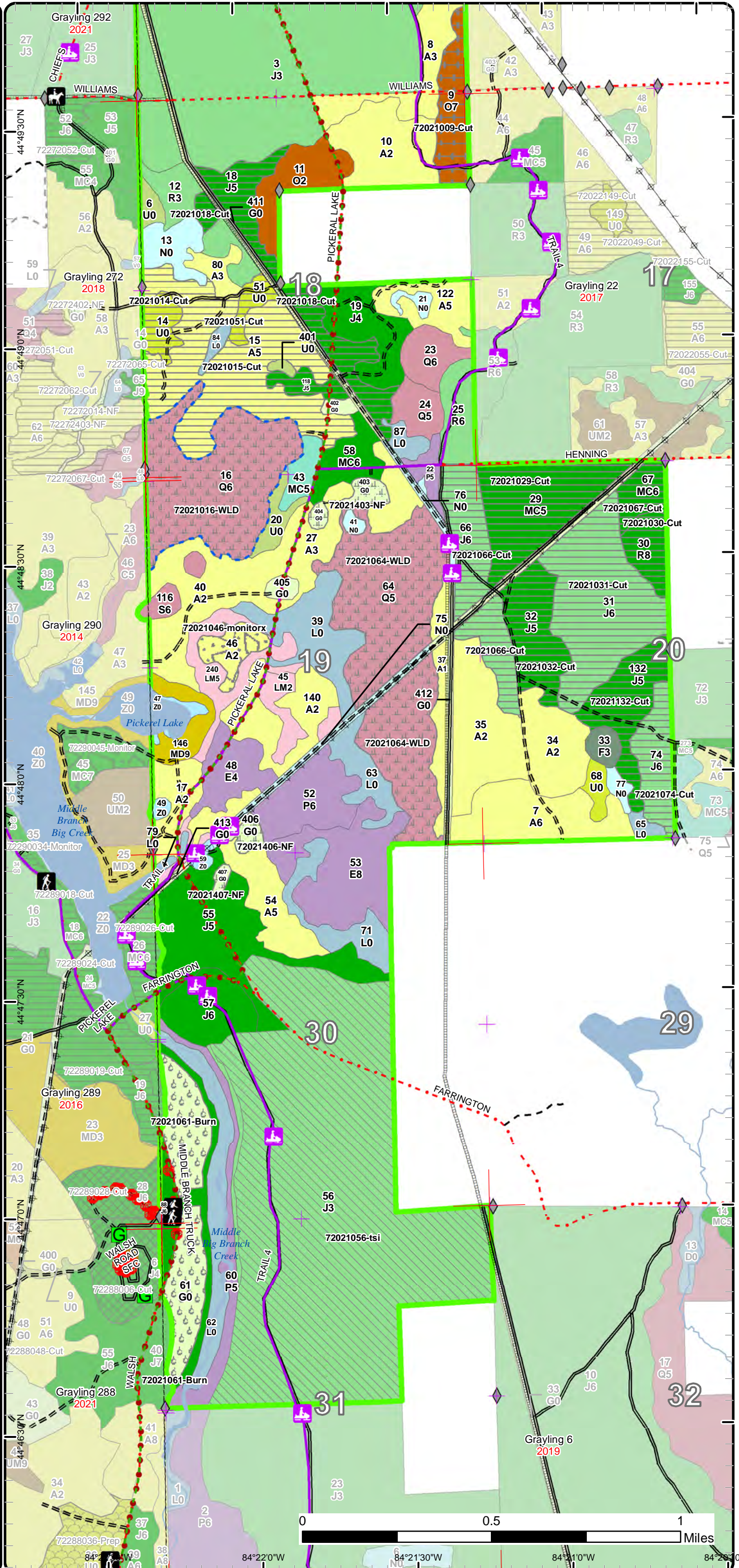
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 Grayling 22 2017
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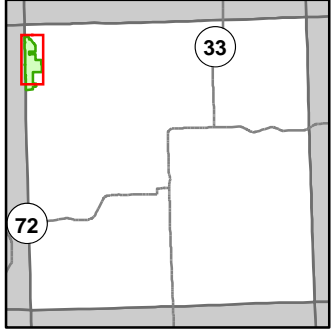


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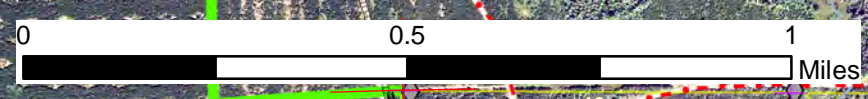
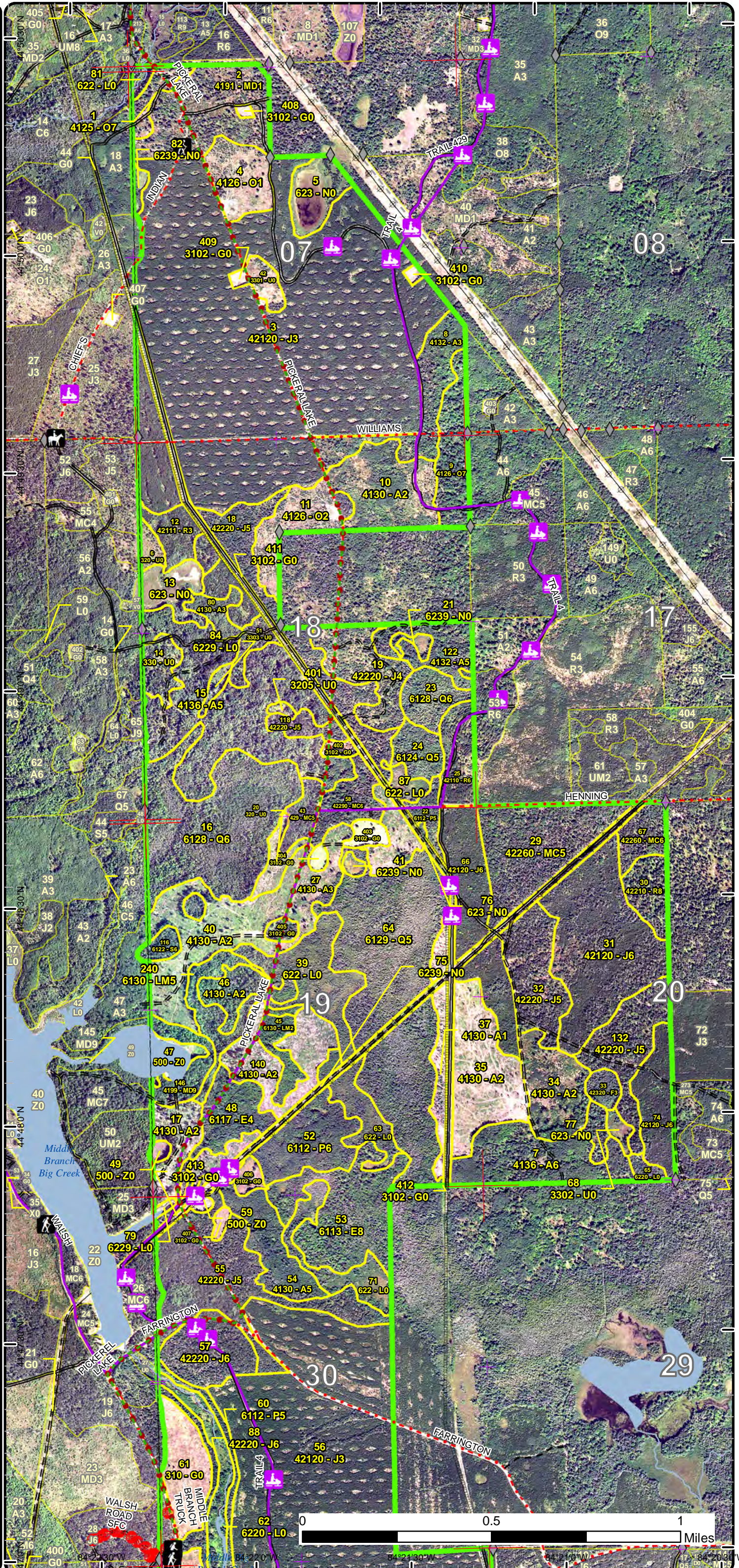


Stand Boundary Map

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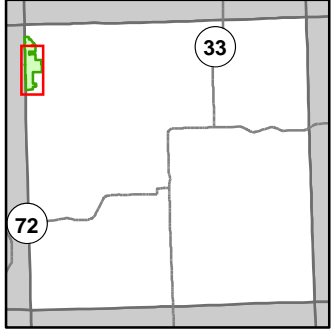
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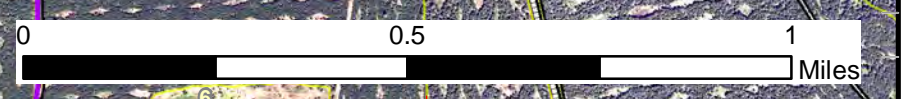
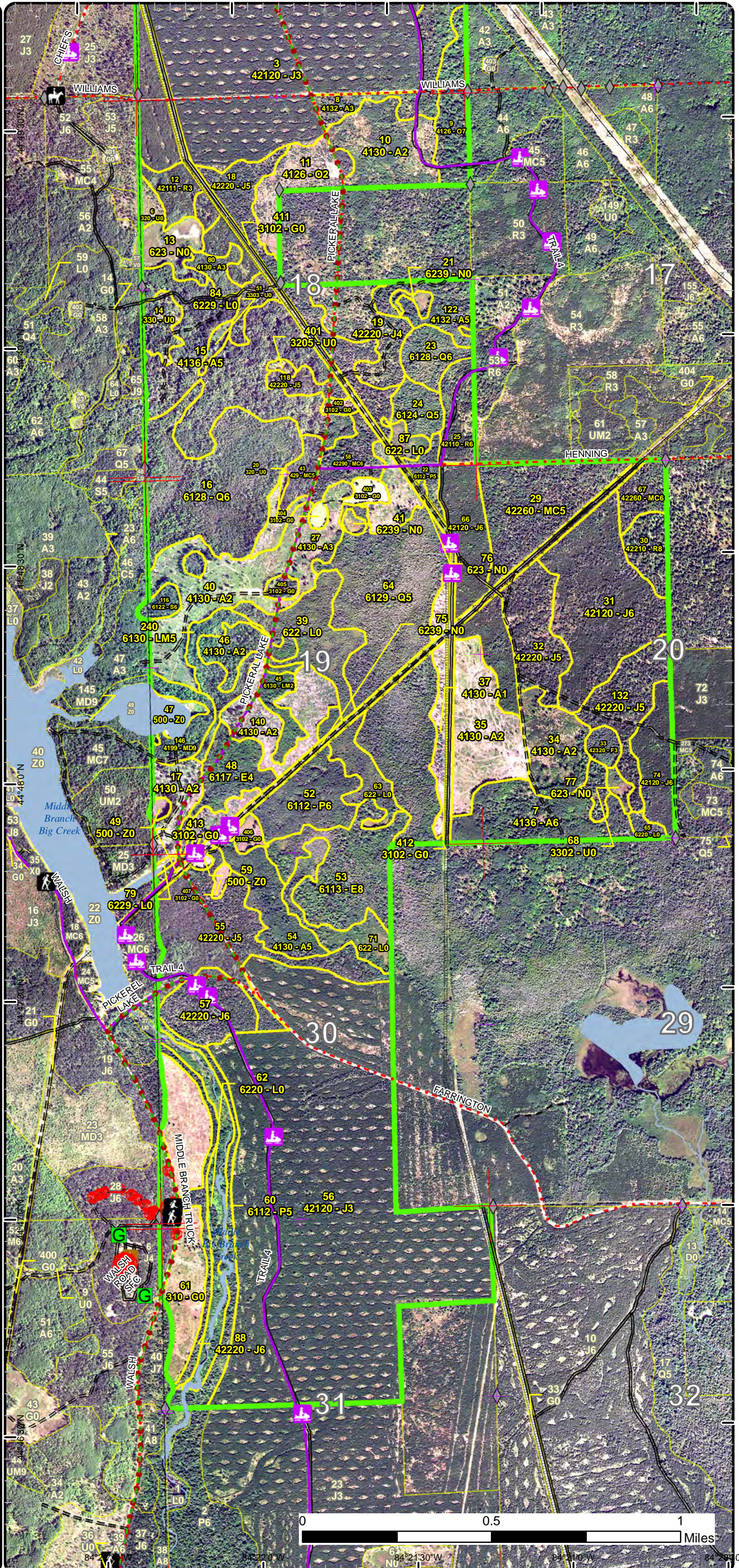
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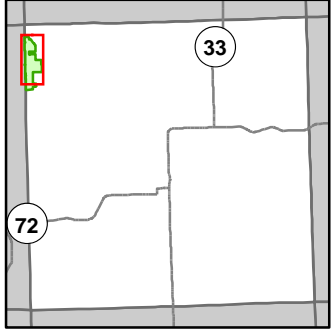


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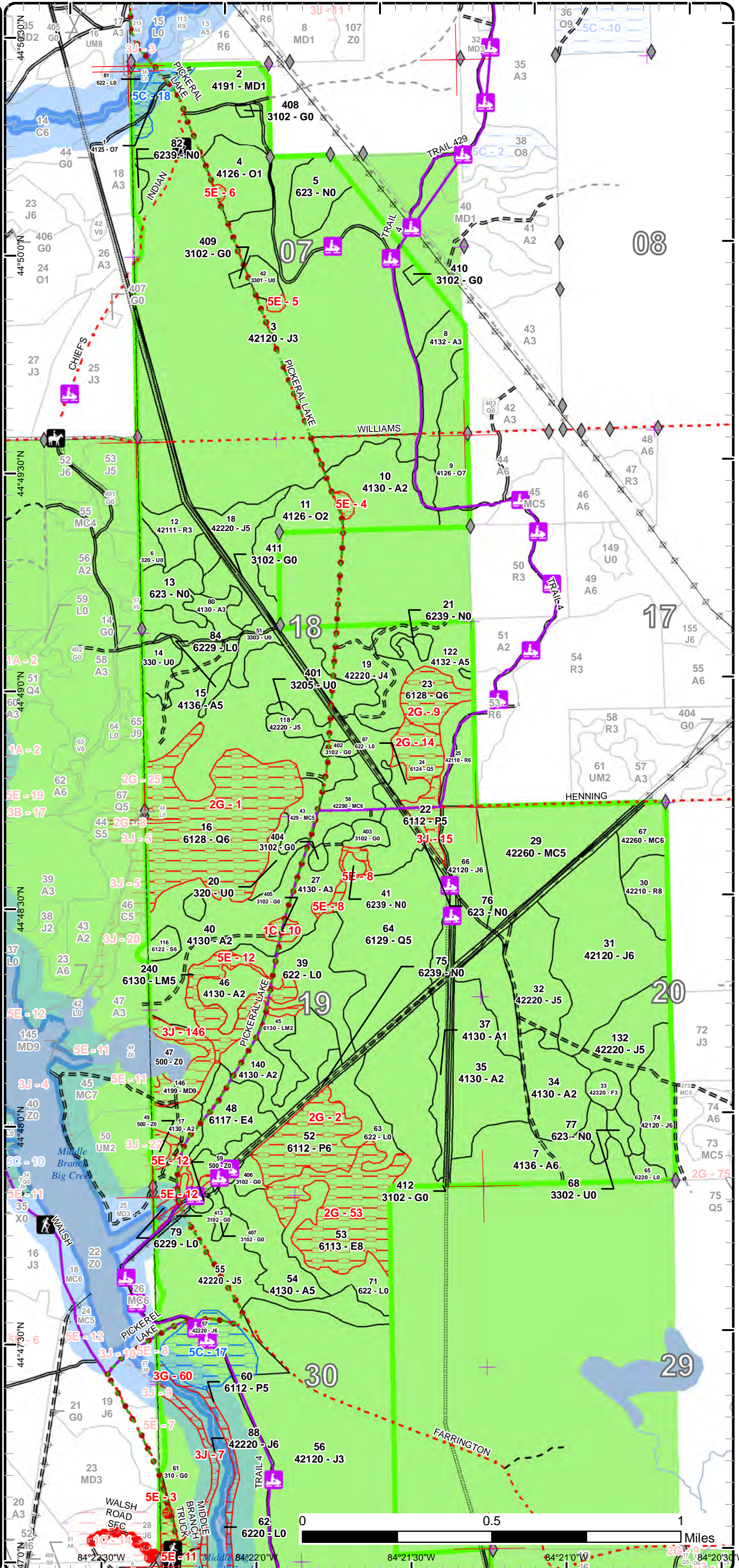


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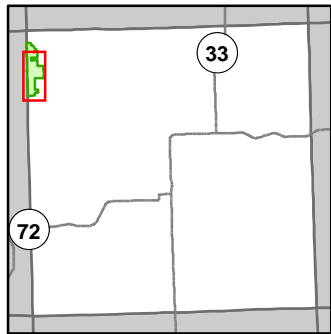


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- Unavailable
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- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams

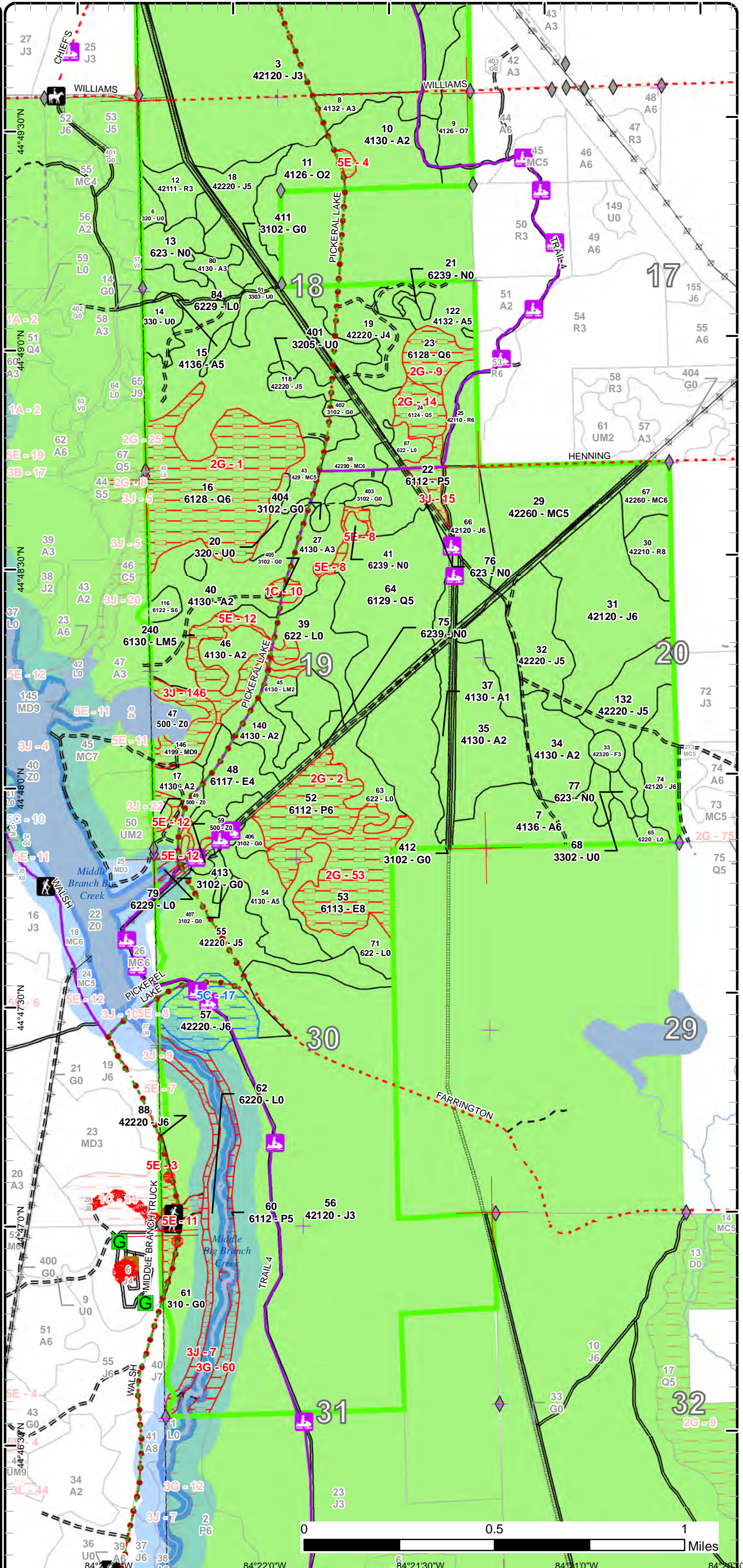


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Report 1 – Total Acres by Cover Type and Age Class



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 | 181 | 58 | 33 | 0 | 58 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 433 |
| Herbaceous Openland | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 |
| Jack Pine | 0 | 0 | 0 | 698 | 125 | 25 | 79 | 68 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1050 |
| Low-Density Trees | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 0 | 26 | 6 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 13 | 0 | 110 | 77 | 0 | 0 | 0 | 0 | 0 | 210 |
| Lowland Deciduous | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| Lowland Mixed Forest | 0 | 0 | 0 | 9 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Lowland Shrub | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Marsh | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| Mixed Upland Deciduous | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 44 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| Oak | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 |
| Red Pine | 0 | 0 | 0 | 18 | 0 | 0 | 16 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Upland Conifers | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Upland Shrub | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Water | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 296 | 181 | 141 | 776 | 133 | 124 | 227 | 87 | 106 | 69 | 52 | 110 | 77 | 0 | 0 | 0 | 0 | 18 | 2394 |



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 21

Total Compartment Acres: 2,394

Commercial Harvest - 414
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|---------------------|------------|-----------|----------------|-----------|-------------|-----------|-------------------|----------|----------|-------------|
| Aspen | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
| Jack Pine | 224 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 224 |
| Low-Density Trees | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Natural Mixed Pines | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Oak | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 21 |
| Red Pine | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | 393 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 414 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|------------|------------|----------|-----------|-----------|------------|------------|-----------------|-------------|
| Current | 414 | 0 | 0 | 0 | 44 | 0 | 17 | 535 | 11 | 1020 |
| Next Step | 0 | 495 | 248 | 0 | 0 | 0 | 458 | 0 | 0 | 1201 |
| Total | 414 | 495 | 248 | 0 | 44 | 0 | 474 | 535 | 11 | 2221 |



Standard

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

Approved Treatments:

| | | | | | | | | | | | |
|---|---------------------|------|---------------------------------|----------------------|----|------|---------|-------------------------|--|-----------|----|
| 9 | 72021009-Cut | 20.9 | 4126 - White, Black, N. Pin Oak | Sawtimber Poor | 98 | 1-50 | Harvest | Overstory Removal | 4191 - Mixed Upland Deciduous with Conifer | Even-Aged | No |
| <p><u>Prescription</u> Harvest all merchantable trees to release advanced regeneration of oak. Protect advanced regeneration of oak through sale specs. Utilize island retention, totaling 3-10% of the stand. Focus retention around areas with higher concentration of conifer(red pine). Protect the snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is mixed oak and other deciduous species with a component of red and white pine. Target 40% canopy cover of oak.</p> <p><u>Other Comment:</u> Boundary with Federal land on South Line</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | | |
| 14 | 72021014-Cut | 9.1 | 330 - Low-Density Trees | Nonstocked | 0 | | Harvest | Clearcut with Retention | 3303 - Mixed Low Density Trees | | No |
| <p><u>Prescription</u> Final harvest all species greater than 2"DBH. Follow BMP recommendations around lowland pockets near the stands West boundary. Treat with adjacent stand 15.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Expect a mosaic of forested/non forested including any combination of mixed shrubs, conifer and deciduous trees.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | | |
| 15 | 72021015-Cut | 86.2 | 4136 - Aspen, Mixed Conifer | Poletimber Medium | 56 | 1-50 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Final harvest all species greater than 2" DBH. Follow guidelines for area based retention, focused around the small lowland pockets near stand 84. Harvest when dormant, Nov. 1 - April 1 in order to maximize regeneration. Hiking/Equestrian trail runs on Pickerel Lake Rd, include appropriate trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen with mixed deciduous and conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | | |



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|--|-------|--|-------------------|-----------|----------|----------------|-------------------------|--|---------------|-------------|
| 16 72021016-WLD | 76.6 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 116 | 51-80 | Other | Other | 6129 - Mixed Coniferous Lowland Forest | Even-Aged | No |
| <p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Too Wet</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 18 72021018-Cut | 37.7 | 42220 - Natural Jack Pine | Poletimber Medium | 64 | 51-80 | Harvest | Clearcut with Retention | 42221 - Natural Jack Pine, Mixed Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Final harvest all species 2" and up. Follow standard retention guidelines utilizing area based retention. Use appropriate trail protection spec for the Equestrian/hiking trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A stand of natural jack pine, aspen and oak meeting minimum acceptable stocking levels. Stocking levels may vary due to variability in current stand stocking. <u>Regen:</u></p> <p><u>Other</u> Interface with Federal land on E edge. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 29 72021029-Cut | 44.4 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Medium | 78 | 1-50 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant <u>Treatments:</u></p> <p><u>Acceptable</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|-------|------------------------------------|-------------------|-----------|----------|----------------|------------------------------|--------------------------|---------------|-------------|
| 30 72021030-Cut | 12.2 | 42210 - Natural Red Pine | Sawtimber Medium | 99 | 51-80 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices layed out in a method to capture the XLog red pine on East boundary. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Acceptable Regen:</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 31 72021031-Cut | 66.5 | 42120 - Planted Jack Pine | Poletimber Well | 32 | 1-50 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Acceptable Regen:</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 32 72021032-Cut | 27.6 | 42220 - Natural Jack Pine | Poletimber Medium | 71 | 51-80 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Acceptable Regen:</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 42 72021042-Monitor | 5.9 | 3301 - Low Density Deciduous Trees | Nonstocked | | Immature | Monitoring | Natural Regen (Re-Inventory) | 4122 - Oak, Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> oak and jack pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /8 /2015</p> | | | | | | | | | | |



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|-------|--------------------------------|----------------|-----------|----------|----------------|------------------------------|--------------------------------|---------------|-------------|
| 46 72021046-monitorx | 10.7 | 4130 - Aspen | Sapling Medium | 2 | Immature | Monitoring | Natural Regen (Re-Inventory) | 4139 - Aspen, Mixed Deciduous | Even-Aged | No |
| <p><u>Prescription</u> check regen <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Aspen with RM-PB and mixed conifers. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2010</p> | | | | | | | | | | |
| 51 72021051-Cut | 6.3 | 3303 - Mixed Low Density Trees | Nonstocked | | | Harvest | Clearcut | 3303 - Mixed Low Density Trees | | No |
| <p><u>Prescription</u> Final harvest all species greater than 2" DBH. No retention due to small stand size Include with treatment of stand 15. Follow BMPs near adjacent lowland (Stand 84). <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Expect a mosaic of forested/non forested including any combination of mixed shrubs, conifer and deciduous trees. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 56 72021056-tsi | 348.1 | 42120 - Planted Jack Pine | Sapling Well | 23 | Immature | Other | Other | 4212 - Planted Jack Pine | Even-Aged | No |
| <p><u>Prescription</u> Precommercial thinning experiment with Michigan State University (MSU) to evaluate the growth response of jack pine. The preparation and administration for this project will be completed by MSU. The work will be contracted out either for precommercial thinning by hand in 2021, with every 3rd tree in each row being removed, or by mechanical thinning in 2020, with every 3rd row being removed. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Protect the Snowmobile Trail. The Natural Rivers 150-foot restricted cutting zone has been removed from the draft treatment area. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p> | | | | | | | | | | |



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|-------|--|-------------------|-----------|----------|----------------|-------------------------|--|---------------|-------------|
| 61 72021061-Burn | 43.5 | 310 - Herbaceous Openland | Nonstocked | 0 | | Burn | Opening | 310 - Herbaceous Openland | | No |
| <p><u>Prescription</u> Burn periodically in order to promote dry sand prairie and pine barrens species and set back woody plant succession.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Dry sand prairie and pine barrens natural communities.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p> | | | | | | | | | | |
| 64 72021064-WLD | 110.1 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 105 | 51-80 | Other | Other | 6129 - Mixed Coniferous Lowland Forest | Even-Aged | No |
| <p><u>Prescription</u> WLD would like to create horizontal cover for snowshoe hares within these stands by hinge cutting and dropping conifer species, primarily black spruce and balsam fir. We will focus primarily along the edges and around canopy gaps within these stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 66 72021066-Cut | 38.7 | 42120 - Planted Jack Pine | Poletimber Well | 32 | 1-50 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|-------|---------------------------------------|-------------------|-----------|----------|----------------|-------------------------|--|---------------|-------------|
| 67 72021067-Cut | 10.9 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Well | 80 | 81-110 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Acceptable Regen:</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 74 72021074-Cut | 20.1 | 42120 - Planted Jack Pine | Poletimber Well | 32 | 1-50 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require low stumps. Leave tops scattered throughout site to promote natural regeneration.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant</p> <p><u>Acceptable Regen:</u> A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking levels of 800 stems per acre at 3rd year regen survey.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 118 72021118-Cut | 6.4 | 42220 - Natural Jack Pine | Poletimber Medium | 64 | 51-80 | Harvest | Clearcut | 42221 - Natural Jack Pine, Mixed Deciduous | Even-Aged | No |
| <p><u>Prescription Specs:</u> Final harvest all species greater than 2" DBH. No retention due to small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of jack pine, aspen and mixed deciduous</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |



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

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|-------------------------|------|---------------------------|-------------------|----|-------|---------|-------------------------|--------------------------|-----------|----|
| 132 72021132-Cut | 27.3 | 42220 - Natural Jack Pine | Poletimber Medium | 71 | 51-80 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
|-------------------------|------|---------------------------|-------------------|----|-------|---------|-------------------------|--------------------------|-----------|----|

Prescription Final harvest stand, all species 2"+ DBH. Follow standard retention guidelines. Design retention islands to represent fire vortices. Require Specs: low stumps. Leave tops scattered throughout site to promote natural regeneration.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Interplant
Treatments:

Acceptable A combination of natural regeneration of jack pine and mixed deciduous with planted jack pine where natural regen does not meet stocking Regen: levels of 800 stems per acre at 3rd year regen survey.

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

| | | | | | | | | | | |
|------------------------|-----|--------------|------------|--|--|--------------|-----------------|--------------|--|----|
| 403 72021403-NF | 4.2 | 3102 - Grass | Nonstocked | | | NonForestMgt | Other - Specify | 3102 - Grass | | No |
|------------------------|-----|--------------|------------|--|--|--------------|-----------------|--------------|--|----|

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

2010 YOE opening maintenance FTP C72-658

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

| | | | | | | | | | | |
|------------------------|-----|--------------|------------|--|--|--------------|-----------------|--------------|--|----|
| 404 72021404-NF | 1.8 | 3102 - Grass | Nonstocked | | | NonForestMgt | Other - Specify | 3102 - Grass | | No |
|------------------------|-----|--------------|------------|--|--|--------------|-----------------|--------------|--|----|

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

2010 YOE opening maintenance FTP C72-658

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|--|-------|-----------------|--------------|-----------|-----------|----------------|------------------|----------------------|---------------|-------------|
| 406 72021406-NF | 3.9 | 3102 - Grass | Nonstocked | | | NonForestMgt | Other - Specify | 3102 - Grass | | No |
| <p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application.</p> <p>2010 YOE opening maintenance FTP C72-658</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 407 72021407-NF | 1.8 | 3102 - Grass | Nonstocked | | Immatu re | NonForestMgt | Other - Specify | 3102 - Grass | | No |
| <p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application.</p> <p>2010 YOE opening maintenance FTP C72-658</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |
| 409 72021409-NF | 1.3 | 3102 - Grass | Nonstocked | | | NonForestMgt | Other - Specify | 3102 - Grass | | No |
| <p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, brushing, tree and shrub planting, Rx burning and herbicide application.</p> <p>2010 YOE opening maintenance FTP C72-658</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p> | | | | | | | | | | |

Total Treatment Acreage Proposed: 1022.2

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 21
Year of Entry: 2021

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | | |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|----|-----|----|----|----|
| | | With Condition | Not Available | | 5C | 1C | 2G | 3G | 3J | 5E |
| 433 | 430 | 0 | 3 | Aspen | | | | | 0 | 3 |
| 96 | 93 | 0 | 3 | Herbaceous Openland | | 3 | 0 | | 0 | 0 |
| 1050 | 1006 | 24 | 20 | Jack Pine | 24 | 0 | | 0 | 11 | 9 |
| 26 | 25 | 0 | 1 | Low-Density Trees | | | | | | 1 |
| 51 | 1 | 0 | 50 | Lowland Aspen/Balsam Poplar | | | 26 | 17 | 7 | |
| 210 | 106 | 0 | 103 | Lowland Conifers | | | 100 | | | 4 |
| 63 | 18 | 0 | 45 | Lowland Deciduous | | | 45 | | | |
| 34 | 12 | 0 | 22 | Lowland Mixed Forest | | | | | 0 | 22 |
| 100 | 100 | 0 | 0 | Lowland Shrub | | | | 0 | 0 | 0 |
| 6 | 6 | 0 | 0 | Lowland Spruce/Fir | | | | | | |
| 50 | 50 | 0 | 0 | Marsh | | | | | | 0 |
| 55 | 43 | 0 | 12 | Mixed Upland Deciduous | | | | | 12 | 0 |
| 69 | 69 | 0 | 0 | Natural Mixed Pines | | | | | | |
| 69 | 59 | 8 | 2 | Oak | 8 | | | | | 2 |
| 46 | 46 | 0 | 0 | Red Pine | | | | | | |
| 8 | 8 | 0 | 0 | Upland Conifers | | | | | | |
| 12 | 12 | 0 | 0 | Upland Shrub | | | | | | |
| 5 | 5 | 0 | 0 | Upland Spruce/Fir | | | | | | |
| 11 | 11 | 0 | 0 | Water | | | | | 0 | 0 |
| 2,394 | 2,101 | 31 | 261 | Total Forested Acres | 31 | 3 | 171 | 17 | 29 | 41 |
| | 88% | 1% | 11% | Relative Percent | | | | | | |

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

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|------------------|---------------------------------|---|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 77 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
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Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 21
Year of Entry: 2021

| | | | | | | | |
|--|--------------------|--|----|--|-------------|-------------|-------------|
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 26 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| Comments: Stand was flagged to recon for SBW risk. Snowshoed drier N & W sides of stand Feb 3, 2016. Ground gets increasingly wet to the S & E (see 1998 DOQ's). A majority of the balsam fir encountered is sub-canopy in stature and pre-commercial. Approx. 2.5 acres flanking the powerline corridor's driest ground has more balsam fir shifted into the pole class. There is SBW defoliation present in the older fir along the powerline corridor, but little interior. I would not recommend cutting this aspen stand early in order to pre-salvage the relatively low volume in merchantable fir present. | | | | | | | |
| 3 | Unavailable | 5E: Long-Term Retention | 8 | 1C: Other dept or div proc/practices | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Riparian buffer left when stand 61 was harvested. | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 21
Year of Entry: 2021

| | | | | | | | |
|--|-------------|---|----|--|-------------|-------------|-------------|
| 8 | Unavailable | 5E: Long-Term Retention | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Part of stand 27's proposed treatment area that was not cut. Merged as inclusions in stand 38 during post-harvest updates. | | | | | | | |
| 9 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Unavailable | 1C: Other dept or div proc/practices | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: see locked comments | | | | | | | |
| 11 | Unavailable | 5E: Long-Term Retention | 2 | (Inactive)3I: Historical / archeological (add locked comments) | Unspecified | Unspecified | Unspecified |
| Comments: Long-term retention for stand 61's harvest. | | | | | | | |
| 12 | Unavailable | 5E: Long-Term Retention | 25 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Retention left when stands 40, 46 & 50 were cut (#033-12), most of it buffers along intermittent streams and wetlands. | | | | | | | |
| 14 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Kevin Ehlert : Examiner

Compartment: 21
Year of Entry: 2021

| | | | | | | | |
|---|--------------------|---|----|---|-------------|-------------|-------------|
| 15 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 6 | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 17 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 24 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Part of KW Management Block 59. Delay treatment and harvest with stand 56. | | | | | | | |
| 18 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Small, low density and volume stand adjacent to Middle Branch, Big Creek. Leave until adjacent stand 2 has grown up more. | | | | | | | |
| 53 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 45 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 60 | Unavailable | 3G: Other Influence zones - See comments | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 146 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

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 |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

Comments

**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 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. |
| 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 | 4125 - Black, N. Pin Oak | Sawtimber Poor | 7.5 | 99 | 1-50 | N/A | JP removed from part of stand in '05 (48-03-01). Very sparse stand, ~10 BA poor health/quality NPO, RP of all age/size classes, and 1 stick JP & TA. Little bit of aspen regen in places, but largely U/G. West edge within Natural River corridor, HCVA. See locked comments. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Northern Pin Oak</td> <td>70</td> <td>Log/Pole</td> <td>13</td> <td>99</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Northern Pin Oak | 70 | Log/Pole | 13 | 99 | Red Maple | 15 | Pole/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Jack Pine | Low | Variable | Sapling | Red Pine | Trace | Variable | Sapling | Northern Pin Oak | Low | 5 - 10 feet | Sapling | Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 70 | Log/Pole | 13 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | Trace | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 4191 - Mixed Upland Deciduous with Conifer | Sapling Poor | 42.6 | 13 | 1-50 | N/A | OPIC - FMD: Cut in 2006 (0480301), removing JP, aspen & RM, leaving all oak and red pine. Older oak dying back, nice large sap oak, RP of all size classes. Regen is a mix of aspen, oak and JP. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>25</td> <td>Pole/Log</td> <td>8</td> <td>62</td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>13</td> </tr> <tr> <td>Northern Pin Oak</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Pine | 25 | Pole/Log | 8 | 62 | Quaking Aspen | 35 | Sapling | 1 | 13 | Northern Pin Oak | 20 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 25 | Pole/Log | 8 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 35 | Sapling | 1 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 20 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 42120 - Planted Jack Pine | Sapling Well | 345.0 | 28 | Immature | N/A | Big Creek KW management unit, HCVA. Cut in '85, planted in 1991 in opposing wave pattern, except NW of snow trail which was straight planted. Scattered cherry in the diamond openings. Trace log size red pine residual. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>95</td> <td>Sapling</td> <td>3</td> <td>28</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Jack Pine | 95 | Sapling | 3 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 95 | Sapling | 3 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4126 - White, Black, N. Pin Oak | Sapling Poor | 18.7 | 14 | Immature | N/A | Completed sale in the summer of 2015 leaving all advanced oak regeneration. For retention, leave two 1/4-acre islands. Advanced oak regen from prior treatment is 10-20' tall. some areas are lower density, but enough oak to be forested stand. South and East end of stand have some larger U/G areas. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>25</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>14</td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | White Oak | 20 | Sapling | 1 | | Black/Red (Hybrid) Oak | 25 | Sapling | 1 | | Northern Pin Oak | 40 | Sapling | 1 | 14 | Quaking Aspen | 15 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 20 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 25 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 40 | Sapling | 1 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 623 - Emergent Wetland | Nonstocked | 14.6 | | | No | Marsh grass/rushes in standing water, rimmed by L (spiraea & salix). Some areas of open water. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 320 - Upland Shrub | Nonstocked | 4.0 | 0 | | No | Big Creek KW management unit, HCVA. Cut in 1992, was trenched to be planted to red pine in 1994. Stand is currently non-forested. Contains a few scattered jack pine, pin oak, and cherry saplings, and sparsely scattered red pine poles. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 36.3 | 46 | 51-80 | N/A | Originally part of stand 35, this section was not cut in the 2016 harvest. Aspen clones separated by U/G and balsam fir inclusions. Variable treatment history, but ages are close enough to combine into one stand: Merch stems (mostly JP) were cut in the NW and SE portions of the stand in '84 (023-84 & 088-82A). Old notes indicate that the aspen in those areas had been "cut out earlier", and that the S end of the stand had been manually cut under FTP W-73 in 1973. Contains scattered conifer throughout and some pockets a few acres in size. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>25</td> <td>Pole/Log</td> <td>8</td> <td>46</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>25</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Quaking Aspen | 25 | Pole/Log | 8 | 46 | Bigtooth Aspen | 25 | Pole/Log | 8 | | Red Maple | 20 | Pole | 7 | | Balsam Fir | 10 | Pole | 8 | | Red Pine | 10 | Log/Pole | 12 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Red Maple | Low | 5 - 10 feet | Sapling | Balsam Fir | Low | Variable | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 25 | Pole/Log | 8 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 25 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 20 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 10 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|----------------|---------|------------|----------|--------------|--|----|--------------|----|----|------------------------|----|--------------|----|----|--|----|--------------------|---------|-------------|---|------------------------|--------------------|-------------|-------------|-----------|--------------|-------------|-------------|-----------|--------|-------------|---------|---------------|--------|--------------|---------|--|--|--|
| 8 | 4132 - Aspen, Jack Pine | Sapling Well | 25.9 | 25 | Immature | N/A | Big Creek KW management unit, HCVA. Windthrown trees salvaged under two sales in 1993. Low-density resid oak, JP & aspen poles over a nice mix of natural regen (aspen, JP, oak & RM). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>60</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>Jack Pine</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Quaking Aspen | 60 | Sapling/Pole | 4 | 25 | Jack Pine | 20 | Pole/Sapling | 5 | | Red Maple | 10 | Sapling/Pole | 2 | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 60 | Sapling/Pole | 4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 20 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling/Pole | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 4126 - White, Black, N. Pin Oak | Sawtimber Poor | 20.9 | 98 | 1-50 | N/A | Previous notes indicate "wind blown trees were salvaged in 1993 from wind storm" North of Williams Rd. Mostly mature pin and white oak with scattered white, red and jack pine in all size classes. Oak is ranges from poor form with multiple stems or large wolfy branches to good quality sawtimber. Sub-canopy is mixed deciduous resulting from the previous storm and salvage. Some areas heavy to aspen red maple, but a lot of areas with significant white and pin oak components, much of which is 5-10' tall. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 48 | Log | 14 | 98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 40 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 4130 - Aspen | Sapling Medium | 33.1 | 14 | Immature | N/A | Cut 2005 (0480301). Variable regen coverage (aspen with U1/O1 inclusions), along with resid from cut (small JP, RP and aspen poles). Big Creek KW management unit, HCVA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>70</td> <td>Sapling</td> <td>1</td> <td>14</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Quaking Aspen | 70 | Sapling | 1 | 14 | Black/Red (Hybrid) Oak | 15 | Sapling/Pole | 3 | | Jack Pine | 15 | Sapling | 1 | | <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>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 70 | Sapling | 1 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 15 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 15 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 4126 - White, Black, N. Pin Oak | Sapling Medium | 21.4 | 19 | Immature | N/A | Stand was cut protecting all advanced oak regeneration. Mostly immature oak with scattered red maple. Some jack pine filling in where other regen was light. Retention island of jp poles with mixed oak underneath on east side of the rd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>20</td> <td>Sapling</td> <td>3</td> <td>19</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>65</td> <td>Sapling</td> <td>3</td> <td>19</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | White Oak | 20 | Sapling | 3 | 19 | Black/Red (Hybrid) Oak | 65 | Sapling | 3 | 19 | Red Maple | 10 | Sapling | 1 | | <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>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Cherry | Medium | 5 - 10 feet | Sapling | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 20 | Sapling | 3 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 65 | Sapling | 3 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 42111 - Planted Red Pine, Mixed Deciduous | Sapling Well | 17.8 | 25 | Immature | N/A | Big Creek KW management unit, HCVA. Cut in 1992, planted to red pine in 1994. RP is 15-20' tall, mostly large saps, some large enough to be 1 stick poles. Was largely overtopped by deciduous regen competition (cherry, aspen & oak) & JP early on. ~ 1-foot of internodal growth/yr. Contains a few inclusions of quaking aspen, and a small lowland pocket in the north section that contains tag alder surrounded by aspen. Adjacent stand 6 was trenched with stand 12, but either not planted or failed. Previous notes: "herbicide to release the red pine". Stand 112 is rest of type split off to south. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 70 | Sapling/Pole | 4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 623 - Emergent Wetland | Nonstocked | 12.9 | | | No | Marsh with some open water, surrounded by L (salix, spiraea, swamp birch, tag alder). Island has low ground jp and rp saps scattered | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

| | | | | | | | |
|-----------|-------------------------|------------|-----|---|--|----|---|
| 14 | 330 - Low-Density Trees | Nonstocked | 9.1 | 0 | | No | U/G type (cherry, hawthorn & amelanchier) with brushy JP & RP and aspen pockets. Old notes indicate that it was cut by timber sale in 1977. Regeneration has slowly filled in since, resulting in a multi aged mix of poles and saplings scattered through the mostly open stand. Contains scrubby jack pine, pin oak, quaking aspen and black cherry. West end contains two lowland inclusions. there is a small amount of balsam fir, mostly in groups near the lower ground areas. When stand 15 is harvested, it may be a good idea to expand treatment into this stand where there is merchantable timber to try expanding forested area back into this stand. |
|-----------|-------------------------|------------|-----|---|--|----|---|

| | | | | | | | |
|-----------|-----------------------------|-------------------|------|----|------|-----|---|
| 15 | 4136 - Aspen, Mixed Conifer | Poletimber Medium | 86.2 | 56 | 1-50 | N/A | Previous notes indicate that the area was KG bladed in 1963. The resulting stand is highly variable, with multiple age/size classes of aspen (older resid that wasn't run over, poles regenerated the year after the blading, and younger poles/large saps as the clones continue to colonize U/G inclusions). Stand is a real mixed bag; in addition to the variable aspen, there is JP, RP, WP, balsam fir, etc. in small inclusions and as scattered individual stems. Aspen ages range from 32-68 years, with most of it in the younger cohort. Some top die-back in the oldest aspen component. See locked comments. |
|-----------|-----------------------------|-------------------|------|----|------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------|---------|--------------|---------|
| Quaking Aspen | 70 | Pole/Sap/Log | 8 | 56 | Black Cherry | Medium | 5 - 10 feet | Sapling |
| Black Cherry | 10 | Pole/Sapling | 7 | | Quaking Aspen | Medium | 10 - 20 feet | Sapling |
| Jack Pine | 15 | Pole/Log | 8 | | Northern Pin Oak | Low | Variable | Sapling |

| | | | | | | | |
|-----------|--|-----------------|------|-----|-------|-----|--|
| 16 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 76.6 | 116 | 51-80 | N/A | Lowland conifer stand. Cedar mixed with black spruce, balsam fir and lowland hardwoods and a few scattered super canopy white/red pine in higher spots. Lots of standing water. Has a lot of snags and woody debris, especially among the hardwoods. Thick areas of balsam fir saplings common in sub canopy. Some flooded areas with lowland shrubs. Swamp drains to SW to eventually drain into Middle Branch Of Big Creek. West end of stand has an upland inclusion that is approximately 2.5 acres, containing a mix of log/xlog red pine, white pine, and red maple that is surrounded by lowland. |
|-----------|--|-----------------|------|-----|-------|-----|--|

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Balsam Fir | 20 | Pole/Log | 8 | | Balsam Fir | High | Variable | Sapling |
| Northern White Cedar | 40 | Pole/Log | 9 | 116 | | | | |
| Black Spruce | 20 | Pole/Log | 8 | | | | | |
| Quaking Aspen | 13 | Log/Pole | 10 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------|-------------------|---------|------------|-------------|-----------------------------|--|---------------|----|--------------|---|----|------------------|----|------------------|---|--|---|----|--------------------|---------|-------------|------|------------------|------|-------------|---------|-----------|--------|--------------|---------|--|--|
| 17 | 4130 - Aspen | Sapling Medium | 21.1 | 3 | Immature | N/A | <p>Was final harvested by Dec 2015 (#033-12), cutting stems 2"+ DBH except oak, hemlock, cedar, and RP-WP >26" diam at stump. Residual in this section of the previous stand is mostly oak, with approximately 10sqft per acre average present. Tops were bunched for chipping but couldn't be skidded due to wet ground in Dec, then had to be left because the regen had jumped up before the contractor had chipping capacity the following summer. Snowmobile trail bisects stand. Previous stand comments: Ownership cards show that the area has a long, varied treatment history (portions treated by salvage/removals in the 50's & 60's, KG blading in the mid '60's, manual cutting by Wildlife FTP in '72). Aspen with RM, PB, WP & RP on mostly dry ground with L/Q/P mixing in along the stand's wide transition zone with adjacent lowland types. Dense large sap/small pole balsam fir in the understory across much of the stand, with inclusions of majority fir coverage. Far southwest corner is on a dry ridge, with bigtooth aspen, oak and RP. Two intermittent drains cross through the type west of Pickerel Lake Rd. The stand is on ground close to the water table, with parts experiencing seasonal flooding during snowmelt. The increasing balsam fir component is a concern in maintaining the aspen management objective. Harvest all stems 2" and up. Leave the super-canopy WP & RP trees that occur in small clumps along Pickerel Lake Road. If prescription approved, harvest stand 50 at the same time. Maximize horizontal cover, leave tops, fell marked boundary line trees into adjacent stand 16. Retention priority is along drains. 11/10/09 Compt Review comments: Wildlife priority to remove balsam fir . . . protect snowmobile trail if winter cut. See locked comments regarding where not to put landing.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 70 | Sapling | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 15 | Sapling/Pole/Log | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 42220 - Natural Jack Pine | Poletimber Medium | 37.7 | 64 | 51-80 | N/A | <p>North part of stand is within the Big Creek KW management unit, HCVA. Lower stocking in the North part of the stand. JP poles with occasional saw. Poor form, open grown stems are common. TA mixed in. Narrow strip of older JP rimming the L/Q types to southeast. Portions were salvaged in 1993 following a tornado (0299302).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>75</td> <td>Pole/Log</td> <td>8</td> <td>64</td> </tr> <tr> <td>Quaking Aspen</td> <td>18</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Jack Pine | 75 | Pole/Log | 8 | 64 | Quaking Aspen | 18 | Pole | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Low | 5 - 10 feet | Sapling | Jack Pine | Medium | 10 - 20 feet | Sapling | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 75 | Pole/Log | 8 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 18 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 42220 - Natural Jack Pine | Poletimber Poor | 24.8 | 42 | 1-50 | N/A | <p>Open grown jack pine with patches of quaking aspen. Mix of poles and saplings. Cherry and some serviceberry in the sub canopy.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>80</td> <td>Pole/Sapling</td> <td>6</td> <td>42</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Jack Pine | 80 | Pole/Sapling | 6 | 42 | Quaking Aspen | 20 | Pole/Sapling | 5 | | <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>Black Cherry</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Cherry | High | 5 - 10 feet | Sapling | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 80 | Pole/Sapling | 6 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 20 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 320 - Upland Shrub | Nonstocked | 6.7 | 0 | Unspecified | 429 - Mixed Upland Conifers | <p>Stand was final harvested by June, 2015 (#033-12). Regen is mostly cherry, aspen, red maple and pin oak. Some jack pine and spruce regen scattered throughout. Grades down to adjacent lowland stand. Presence of alder throughout it low spots indicates a high water table.</p> <p>OI Rx: Final harvest patches/strips near the swamp (stand 16) in conjunction with the adjacent aspen harvest (stand 40) and/or by WLD FTP. Maximize horizontal cover, leave tops, and drop marked boundary line trees into the adjacent swamp (stand 16).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 6239 - Mixed Emergent Wetland | Nonstocked | 2.6 | | | No | <p>Marsh grass, standing water, with salix, spiraea, tag alder. Stand line brought out to west to pick up smaller similar L-type.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|-----------------------|--|-------------------|-------------------|------------|------------|---------------------------|--|--------|
| 22 | 6112 - Lowland Aspen | Poletimber Medium | 6.2 | 56 | 1-50 | N/A | Quaking aspen on ground close to the water table, with the NW seasonally flooded and an intermittent drain cutting through. Size classes range from large sap to small saw. Balsam fir present in canopy and sub-canopy. Small stand split by road and stream into 4 pieces. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Quaking Aspen | | 70 | Pole/Sap/Log | 8 | 56 | Balsam Fir | | Low |
| Balsam Fir | | 28 | Pole/Log | 8 | | Quaking Aspen | | Low |
| 23 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 12.9 | 87 | 51-80 | N/A | Was in the same harvest boundary as stand 24, but the contract expired before this north unit was cut. Scattered short NWC & spindly black spruce poles over large sap balsam fir and tag alder. Sphagnum moss groundcover on open root mat over black muck, standing water. Drier to N, with TA mixing in transition to stand 122. Stand has higher density and older dominant age than stand 24, but other than that they are very similar. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Black Spruce | | 30 | Pole/Log | 9 | 87 | Tag Alder | | Medium |
| Northern White Cedar | | 20 | Pole/Log | 9 | | Black Spruce | | Medium |
| Balsam Fir | | 15 | Pole/Log | 8 | | Balsam Fir | | Medium |
| Quaking Aspen | | 10 | Pole/Log | 9 | | | | |
| 24 | 6124 - Lowland Spruce-Fir | Poletimber Medium | 10.4 | 49 | 1-50 | N/A | Large sap/small pole BS, BF & tamarack with occasional large pole/small cull saw NWC. Tag alder over sphagnum groundcover on open root mat with black mud/standing water. Sparse areas and L-type inclusions (particularly to the west side). Merchantable softwood was removed over most of the stand under timbersale 006-83A until the sale expired in 1986. Notes indicate that the best available timber was removed and poor quality material was not cleaned up before the contract expired. Stand 23 to the North was also included in the sale, but nothing was cut in that unit before contract expired. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Balsam Fir | | 20 | Pole/Sapling | 7 | | Black Spruce | | Low |
| Black Spruce | | 33 | Pole/Sapling | 7 | 49 | Balsam Fir | | Medium |
| Tamarack | | 28 | Pole/Sapling | 6 | | Tamarack | | Low |
| Red Maple | | 10 | Pole/Sapling | 6 | | Alder | | Medium |
| 25 | 42110 - Planted Red Pine | Poletimber Well | 15.6 | 55 | 81-110 | N/A | RP plantation third-row thinned in 2006 (72-049-03-01). Highly variable stocking; was planted around residual oak, and had inclusions of JP. quaking aspen inclusions are primarily west of the snow trail. Consider final harvesting this stand west of the snowmobile trail and converting that portion to aspen when adjacent stand 22 is cut. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Pine | | 90 | Pole/Log | 8 | 55 | Northern Pin Oak | | Low |
| 27 | 4130 - Aspen | Sapling Well | 26.1 | 3 | Immature | N/A | Was final harvested by Dec 2015 (#033-12), cutting stems 2"+ DBH except oak, hemlock, cedar, and RP-WP > 26" diam at stump. Approx. 2 acres near the swamp were too wet for operations within the rutting spec, so they were left uncut. Tops were bunched for chipping but couldn't be skidded in Dec due to wet ground, then had to be left because the regen jumped up before the contractor had chipping capacity the following summer. Stand passed regen survey. Stocking is variable, with some sparse areas, mostly near lowland shrub inclusions. Residual RP, WP, oak, and cedar total is less than 10 sqft/acre. Old notes indicate the stand was KG bladed 1966. Adjacent to the snowmobile trail. OI Rx: Final harvest 2" and up except the oak and few large RP & WP saw. Maximize horizontal cover, leave tops, fell marked boundary line trees into adjacent stand 38. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Quaking Aspen | | 75 | Sapling | 1 | 3 | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|-----------------------|---------------------------------------|-------------------|-------------------|------------|------------|---------------------------|---|--|
| 29 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Medium | 44.4 | 78 | 1-50 | N/A | Big Creek KW management unit, HCVA. JP stand. Much of the JP is over mature with significant mortality. Pockets of TA to N & NE, more oak mixed in to the N. Old notes: "Hold and cut the whole block in 20 years. Then the J3 will be 34 years old and big enough to cut. This block if cut then will be thirty years younger then blocks 3 and 4 and 25 years younger then blocks 1 and 2. Just about the time blocks 1 and 2 are getting to big for nesting." | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Jack Pine | | 57 | Pole/Log | 9 | 78 | Northern Pin Oak | | |
| Quaking Aspen | | 15 | Pole/Log | 8 | | White Oak | | |
| Red Pine | | 10 | Log/Pole | 10 | | Balsam Fir | | |
| Northern Pin Oak | | 12 | Log/Pole | 12 | | Black Cherry | | |
| 30 | 42210 - Natural Red Pine | Sawtimber Medium | 12.2 | 99 | 51-80 | N/A | Big Creek KW management unit, HCVA. Previous notes indicate to cut in 2021. Open-grown RP & oak saw with some RP, JP & oak poles & saps, but generally open below. East side of stand contains some large diameter red pine, 24"DBH+. Consider retaining part of this area during layout of KW block. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Pine | | 60 | Log/XLog | 16 | 99 | | | |
| Northern Pin Oak | | 25 | Log/Pole | 14 | | | | |
| Jack Pine | | 15 | Pole/Sapling | 7 | | | | |
| 31 | 42120 - Planted Jack Pine | Poletimber Well | 66.5 | 32 | 1-50 | N/A | OPIC - FMD: Big Creek KW management unit, HCVA. Previous notes indicate that it was planted in 1987, that part of it burned in a wildfire (west center), and to cut it in 2021. The 1987 planting filled in open areas, with swaths of residual JP & RP inclusions. Used previous SI. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Jack Pine | | 85 | Pole/Sapling | 5 | 32 | Northern Pin Oak | | |
| Red Pine | | 7 | Log/Pole | 12 | | | | |
| 32 | 42220 - Natural Jack Pine | Poletimber Medium | 27.6 | 71 | 51-80 | N/A | Big Creek KW management unit, HCVA. Previous notes indicate to cut the stand in 2021, and that a wildfire burned part of the stand. Variable age & stocking in JP poles, pockets of RP, U/G inclusions, small pockets of J3 planted in 1987. Very similar to stand 29 with slightly less mortality. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Jack Pine | | 65 | Pole/Log | 9 | 71 | Northern Pin Oak | | |
| Red Pine | | 15 | Log/Pole | 12 | | Black Cherry | | |
| Quaking Aspen | | 10 | Pole/Log | 8 | | | | |
| 33 | 42320 - Upland Spruce | Sapling Well | 4.9 | 42 | | N/A | Dense saplings and small pole size black spruce on sphagnum matt. Most stems are sub-merchantable with scattered spruce and spindly tamarack poles. Tag alder in openings. Grades down to stand 77 marsh. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Tamarack | | 15 | Sapling/Pole | 4 | | Balsam Fir | | |
| Black Spruce | | 70 | Sapling/Pole | 4 | 42 | Black Spruce | | |
| Jack Pine | | 15 | Pole/Sap/Log | 8 | | | | |
| 34 | 4130 - Aspen | Sapling Medium | 24.7 | 13 | Immature | N/A | Cut in 2006 (72-050-03-01). Scattered oak and RP saw were left, mostly in the SE. Aspen, RM and oak regen; some lower density pockets, but filling in nicely. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Quaking Aspen | | 80 | Sapling | 1 | 13 | | | |
| Red Maple | | 10 | Sapling | 1 | | | | |
| 35 | 4130 - Aspen | Sapling Medium | 38.1 | 3 | Immature | N/A | Stand 35 was harvested early through a variance due to spruce budworm concerns by August 2016 (#13-16), cutting stems 2"+ DBH except the trace of oak and the green-ringed witness trees. The variance also approved follow-up habitat improvement work by WLD under an FTP they will initiate. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Quaking Aspen | | 85 | Sapling | 1 | 3 | | | |
| Red Maple | | 10 | Sapling | 1 | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | |
|---|------------------------------------|----------------|---------|------------|----------|--------------|--|---------------|----|---------|---|---|------------|----|---------|---|--|--|--|--|--|
| 37 | 4130 - Aspen | Sapling Poor | 13.0 | 3 | Immature | N/A | Was harvested by August 2016 (#13-16) through a variance due to spruce budworm infestation, cutting 2"+ DBH except the trace of oak. Standing dead and some nearly dead fir were left for the future habitat work also approved by the variance (WLD will initiate that FTP). The narrow uncut west edge of this stand on the low ground was merged with the adjacent cedar stand 64, but that strip is still available for the habitat work. | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>3</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Quaking Aspen | 85 | Sapling | 1 | 3 | Balsam Fir | 10 | Sapling | 2 | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 85 | Sapling | 1 | 3 | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Sapling | 2 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 39 | 622 - Lowland Shrub | Nonstocked | 28.8 | | | No | Low ground with tag alder and low density balsam fir, black spruce, scattered NWC and small pockets of Bam & TA. Most of the stand is flooded. Grades into adjacent swamp type. | | | | | | | | | | | | | | |
| 40 | 4130 - Aspen | Sapling Medium | 44.8 | 4 | Immature | N/A | Was final harvested by June 2015 (#033-12), cutting stems 2"+ DBH except oak, hemlock, cedar, and RP-WP >26" diam at stump. There are narrow inclusions of uncut timber around grassy openings and adjacent wetland stands. Regeneration is filling in well. Some super canopy RP, WP and oak left, mostly in small clumps. Some areas required frozen conditions during harvest to prevent rutting. lots of lowland indicators throughout. some U inclusions. OPIC - FMD: Ownership cards show that the area has a long, varied treatment history (portions treated by salvage/removals in the 50's & 60's, KG blading in the mid '60's, manual cutting by Wildlife FTP in '72). Aspen with RM, PB, WP & RP on mostly dry ground with L/Q/P mixing in along the stand's wide transition zone with adjacent lowland types. Dense large sap/small pole balsam fir in the understory across much of the stand, with inclusions of majority fir coverage. Far southwest corner is on a dry ridge, with bigtooth aspen, oak and RP. Two intermittent drains cross through the type west of Pickerel Lake Rd. The stand is on ground close to the water table, with parts experiencing seasonal flooding during snowmelt. The increasing balsam fir component is a concern in maintaining the aspen management objective. Harvest all stems 2" and up. Leave the super-canopy WP & RP trees that occur in small clumps along Pickerel Lake Road. If prescription approved, harvest stand 50 at the same time. Maximize horizontal cover, leave tops, fell marked boundary line trees into adjacent stand 16. Retention priority is along drains. 11/10/09 Compt Review comments: Wildlife priority to remove balsam fir . . . protect snowmobile trail if winter cut. Used previous SI. See locked comments regarding where not to put landing. | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>87</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Red Maple</td> <td>8</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Quaking Aspen | 87 | Sapling | 1 | 4 | Red Maple | 8 | Sapling | 1 | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 87 | Sapling | 1 | 4 | | | | | | | | | | | | | | | | | |
| Red Maple | 8 | Sapling | 1 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 41 | 6239 - Mixed Emergent Wetland | Nonstocked | 1.8 | | | No | Emergent grasses, standing water, with L at margins (tag alder, salix). | | | | | | | | | | | | | | |
| 42 | 3301 - Low Density Deciduous Trees | Nonstocked | 5.9 | | Immature | No | Big Creek KW management unit, HCVA. Open stand. scattered pin and white oak saps. Some 10-20' tall and some not passing browse line. Less than 25% canopy cover. Previous treatment: Remove the merch JP, releasing the oak regen. For retention, leave a 1/4-acre island at the south end. | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------|------------|------------|----------|--------------|--|----|--------------|---|----|---------------|----|--------------|---|----|---|----|--------------------|---------|-------------|--|------------|--------------------|----------|-------------|--|-----------|--------------------|-------------|-------------|------|-----------|-----|-------------|------------|------------|------|--------------|---------|--|--|--|--|
| 43 | 429 - Mixed Upland Conifers | Poletimber Medium | 7.7 | 39 | 1-50 | N/A | Dry ground grading down to swamp. Heavy lg sap/small pole BF just below the short JP poles. Some TA along PL Rd., few super canopy rp.. Final harvest patches/strips near the swamp (stand 16) in conjunction with the adjacent aspen harvest (stand 40) and/or by WLD FTP. Maximize horizontal cover, leave tops, and drop marked boundary line trees into the adjacent swamp (stand 16). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Balsam Fir</td> <td>45</td> <td>Pole/Sap/Log</td> <td>6</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>45</td> <td>Pole/Log</td> <td>8</td> <td>39</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Balsam Fir | 45 | Pole/Sap/Log | 6 | | Jack Pine | 45 | Pole/Log | 8 | 39 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | High | Variable | Sapling | Black Cherry | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 45 | Pole/Sap/Log | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 45 | Pole/Log | 8 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 6130 - Fir, Aspen, Maple | Sapling Medium | 8.6 | 25 | Immature | N/A | Cut in '94 (20-91-01) merch stems. RM & TA stems following harvest, along with resid (small pole RM, TA, & BF). Tag alder and F2 inclusions, sedges, blue flag iris. Regen would have been less patchy if the cut was spec'd 2" & up. Residual balsam fir and aspen from the 1994 harvest that was sub merchantable at the time is now 45-50 years old, and in the small pole class. There is little to no aspen regeneration in areas where this was residual was heavy. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>45</td> <td>Sapling/Pole</td> <td>3</td> <td>25</td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Sapling/Pole</td> <td>3</td> <td>25</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 10 | Sapling | 3 | | Balsam Fir | 45 | Sapling/Pole | 3 | 25 | Quaking Aspen | 35 | Sapling/Pole | 3 | 25 | <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>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 45 | Sapling/Pole | 3 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 35 | Sapling/Pole | 3 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 4130 - Aspen | Sapling Medium | 10.8 | 2 | Immature | N/A | Regen dominated by t aspen. Trace amount of residual x-log red and white pine, and pole size cedar. High water table indicated by tag alder and cattails. Regen patchy in spots but passes overall. Post-harvest update: Was final harvested by Sept 2016 (#033-12), cutting stems 2"+ DBH except oak, hemlock, cedar, and RP-WP >26" diam at stump. All tops were left. OPIC - FMD: The stand has two narrow black ash/NWC swales cutting through it along the intermittent streams, but other than that, it is relatively dry. While typed Aspen, there is about equal parts TA, RM & RP, with somewhat lesser components of paper birch and JP. The aspen and RM saw is largely cull. There is thick BF in the stand's east half, between the two drains. The west half is more upland, with inclusions of RP in the NW. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 90 | Sapling | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 8 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 500 - Water | Nonstocked | 7.5 | | | No | Pickereel Lake. Drive-in backcountry campsite at the SE end. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Poor | 18.3 | 25 | 1-50 | N/A | Most of it cut in '94 (20-91-01) merch stems, although some RP & WP small sawtimber was left. Primarily small pole residual from the cut (WP, RM, paper birch, TA) over RM, TA and Balsam fir regen. There is a cohort of aspen and balsam fir in the 45-50 age range that was likely sub-merchantable and not cut during the 1994 harvest, and looks like it negative impacted aspen regeneration. Stand also has open wet-meadow inclusions, and the SW edge incorporates an uncut swale of black ash & aspen. Small sections are upland, but most of the stand has a high water table, with standing water common. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>Balsam Fir</td> <td>28</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 30 | Sapling/Pole | 4 | 25 | Quaking Aspen | 25 | Sapling/Pole | 4 | 25 | Balsam Fir | 28 | Sapling/Pole | 4 | | White Pine | 10 | Sapling/Pole | 4 | | <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>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Tag Alder | Low | 5 - 10 feet | Tall Shrub | Balsam Fir | High | 10 - 20 feet | Sapling | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 30 | Sapling/Pole | 4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 25 | Sapling/Pole | 4 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 28 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 500 - Water | Nonstocked | 1.7 | | | No | Small pond, numerous snags, yellow water lilly. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 3303 - Mixed Low Density Trees | Nonstocked | 6.3 | | | No | Cherry, amelanchier with scattered brushy JP. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|-------------------|------------|------------|----------|--------------|---|---------------|----|--------------|----|----|---|----|--------------------|---------|-------------|---|------------------|--------------------|-------------|-------------|--|------------------|--------------------|-------------|-------------|------------------|-------------|-------------|--------------|---------|-----------|-----|----------|---------|-----------|-----|-------------|------------|
| 52 | 6112 - Lowland Aspen | Poletimber Well | 26.1 | 45 | 51-80 | N/A | Aspen, red maple, and balsam fir on ground close to the water table, areas seasonally-flooded, small inclusions of L (tag alder). Drier near powerline, with white and jack pine mixed in. Lower ground to SE, more black ash & bam there. Balsam fir in the understory, also bands of almost exclusively BF coverage. Many low ground flooded pockets throughout the stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 60 | Pole/Sapling | 6 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 25 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 6113 - Lowland Maple | Sawtimber Medium | 44.9 | 82 | 1-50 | N/A | The west third of this stand was set up for harvest under 72-050-03-01 but was dropped from the contract due to access problems. The contract was amended, a variance approved, and limit factor added. See notes in closed tsale folder for complete background. The area within that intended harvest boundary is possibly operable, but it is bounded by a drainage to the N & E and a tag alder swale to the W & S. There is scattered overmature cull red maple, balsam fir & quaking aspen, with about as much pole-sized aspen, red maple, and spruce/fir mixed in, along with scattered and white pine of all sizes. The most common age for the red maple is 82, with a cohort in the 115-120 age range as well. Thick balsam fir regen filling in below. East of the drainage, there are some isolated islands of slightly drier ground surrounded by lowland. There is some lowland cedar and tag alder on transition into adjacent L0 stands. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>70</td> <td>Log/Pole</td> <td>12</td> <td>82</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Maple | 70 | Log/Pole | 12 | 82 | Quaking Aspen | 10 | Log/Pole | 12 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | High | Variable | Sapling | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 70 | Log/Pole | 12 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | 4130 - Aspen | Poletimber Medium | 22.1 | 47 | 51-80 | N/A | TA pole stand with RM & WP and balsam fir poles and saps. Scattered old RP saw. Seasonally wet areas. Large sap/small pole WP is concentrated toward the stand's S third, but much of that WP has died out. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>84</td> <td>Pole/Log</td> <td>8</td> <td>47</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Quaking Aspen | 84 | Pole/Log | 8 | 47 | Red Maple | 10 | Pole | 7 | | <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>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Cherry | Low | 5 - 10 feet | Sapling | Northern Pin Oak | Trace | Variable | Sapling | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 84 | Pole/Log | 8 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Trace | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 42220 - Natural Jack Pine | Poletimber Medium | 57.4 | 55 | 51-80 | N/A | Big Creek KW management unit, HCVA. Pole size JP, some areas more open, with small inclusions of trembling aspen. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>85</td> <td>Pole</td> <td>7</td> <td>55</td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Jack Pine | 85 | Pole | 7 | 55 | Quaking Aspen | 15 | Pole | 6 | | <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>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 85 | Pole | 7 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | 42120 - Planted Jack Pine | Sapling Well | 352.6 | 23 | Immature | N/A | Big Creek KW management unit, HCVA. JP planted in the opposing wave pattern. Scattered cherry in diamonds. JP is 3-5" diameter. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 96 | Sapling/Pole | 4 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 42220 - Natural Jack Pine | Poletimber Well | 23.6 | 66 | 81-110 | N/A | Big Creek KW management unit, HCVA. Primarily JP poles, less than 10 BA small JP saw. Suppressed stems weeding out. Pockets of nice oak saps, but not widespread coverage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 95 | Pole/Log | 8 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Trace | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | Trace | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|-------------------|------------|------------|----------|-----------------|--|----|----------|---|----|----------|----|----------|----|--|------------|----|----------|---|--|---|----|--------------------|---------|-------------|---|-----------|--------------------|-------------|-------------|---------------|------------------|----------|----------|---------|------------|-----|-------------|---------|--------------|--------|-------------|---------|--|--|--|
| 58 | 42290 - Natural Mixed Pine | Poletimber Well | 13.9 | 58 | 81-110 | N/A | Mixed stand. RP, JP with TA, BF & cherry mixed in. Variable: mostly small poles, but ranging up to saw (minority of stems). Younger poles S of Henning Rd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>45</td> <td>Pole/Log</td> <td>8</td> <td>58</td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 45 | Pole/Log | 8 | 58 | Red Pine | 25 | Log/Pole | 12 | | Balsam Fir | 10 | Pole/Log | 8 | | Quaking Aspen | 15 | Pole/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Low | < 5 feet | Sapling | Balsam Fir | Low | 5 - 10 feet | Sapling | Black Cherry | Medium | 5 - 10 feet | Sapling | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 45 | Pole/Log | 8 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 25 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | 500 - Water | Nonstocked | 1.7 | | | No | Small ponds on powerline corridor. Salix at edges. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 6112 - Lowland Aspen | Poletimber Medium | 18.5 | 60 | 1-50 | N/A | A narrow band of TA, bam, BF & RP on steep sideslope extending down to the floodplain, left when the adjacent uplands were cut. Tag alder at the lower end of slope. Beaver activity along the creek. Within Natural Rivers zone, HCVA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>70</td> <td>Pole/Log</td> <td>8</td> <td>60</td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Quaking Aspen | 70 | Pole/Log | 8 | 60 | Red Pine | 15 | Log/Pole | 12 | | Balsam Fir | 10 | Pole | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Tag Alder | Low | 5 - 10 feet | Tall Shrub | Quaking Aspen | Medium | Variable | Sapling | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 70 | Pole/Log | 8 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 15 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | 310 - Herbaceous Openland | Nonstocked | 43.5 | 0 | | Managed Opening | Mature JP stand was final harvested in 2014 (#039-12, Walsh Camp Jack), cutting stems 2"+ DBH except RP-WP and island retention. Retention included the portion of the stand between the Walsh Road Equestrian Trail Camp and the county road, an island encompassing the trail leading to the equestrian water hole on the Middle Branch of Big Creek, and the east edge of the stand lying within the 150' Natural Rivers restricted cutting zone. A variance was approved in August 2016 to change the management objective from planted JP to planted RP in order to maintain a longer-lived species that would help with visual management relative to the campground and horse trail. The variance allowed for the use of site prep as needed, including roller chopping and herbicide application. The site was roller-chopped in 2016 (C72-741). A pre-herbicide site survey conducted by MNFI in 2017 confirmed the presence of rare dry prairie plant species. The planned site prep work was put on hold and the overall management objective re-evaluated in light of those survey results. A variance to manage for dry sand prairie and pine barrens ecosystem restoration through prescribed burning was approved March 19, 2018. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 6220 - Alder/willow | Nonstocked | 26.7 | | | No | L/N on floodplain along Middle Branch of Big Creek. Beaver activity. Tag alder, salix, spiraea, over marsh grass. Horse watering access point with washed stone approach and fence in creek. Natural Rivers zone, HCVA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 622 - Lowland Shrub | Nonstocked | 13.5 | | | No | Dense, tall tag alder with scattered large sap/small pole PB, BF & aspen. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|------------|----------------|-------------|--------------|---|-----|------------|----|--------------|----|----|---------------|----|--------------|----|-----|---|----|--------------------|---------|-------------|---|------------------|--------------------|-------------|-------------|--|------------|--------------------|--------------|-------------|-----------|------------|-------------|------------|---------|------------------|--------|-------------|---------|--|--|
| 64 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 110.1 | 105 | 51-80 | N/A | Mostly cedar poles with tamarack, spruce & balsam fir on sphagnum mat. Thick balsam and tag alder in sub canopy. Cedar tops thinning, some dieback occurring. Lots of low, wet ground with drainages and surface water. Stand has stunted growth in the wetter areas. Dominant age of canopy trees were 100-105 years old, but there was also a cohort of black spruce at age 65. Stand is split by powerline/pipeline corridor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td>100</td> </tr> <tr> <td>Northern White Cedar</td> <td>40</td> <td>Pole/Sap/Log</td> <td>7</td> <td>105</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Balsam Fir | 15 | Pole | 8 | | Black Spruce | 25 | Log/Pole | 10 | 100 | Northern White Cedar | 40 | Pole/Sap/Log | 7 | 105 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Full</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | Full | 10 - 20 feet | Sapling | Tag Alder | High | 5 - 10 feet | Tall Shrub | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 15 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 25 | Log/Pole | 10 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 40 | Pole/Sap/Log | 7 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Full | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | High | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 6220 - Alder/willow | Nonstocked | 2.9 | | | No | Tag alder with low-density Q (BF & NWC) between marsh and swamp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | 42120 - Planted Jack Pine | Poletimber Well | 38.7 | 32 | 1-50 | N/A | Big Creek KW management unit, HCVA. Planted JP (not opposing wave pattern) with small pockets and scattered stems of residual JP, RP, NPO & aspen. Previous notes: "Cut in 20 years (2021 YOE) with the rest of the stands in this block". | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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>82</td> <td>Pole/Sapling</td> <td>5</td> <td>32</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 82 | Pole/Sapling | 5 | 32 | Quaking Aspen | 10 | Sapling/Pole | 4 | | <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> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 82 | Pole/Sapling | 5 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Well | 10.9 | 80 | 81-110 | N/A | Big Creek KW management unit, HCVA. Mixture of red pine, overmature jack pine, quaking aspen and pin oak. Understory is a mixture of WP, RP & nice large sap oak. Previous notes: "Hold and cut the whole block in 20 years (2021 YOE). Then the J3 will be 34 years old and big enough to cut. This block if cut then will be thirty years younger than blocks 3 and 4 and 25 years younger than blocks 1 and 2. Just about the time blocks 1 and 2 are getting to big for nesting." | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>35</td> <td>Log/Pole</td> <td>12</td> <td>80</td> </tr> <tr> <td>Jack Pine</td> <td>35</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Pine | 35 | Log/Pole | 12 | 80 | Jack Pine | 35 | Pole/Log | 9 | | Northern Pin Oak | 15 | Log/Pole | 12 | | Quaking Aspen | 10 | Pole/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | White Pine | Low | Variable | Sapling | Northern Pin Oak | Medium | 5 - 10 feet | Sapling | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 35 | Log/Pole | 12 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 35 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 15 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | 3302 - Low Density Conifer Trees | Nonstocked | 4.8 | 35 | Unspecified | No | U/G (mostly cherry) filling in with brushy JP, RP & BF that appear to be residual from prior harvest. Part of '84 harvest area (023-84). Consider harvesting when stand 7 is harvested to encourage aspen expansion. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 622 - Lowland Shrub | Nonstocked | 17.1 | | | No | L (tag, spiraea, salix) over marsh grass. N-type along 4' wide stream that wanders through the stand. P/Q mixed in along north finger. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | 42120 - Planted Jack Pine | Poletimber Well | 20.1 | 32 | 1-50 | N/A | Big Creek KW management unit, HCVA. Previous notes indicate planted in 1987 and plan to cut in YOE 2021. JP (not in opposing wave pattern) planted around residual JP & RP (mostly to S & W.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 85 | Pole/Sapling | 5 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 7 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | 6239 - Mixed Emergent Wetland | Nonstocked | 9.0 | | | No | Wet meadow/marshy segment of powerline corridor. Saturated soils, sedges, blue flag iris, lowland brush. Standing water in ruts; not drivable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 623 - Emergent Wetland | Nonstocked | 4.3 | | | No | OPIC - FMD: Wet meadow/marshy segment of pipeline corridor. Saturated soils, sedges, blue flag iris, lowland brush. Standing water in ruts; not drivable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | 623 - Emergent Wetland | Nonstocked | 3.0 | | | No | Marsh with some open water, will and tag alder around the edges. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|-------------------|---------|------------|----------|--------------|--|----|--------------|---|----|---------------|----|--------------|---|--|---|---|--------------------|---------|-------------|--|------------------|--------------------|-------------|-------------|------------------|---------------|-------------|----------|------------------|-----|-------------|---------|
| 79 | 6229 - Mixed lowland shrub | Nonstocked | 1.7 | | | No | Finger of the Pickerel Lake Flooding. Some open water to the west, but mostly L (salix) with marsh grass, snags. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 4130 - Aspen | Sapling Well | 6.6 | 26 | Immature | N/A | Cut in 1992 (006-91) but not planted to red pine as the rest of the harvest area was. TA saps, with WP concentrated along the wetland edge. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 80 | Sapling/Pole | 3 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | 622 - Lowland Shrub | Nonstocked | 2.4 | | | No | Floodplain along Middle Branch of Big Creek. Tag alder over marsh grass, sedges, scattered aspen, BF. Natural Rivers zone, HCVA. Also includes the slope leading directly down to the creek containing mostly quaking aspen, red maple and balsam fir poles and saps. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | 6239 - Mixed Emergent Wetland | Nonstocked | 2.4 | | | No | Marsh grass with spiraea, leatherleaf, iris, rimmed with sap/pole TA. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 6229 - Mixed lowland shrub | Nonstocked | 2.7 | | | No | Small swale with salix, alnus, spiraea, marsh grass, iris and a patch of open water. Rimmed by fading SCRP & WP. FIA or Forest Health monitoring plot on E side. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | 622 - Lowland Shrub | Nonstocked | 4.5 | | Immature | No | Mostly salix, lesser amounts of tag alder and spiraea, over marsh grass. TA along pipeline. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | 42220 - Natural Jack Pine | Poletimber Well | 21.7 | 58 | 81-110 | N/A | This stand was designated as retention for adjacent sale to the east, contract #72-039-12-01. The long N/S strip to the east is on the steep slope down to stand 62, and lies within the 150' Natural Rivers boundary for the Middle Branch of Big Creek. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>90</td> <td>Pole</td> <td>9</td> <td>58</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 90 | Pole | 9 | 58 | Quaking Aspen | 10 | Pole/Sap/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 90 | Pole | 9 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 116 | 6122 - Black Spruce | Poletimber Well | 6.5 | 75 | 51-80 | N/A | Treed bog. Spindly lg sap/small pole BS over thick sphagnum, leatherleaf, pitcher plant. Very slow growing. scattered wp, b fir | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 90 | Pole/Sapling | 7 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 118 | 42220 - Natural Jack Pine | Poletimber Medium | 6.4 | 64 | 51-80 | N/A | JP poles and small saw with TA mixed in -- is not much more than an inclusion within stand 15's aspen type and could be incorporated into the same harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 85 | Pole/Log | 8 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 122 | 4132 - Aspen, Jack Pine | Poletimber Medium | 17.5 | 56 | 51-80 | N/A | Highly variable in species and stocking: 3 age classes of TA (mostly poles with a minority of cull saw, and saps along the north edge), 2 age classes of JP (scattered and in small pockets), scattered oak seeding in nice regen, BF & BS near the Q & L types, and generous helpings of U/G. When this stand is harvested, retention should be placed strategically to protect lower ground areas. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 60 | Pole/Log/Sap | 9 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 20 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 8 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

132 42220 - Natural Jack Pine Poletimber Medium 27.3 71 51-80 N/A

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|--------------|---------|
| Jack Pine | 65 | Pole/Log | 9 | 71 | Northern Pin Oak | Medium | 10 - 20 feet | Sapling |
| Red Pine | 15 | Log/Pole | 12 | | Black Cherry | Low | 5 - 10 feet | Sapling |
| Quaking Aspen | 10 | Pole/Log | 8 | | | | | |

Big Creek KW management unit, HCVA. Previous notes indicate to cut the stand in 2021, and that a wildfire burned part of the stand. Variable age & stocking in JP poles, pockets of RP, U/G inclusions, small pockets of J3 planted in 1987. Very similar to stand 29 with slightly less mortality.

140 4130 - Aspen Sapling Medium 26.8 3 Immature N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|------------------|-----|-----|
| Quaking Aspen | 70 | Sapling | 1 | 3 |
| Northern Pin Oak | 15 | Sapling/Pole/Log | 1 | |
| Red Maple | 10 | Sapling | 1 | |

Bunched top piles left. Lots of low ground areas. Aspen is regenerating well. Just a few red maple scattered in the stand. X Log red and white pine residual, less than 10sqft.

Was final harvested by Dec 2015 (#033-12), cutting stems 2"+ DBH except oak, hemlock, cedar, and RP-WP >26" diam at stump. Residual in this section of the previous stand is mostly oak, with approximately 10sqft per acre average present. Tops were bunched for chipping but couldn't be skidded due to wet ground in Dec, then had to be left because the regen had jumped up before the contractor had chipping capacity the following summer. Snowmobile trail bisects stand. Previous stand comments: Ownership cards show that the area has a long, varied treatment history (portions treated by salvage/removals in the 50's & 60's, KG blading in the mid '60's, manual cutting by Wildlife FTP in '72). Aspen with RM, PB, WP & RP on mostly dry ground with L/Q/P mixing in along the stand's wide transition zone with adjacent lowland types. Dense large sap/small pole balsam fir in the understory across much of the stand, with inclusions of majority fir coverage. Far southwest corner is on a dry ridge, with bigtooth aspen, oak and RP. Two intermittent drains cross through the type west of Pickerel Lake Rd. The stand is on ground close to the water table, with parts experiencing seasonal flooding during snowmelt. The increasing balsam fir component is a concern in maintaining the aspen management objective. Harvest all stems 2" and up. Leave the super-canopy WP & RP trees that occur in small clumps along Pickerel Lake Road. If prescription approved, harvest stand 50 at the same time. Maximize horizontal cover, leave tops, fell marked boundary line trees into adjacent stand 16. Retention priority is along drains. 11/10/09 Compt Review comments: Wildlife priority to remove balsam fir . . . protect snowmobile trail if winter cut. See locked comments regarding where not to put landing.

146 4199 - Other Mixed Upland Deciduous Sawtimber Well 12.0 98 81-110 N/A

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------|---------|------------|-----|-----|------------------------|---------|--------------|---------|
| Black/Red (Hybrid) Oak | 55 | Log | 14 | 98 | White Pine | Medium | 10 - 20 feet | Sapling |
| Red Maple | 25 | Pole/Log | 8 | | Red Maple | Low | 10 - 20 feet | Sapling |
| Quaking Aspen | 10 | Pole/Log | 8 | | Black/Red (Hybrid) Oak | Low | Variable | Sapling |

Mixed upland oak/RM/aspen/pine stand wrapping around Pickerel Lake. WP filling in below. G-inclusion along S side. Drive-in backcountry camp sites, one each on N & S sides of Lake. Steep sideslopes down to water's edge. This type's boundary has a wide transition zone with the adjacent types; the stand boundary was drawn to define a buffer around the lake. Used SI from the rest of the oak type in comt 290. 2-26-10 update: variance approved to remove the 2001 YOE stand condition code 8 from this lake-bordering stand, removing it from the SCA layer. Drainage passes through from adjacent stand 240 and into pickerel lake. buffer this if harvested.



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|-------------------|------------|------------|----------|-----------------|--|----|----------|---|----|------------|----|--------------|---|--|--------------|----|--------------|---|--|-------------|----|--------------|---|--|---|--|--------------------|---------|-------------|------|------------|------|----------|---------|-------------|-----|--------------|---------|-----------|--------|-------------|------------|--|--|--|--|
| 240 | 6130 - Fir, Aspen, Maple | Poletimber Medium | 25.6 | 55 | 51-80 | N/A | highly variable lowland stand that was excluded from adjacent harvest to buffer drainages that flow to Pickerel Lake. pb, bf, qa, bam, b sp, nwc, range of poles saps and logs. creeks, lots of woody debrisPost-harvest update: this portion of the original stands 40+ & 46 was excluded from harvest mainly to buffer intermittent streams and wetlands or because the ground was too wet. Some upland portions were excluded because they were narrow or isolated. The canopy data was roughed-in to allow stand updates; re-inventory will reflect the range of associates (RM, bam, balsam fir, NWC, black spruce etc.). OPIC - FMD: Ownership cards show that the area has a long, varied treatment history (portions treated by salvage/removals in the 50's & 60's, KG blading in the mid '60's, manual cutting by Wildlife FTP in '72). Aspen with RM, PB, WP & RP on mostly dry ground with L/Q/P mixing in along the stand's wide transition zone with adjacent lowland types. Dense large sap/small pole balsam fir in the understory across much of the stand, with inclusions of majority fir coverage. Far southwest corner is on a dry ridge, with bigtooth aspen, oak and RP. Two intermittent drains cross through the type west of Pickerel Lake Rd. The stand is on ground close to the water table, with parts experiencing seasonal flooding during snowmelt. The increasing balsam fir component is a concern in maintaining the aspen management objective. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Quaking Aspen</td> <td>45</td> <td>Pole/Log</td> <td>8</td> <td>55</td> </tr> <tr> <td>Balsam Fir</td> <td>23</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>12</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Quaking Aspen | 45 | Pole/Log | 8 | 55 | Balsam Fir | 23 | Pole/Sapling | 7 | | Black Spruce | 15 | Pole/Sapling | 7 | | Paper Birch | 12 | Pole/Sapling | 6 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | High | Variable | Sapling | Paper Birch | Low | 10 - 20 feet | Sapling | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 45 | Pole/Log | 8 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 23 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 15 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 12 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 401 | 3205 - Mixed Upland Shrub | Nonstocked | 1.4 | | | No | Grassy opening, old pine stumps, encroaching shrubby cherry, JP, & TA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 402 | 3102 - Grass | Nonstocked | 2.2 | | | No | Grassy opening filling in with U, brushy JP, TA, along Pickerel Lake Rd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 403 | 3102 - Grass | Nonstocked | 4.2 | | | Managed Opening | Maintained WL opening, a handful of oak. Some clumps of big blue stem. Areas with thin grass coverage are being colonized by spotted knapweed. Buckwheat & clover planted in 2016 (C72-658). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 404 | 3102 - Grass | Nonstocked | 1.8 | | | Managed Opening | Maintained WL opening. Spotted knapweed colonizing thin areas. Old notes indicate it was planted to rye grass. Buckwheat & clover planted in 2016 (C72-658). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 405 | 3102 - Grass | Nonstocked | 3.0 | | | No | Grassy opening with cherry, shrubby JP, big blue stem, sweetfern. See locked comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 406 | 3102 - Grass | Nonstocked | 3.9 | | | Managed Opening | Maintained WL opening, handful of oak. Old notes indicate it was planted to rye grass. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 407 | 3102 - Grass | Nonstocked | 1.8 | | Immature | Managed Opening | Maintained WL opening. Old notes indicate it was planted to rye grass. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 408 | 3102 - Grass | Nonstocked | 0.8 | | | No | Wellsite: Linn Operating, LLC State Greenwood #A2-7 Emergency phone: 231-932-7302 6304 Grass and knapweed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments |
|-------|--------------------|--------------|-------|-----------|----------|-----------------|---|
| 409 | 3102 - Grass | Nonstocked | 1.3 | | | Managed Opening | Former wellpad. Within KW unit. No plumbing. Mostly grass, some knapweed. Old treatment to Convert to maintained WL opening.(C72-658) |
| 410 | 3102 - Grass | Nonstocked | 1.1 | | | No | Wellsite: Linn Operating, LLC State Greenwood #A2-7 Emergency phone: 231-932-7302 Knapweed cover |
| 411 | 3102 - Grass | Nonstocked | 14.5 | | | No | Cleared utility corridor. Lakehead gas pipeline. |
| 412 | 3102 - Grass | Nonstocked | 16.4 | | | No | Cleared utility corridors. Lakehead gas pipeline and overhead powerline. |
| 413 | 3102 - Grass | Nonstocked | 1.6 | | | No | Cleared utility corridor. Overhead powerline segment near Pickerel Lake Flooding. |