



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54053

Entry Year 2024

Acreage: 3,053

County Montmorency

Management Area: Thunder Bay Outwash

Stand Examiner: Daniel Natzke

Legal Description:

T31N, R3E, SEC. 19, 20, 29, 30, 31, 32.

Identified Planning Goals:

Timber management goals for this compartment include

- *maintaining aspen acreage and balancing aspen age classes,
- *continuing a regime of thinnings and final harvests of red pine with the goal of maintaining the type and balancing its age classes,
- *maintaining oak as a component in mixed stands, while understanding that oak dominated stands are decreasing,
- *maintaining jack pine cover through even-aged management, and
- *harvesting mature lowland aspen where feasible to maintain the type.

Soil and topography:

In general, the compartment is gently rolling with greater topographic relief in the west and a network of mucky wetlands that generally drain northward. Some of these wetlands make up the headwaters of Brush Creek. Small wetland depressions occur in pitted outwash that seem to mark the transition between upland and wetland or indicate the communication of groundwater between two wetland basins.

The Millerburg-Klacking-Horsehead association underlies most of the western half of the compartment. These level to very hilly soils are well drained sands and loams situated in moraines. Minor soils in the association consist of a wide range of drainage classes from excessively drained outwash flats to very poorly drained depressions between uplands. Of particular interest in this association are the loamy sands of the Millersburg loamy sands and Banfield fine loamy sands which support very productive aspen with northern hardwood indicator species. In the eastern half of the compartment the Rubicon-Grayling-Tawas association dominates. This association exists on a wide range of landscape positions from excessively drained slopes and flats to very poorly drained basins. Pitted outwash is a common feature of the poorly drained lowlands in which a mere few feet make the difference between upland and lowland characteristics. These soils often feature either a seasonally perched water table or water close to the soil surface. In the compartment's northeast, excessively drained sands are most common in the uplands supporting jack pine, red pine, and generally poorer aspen. In the compartment's southeast is the Algonquin-Negwegon-Springport association, the least common soil association in the compartment. The soils of this association are frequently lacustrine silts and clays from ancient lake beds found in depressions.

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

State ownership surrounds most of the compartment. However there are a few privately owned parcels and hunt clubs that are adjacent.

Unique Natural Features:

While the compartment does not contain any unique natural features, there are a few notable stands of lowland pine as well as areas of pitted outwash topography.

Archeological, Historical, and Cultural Features:

The compartment may contain archaeological features.

Special Management Designations or Considerations:

The compartment does not have special management designations or considerations.

Watershed and Fisheries Considerations:

Drainages flow south into Smith Creek and north into Brush Creek. Smith Creek enters the Thunder Bay River just east of Atlanta. Brush Creek empties into the Thunder Bay River at Hillman.

Wildlife Habitat Considerations:

Compartment 53 contains a mixture of aspen, red and jack pine, mixed swamp conifer, balsam poplar and forest openings

resulting from past management practices of timber harvest, tree planting, and deer range improvement opening creation and management. Featured species present in this compartment include ruffed grouse, beaver, American woodcock, wild turkey, and whitetailed deer. Openings will be maintained through mowing, planting to food and cover crops, and potentially burned to enhance their value to a variety of wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is four miles to the east. There appears to be some good sand & gravel potential in the compartment on the uplands, but any surface mining would need to avoid oil & gas infrastructure. This area has been developed for and is producing gas from the Antrim Shale. All State-owned oil & gas rights are currently leased and held by production. Spacing requirements could limit potential of additional wells beneath the compartment. Additionally, due to the persistent low price of natural gas, there is unlikely to be any additional Antrim development in the area in the near future, and there is no known potential for hydrocarbon production from other proven formations. There is no known metallic mineral potential in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is generally very good throughout with numerous forest roads creating a network through the compartment. Areas that are harder to reach are typically lowlands.

Survey Needs:

A records search shows the compartment is well monumented. There is likely very little need for survey work.

Recreational Facilities and Opportunities:

Trails make up the majority of the recreational facilities. These include the Atlanta ORV Route and Snowmobile Routes LP4 and LP 494. Common recreational activities would include hiking, trail riding, hunting, wildlife viewing, and foraging.

Fire Protection:

The Atlanta DNR task force and Tri-Township Fire Department are most likely to respond to fire within the compartment.

Additional Compartment Information:

Currently there is no additional compartment information.

The following reports from the Inventory are attached:

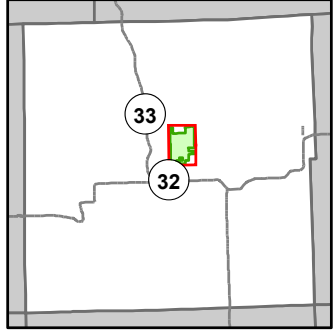
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

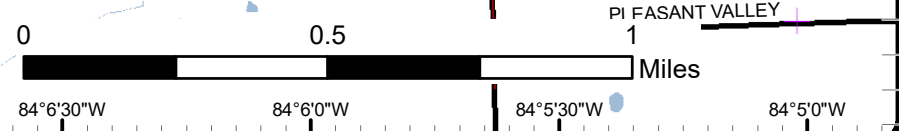
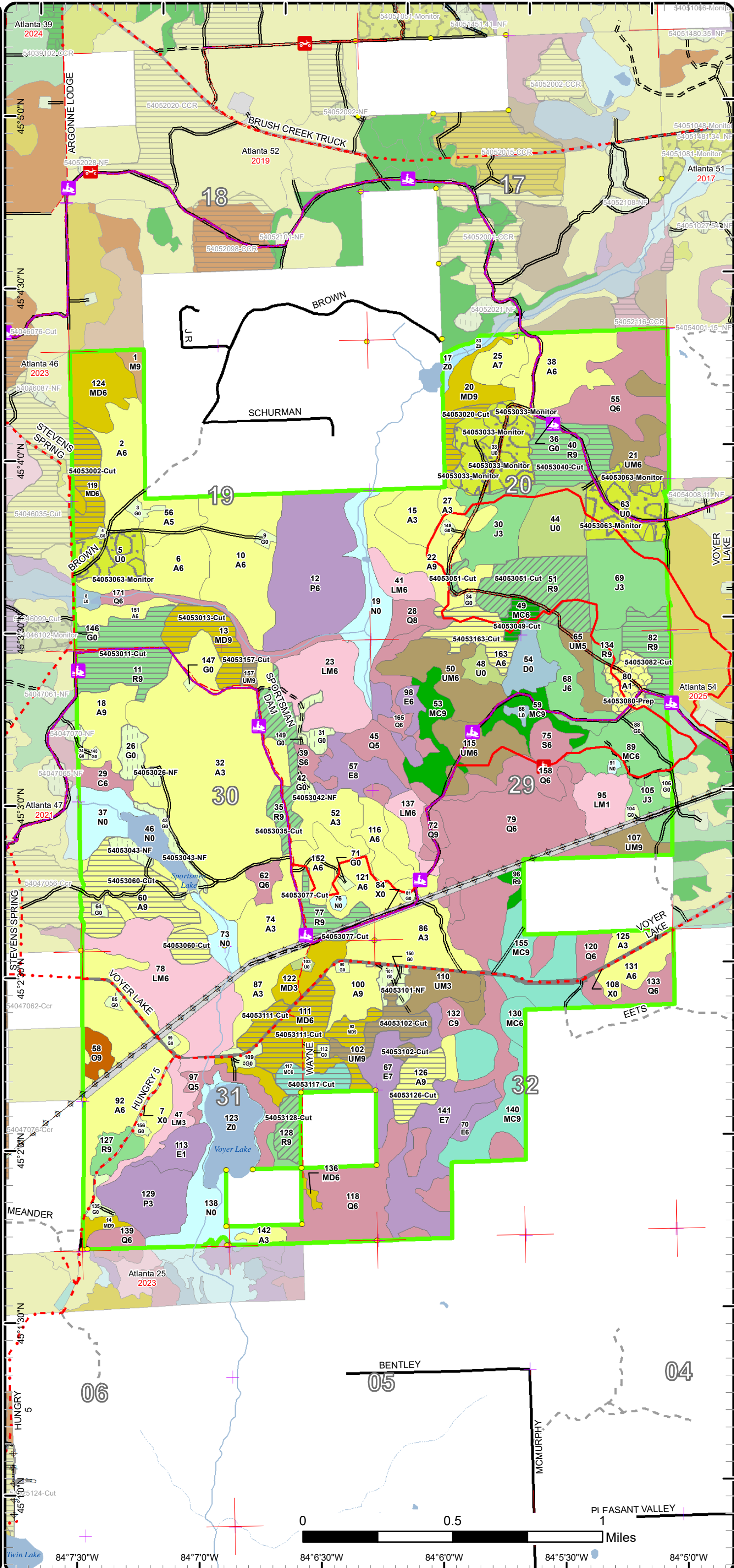
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 53
 T31N, R03E, Sec. 19, 20, 29-32
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2024
 Acres: 3053.4 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 11/16/2022
 Map Phase: Post-Review

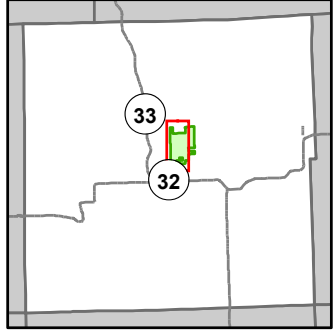


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
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- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
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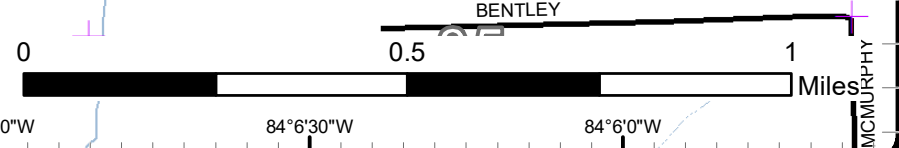
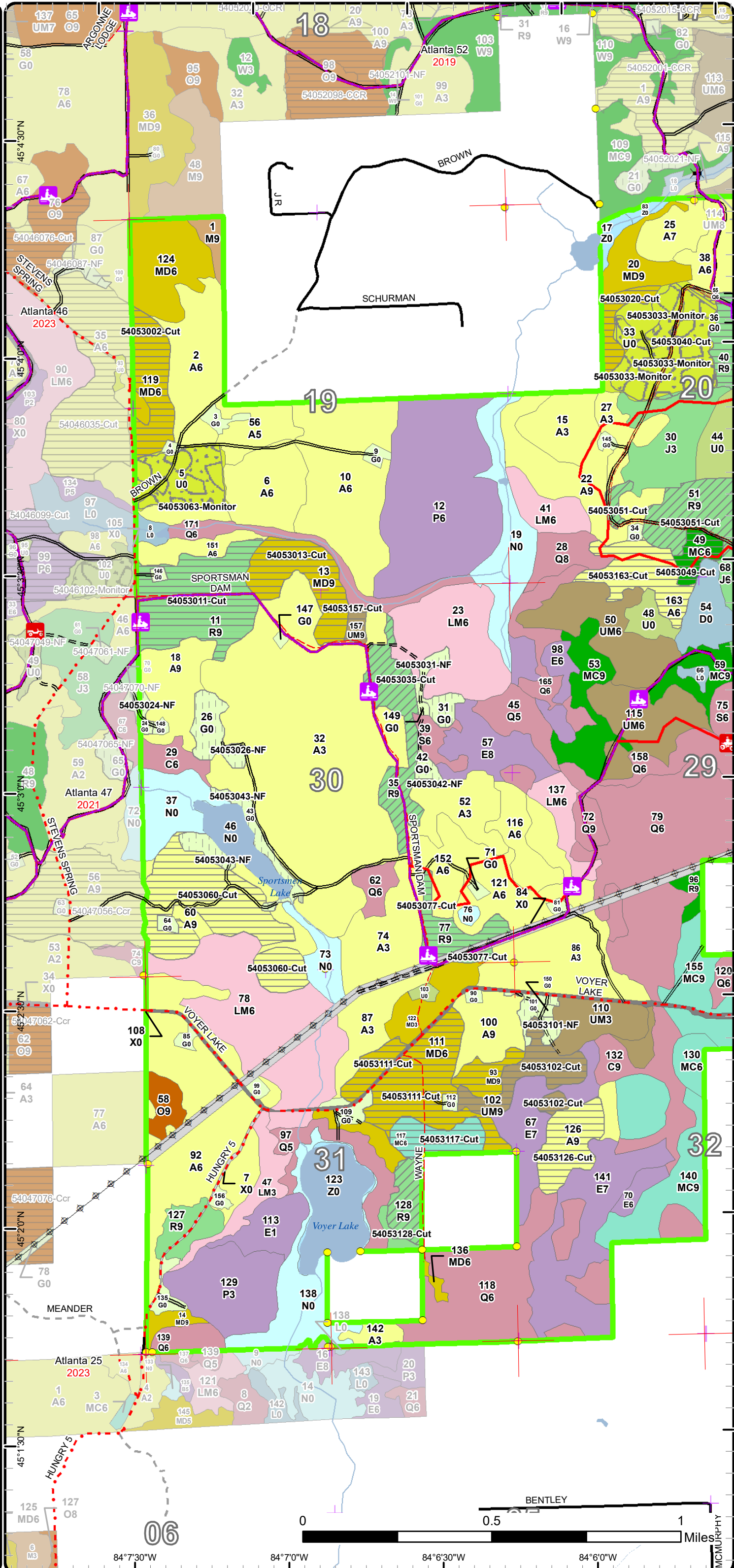


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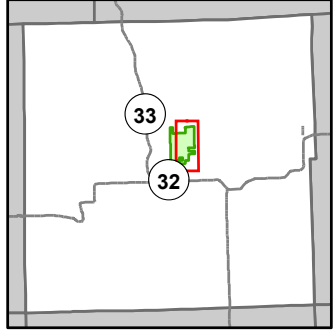


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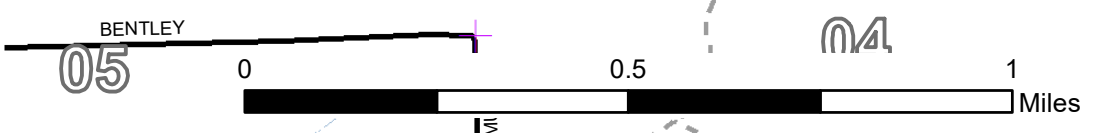
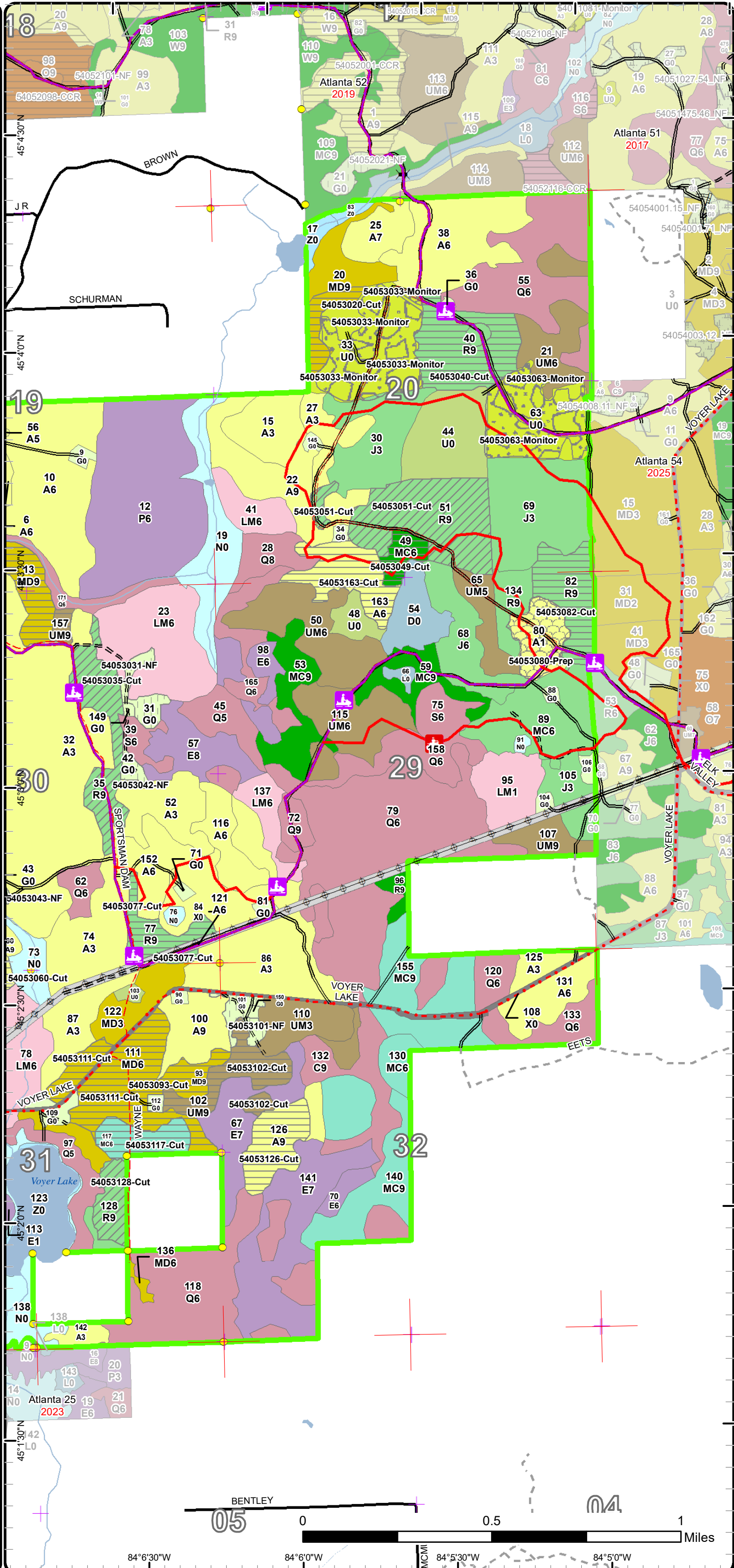


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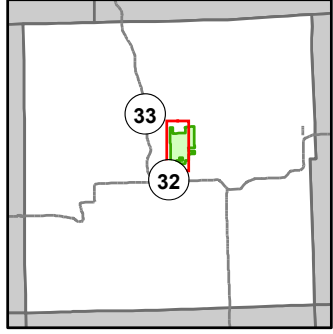
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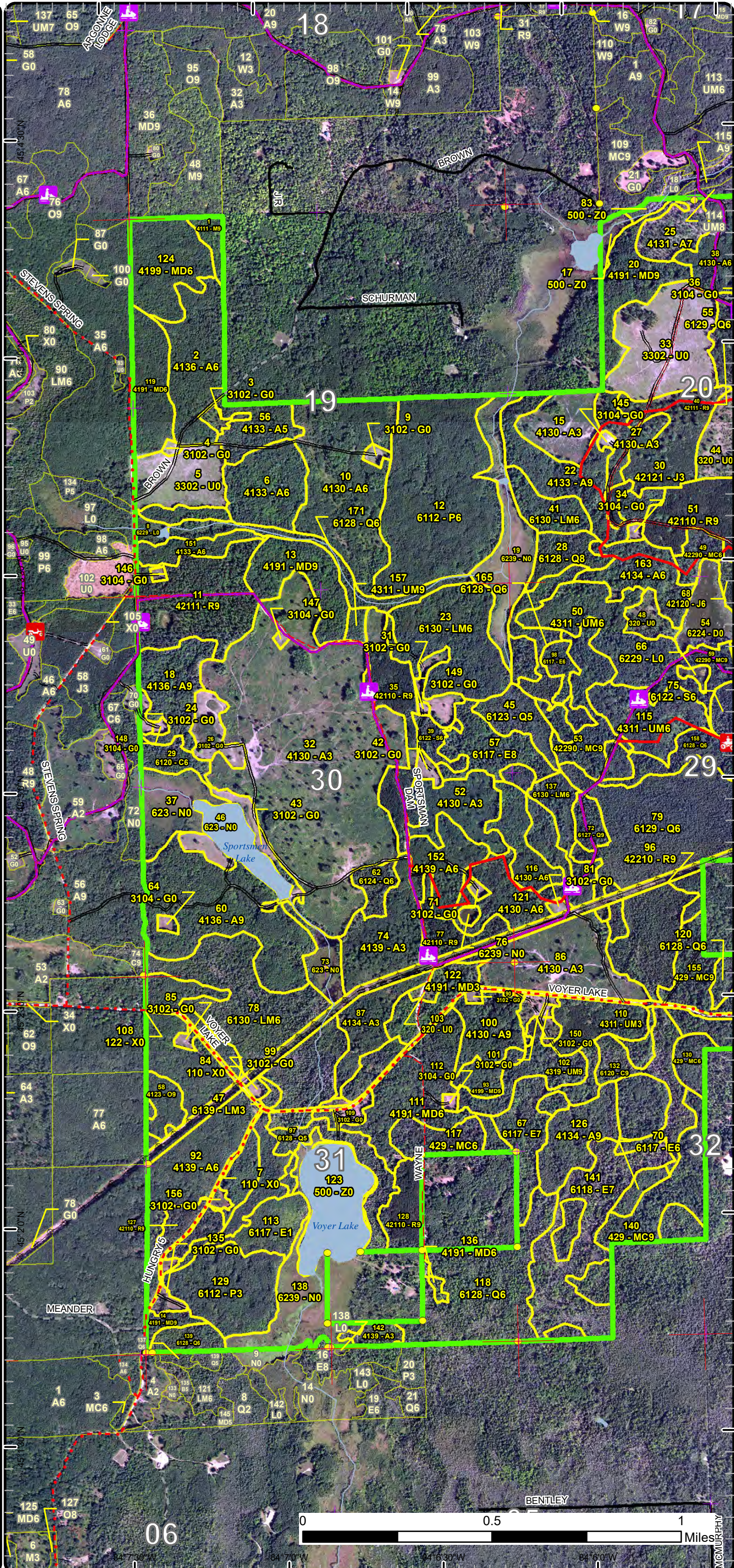
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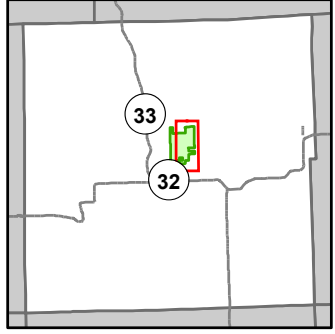
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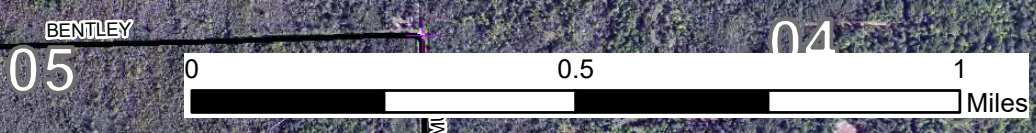
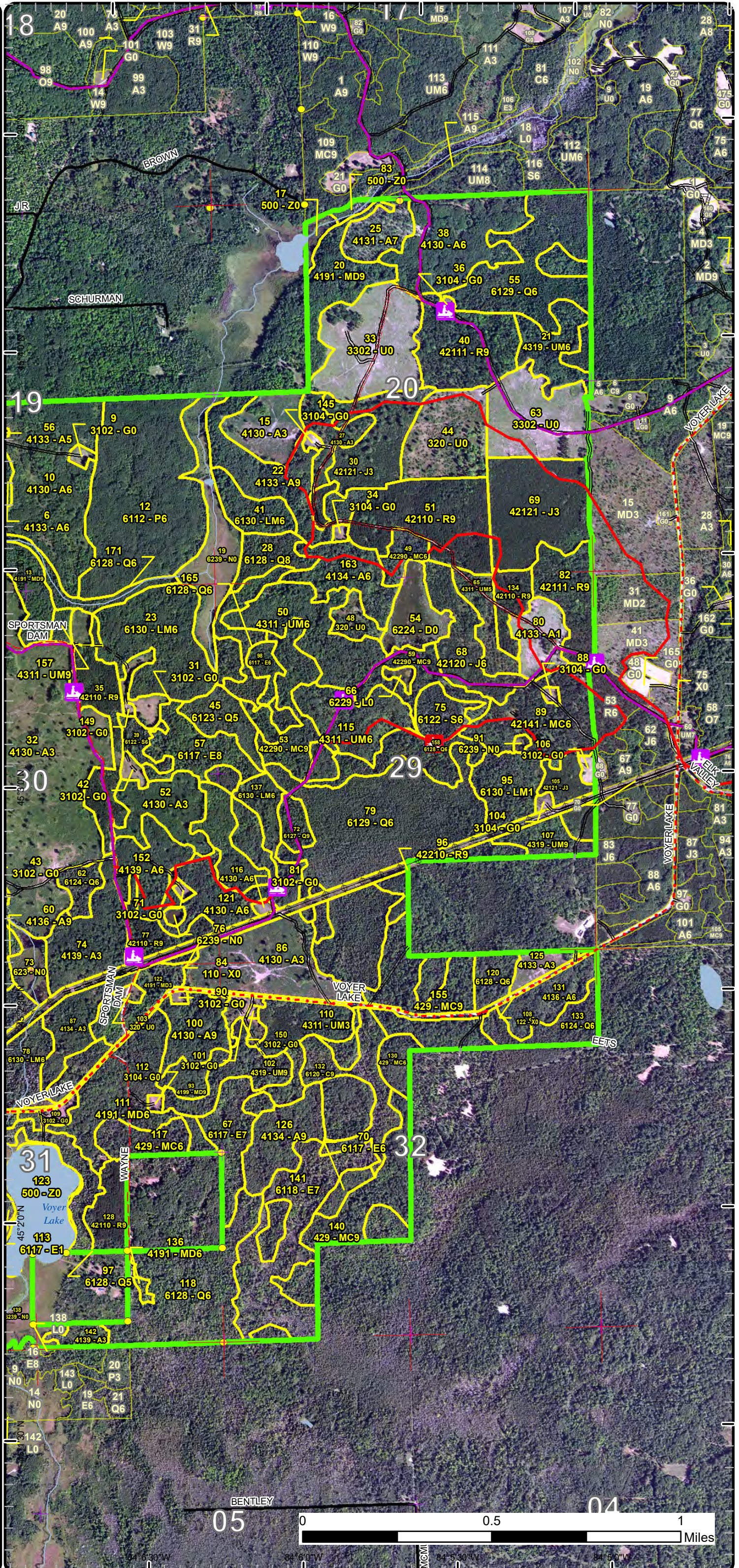
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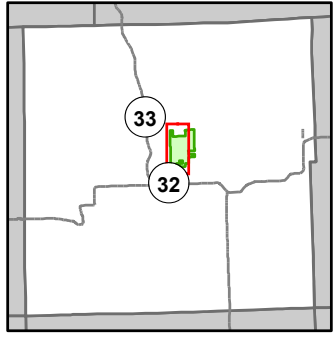
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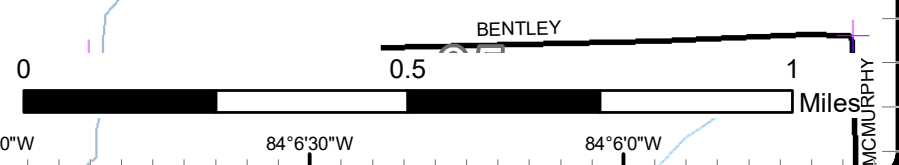
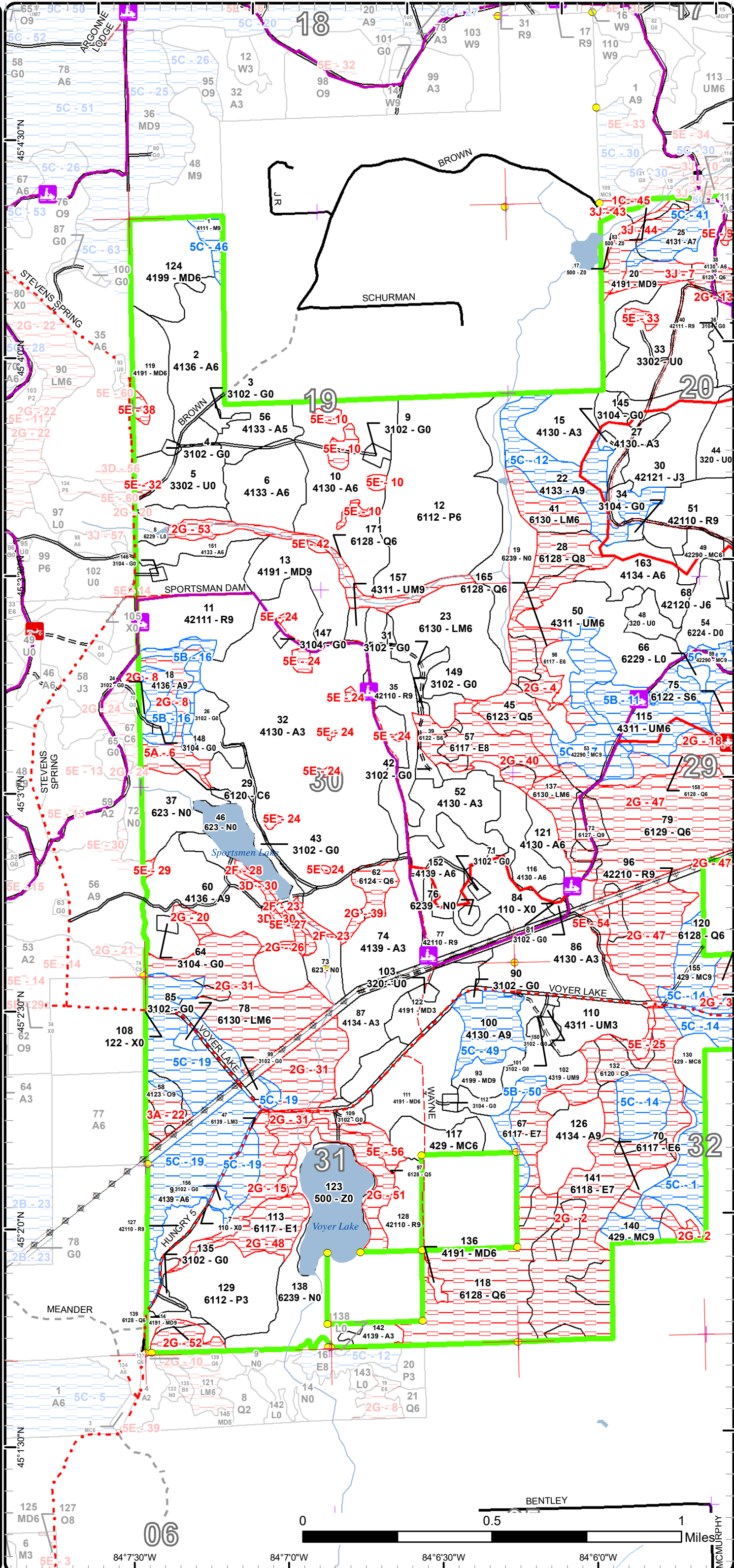
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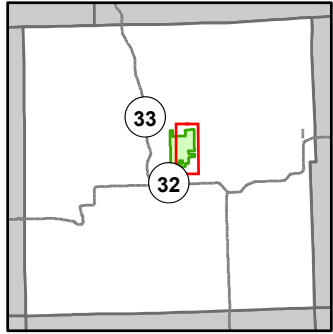


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

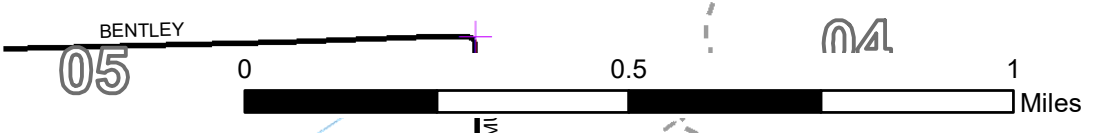
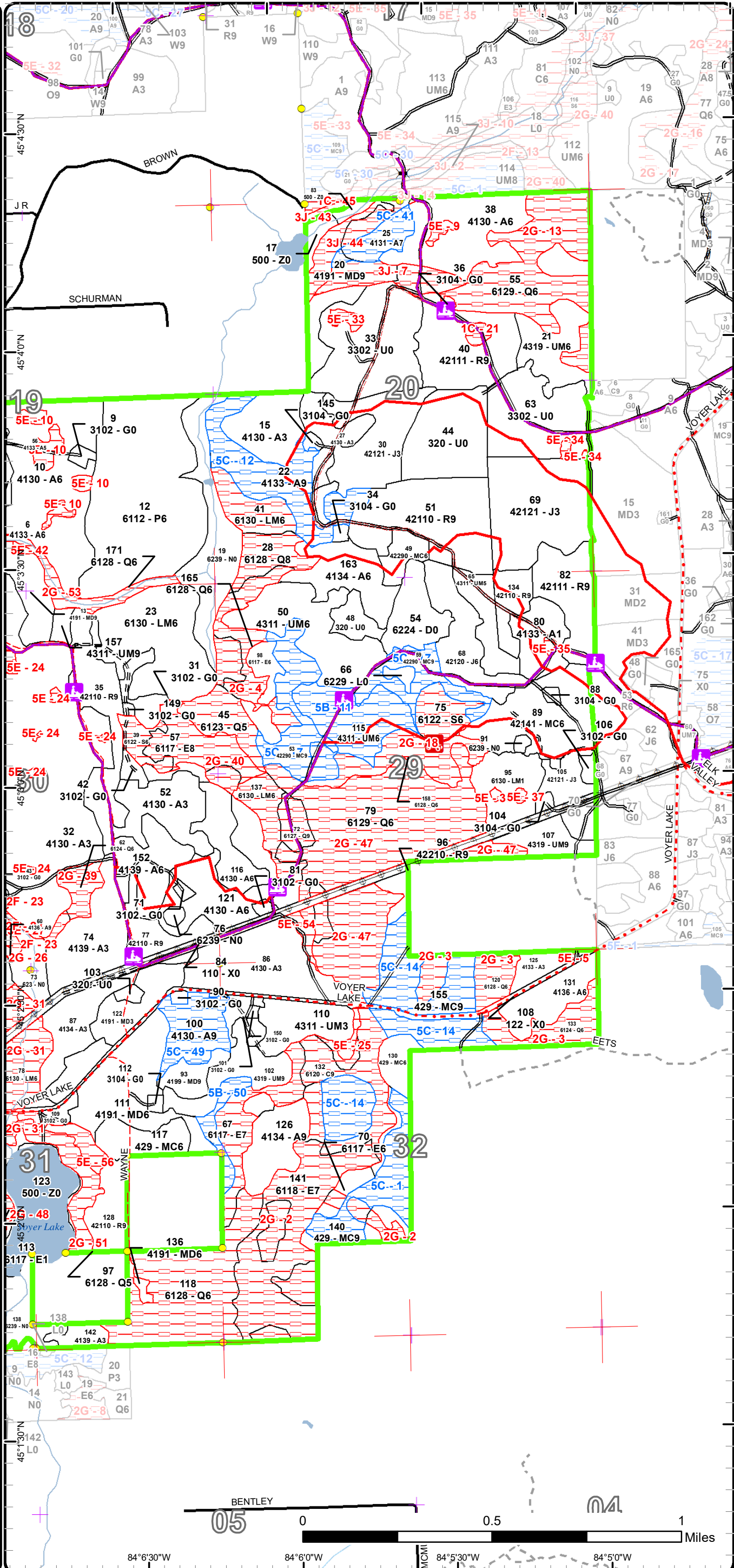


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Report 1 – Total Acres by Cover Type and Age Class



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 | 269 | 27 | 140 | 91 | 212 | 114 | 0 | 0 | 22 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 913 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 45 |
| Herbaceous Openland | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Jack Pine | 0 | 0 | 29 | 57 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Low-Density Trees | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 121 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 16 | 0 | 76 | 13 | 110 | 44 | 29 | 12 | 0 | 16 | 51 | 0 | 0 | 0 | 367 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 15 | 5 | 0 | 0 | 14 | 21 | 49 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| Lowland Mixed Forest | 0 | 19 | 0 | 0 | 69 | 13 | 0 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 173 |
| Lowland Shrub | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Marsh | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 108 |
| Mixed Upland Deciduous | 0 | 0 | 14 | 0 | 0 | 52 | 48 | 0 | 0 | 24 | 31 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Planted Mixed Pines | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 24 | 57 | 45 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 224 |
| Treed Bog | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 8 | 13 | 0 | 0 | 0 | 26 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |
| Upland Mixed Forest | 0 | 0 | 0 | 17 | 13 | 0 | 87 | 0 | 3 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 154 |
| Upland Shrub | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Urban | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Water | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Total | 433 | 288 | 70 | 214 | 384 | 301 | 338 | 108 | 185 | 240 | 263 | 153 | 4 | 24 | 51 | 0 | 0 | 0 | 3053 |



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 53

Total Compartment Acres: 3,053

Commercial Harvest - 432
 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 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| Mixed Upland Deciduous | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| Natural Mixed Pines | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Red Pine | 113 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 0 | 195 |
| Upland Conifers | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Upland Mixed Forest | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Total | 350 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 0 | 432 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|------------|------------|----------|-----------|------------|------------|----------|-----------------|-------------|
| Current | 432 | 15 | 0 | 0 | 0 | 0 | 87 | 0 | 40 | 574 |
| Next Step | 0 | 411 | 170 | 0 | 87 | 208 | 547 | 0 | 0 | 1423 |
| Total | 432 | 427 | 170 | 0 | 87 | 208 | 634 | 0 | 40 | 1997 |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|-----------------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|-----------------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

Approved Treatments:

| | | | | | | | | | | | |
|-----|--------------|------|--|-----------------|----|--------|---------|-------------------------|-------------|-----------|----|
| 119 | 54053002-Cut | 20.8 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 46 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
|-----|--------------|------|--|-----------------|----|--------|---------|-------------------------|-------------|-----------|----|

Prescription Clearcut with 3-10% retention (see site conditions layer for ideal locations pre-excluded). Leave all red and white pine and white spruce.
Specs: These trees are relatively rare within the stand and make up less than 10% of the canopy. Mark to leave legacy trees. ***Leave oak tops on top of oak stumps to limit browse. This is to allow oak stump sprouts to reach free to grow size, hopefully before the surrounding slash pile breaks down. Clearly state the purpose of leaving oak tops in the contract and to the producer once the sale begins. With this method, regeneration needs to be documented "early and often" to demonstrate success or failure of the practice.***
 Harvest with the treatment immediately to the west.

- Specifications:
 *Oak wilt with exceptions.
 *Harvest outside of spring
 *Extend contract to 4 years due to narrower harvest window
 *Current grouse log specification
 *Raptor

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any combination of aspen, maple, oak and native conifers.

Other Comment: Harvest this with stand 35 in the compartment to the west.

Site Condition

Proposed Start Date: 10/1 /2022

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|----|--------------|------|---|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----|
| 11 | 54053011-Cut | 45.4 | 42111 - Planted Red Pine, Mixed Deciduous | Sawtimber Well | 91 | 111-140 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | No |
|----|--------------|------|---|----------------|----|---------|---------|-------------------------|-------------------------|-----------|----|

Prescription Clear cut with 3-10% retention. Retention will be located in a 100' setback from the wetland in the SW. Thin this retention to 80BA, from below. Chip if possible. Use Atlanta unit chipping alternative (lopping) if not. Cut stumps low. Plant red pine.

- Specs:
 *Trail protection specifications (snowmobile/ORV)
 *Raptor
 *Oak wilt

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release

Acceptable Regen: Planted red pine with common native associates

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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|-----------|---------------------|------|--|----------------|----|--------|---------|-------------------------|-------------|-----------|----|
| 13 | 54053013-Cut | 24.9 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 96 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
|-----------|---------------------|------|--|----------------|----|--------|---------|-------------------------|-------------|-----------|----|

Prescription Clear cut with retention. Situate area retention as indicated in the site condition layer. Leave mark oak, red pine and white pine with legacy characteristics (here including two or more of the following: 26" DBH, large open grown crown, fire/lightning scars, platy bark). Leave tops and slash on top of oak stumps to a height of 4-6 feet.

Specs:
*Trail protection specifications (snowmobile/ORV)
*Raptor
*Oak wilt

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any combination of aspen, maple, oak and associated conifers

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----------|---------------------|-----|--|----------------|----|---------|---------|-------------------------|-------------------------------------|-----------|----|
| 20 | 54053020-Cut | 8.1 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 85 | 111-140 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
|-----------|---------------------|-----|--|----------------|----|---------|---------|-------------------------|-------------------------------------|-----------|----|

Prescription Clear cut without area retention owing to the stand's small size. Mark single tree retention not to exceed 10BA over all, especially red pine and red oak with large healthy crowns. Situate red oak, if retained, inside of a small leave clump.

Specs:
*raptor
*oak wilt

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any combination of aspen, maple, oak and native conifers

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----------|--------------------|-----|--------------|------------|--|--------------|--------------|---------------------------------|---------------------------|--|----|
| 24 | 54053024-NF | 1.9 | 3102 - Grass | Nonstocked | | Unspec ified | NonForestMgt | Herbaceous/Crop /Grass Planting | 310 - Herbaceous Openland | | No |
|-----------|--------------------|-----|--------------|------------|--|--------------|--------------|---------------------------------|---------------------------|--|----|

Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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 |
|--|-------|----------------------------------|--------------|-----------|-------------|----------------|---------------------------------|---------------------------|---------------|-------------|
| 26 54053026-NF | 10.6 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Herbaceous/Crop /Grass Planting | 310 - Herbaceous Openland | | No |
| <p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</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 /2023</p> | | | | | | | | | | |
| 31 54053031-NF | 6.6 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Herbaceous/Crop /Grass Planting | 310 - Herbaceous Openland | | No |
| <p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.</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 /2023</p> | | | | | | | | | | |
| 33 54053033-Monitor | 35.9 | 3302 - Low Density Conifer Trees | Nonstocked | 0 | | Monitoring | Artificial Regen(3yr) | 42110 - Planted Red Pine | Even-Aged | No |
| <p><u>Prescription</u> Perform a 3rd year artificial regeneration survey.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Burn, Slash</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Acceptable regen can be of medium/well stocked red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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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|-----------|---------------------|------|-----------------------------|-------------------|----|-------------|---------|----------------|----------------------------|-----------|----|
| 35 | 54053035-Cut | 25.0 | 42110 - Planted Red Pine | Sawtimber Well | 62 | 141- 170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | No |
|-----------|---------------------|------|-----------------------------|-------------------|----|-------------|---------|----------------|----------------------------|-----------|----|

Prescription Thin following the order of removal to 110BA. Prep under leaf off condition or pay in frustration

Specs: *Trail protection specifications (snowmobile/ORV)
*Raptor
*Bark slip

Next Step

Treatments:

Acceptable Regeneration is not a goal of this thinning

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----------|---------------------|------|---|-------------------|----|--------|---------|----------------------------|----------------------------|-----------|----|
| 40 | 54053040-Cut | 31.9 | 42111 - Planted Red Pine, Mixed Deciduous | Sawtimber Well | 83 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | No |
|-----------|---------------------|------|---|-------------------|----|--------|---------|----------------------------|----------------------------|-----------|----|

Prescription Clear cut. Retention is predesignated in the site conditioned area. Chip if possible. If not, use Atlanta unit chipping alternatives (lopping).

Specs: Cut stumps low. Plant red pine.
*Trail protection specifications (snowmobile and ORV)
*Raptor

Next Step

SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr);

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A stand in which planted red pine dominates

Regen:

Other

(archaeology in site conditioned area)

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----------|--------------------|-----|--------------|------------|--|-----------------|--------------|------------------------------------|---------------------------------|--|----|
| 42 | 54053042-NF | 2.6 | 3102 - Grass | Nonstocked | | Unspec ified | NonForestMgt | Herbaceous/Crop /Grass Planting | 310 - Herbaceous Openland | | No |
|-----------|--------------------|-----|--------------|------------|--|-----------------|--------------|------------------------------------|---------------------------------|--|----|

Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|-----------------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|-----------------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

43 54053043-NF 12.2 3102 - Grass Nonstocked Unspec ified NonForestMgt Herbaceous/Crop /Grass Planting 310 - Herbaceous Openland No

Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other when advancing to status 6 merge the three openings around the marsh if not already done
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

49 54053049-Cut 7.3 42290 - Natural Mixed Pine Poletimber Well 79 81-110 Harvest Clearcut 429 - Mixed Upland Conifers Even-Aged No

Prescription Clearcut with single tree retention. No area retention necessary due to the stands small size. Leave mark legacy trees if found. Leave mark red and white pine not to exceed 10BA.

Specs:
*Trail protection specifications (motorcycle and ORV)
*Raptor

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any mix of aspen, maple, oak, jack pine, red pine and white pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

51 54053051-Cut 46.3 42110 - Planted Red Pine Sawtimber Well 66 141-170 Harvest Crown Thinning 4211 - Planted Red Pine Even-Aged No

Prescription Thin to 110-120BA. In the western unit of the stand, establish rows for equipment access and thin lightly between the rows to avoid shocking the residual trees in this portion of the stand.

Specs:
*Raptor
*Trail protection specifications (motorcycle and ORV)
*Bark slip

Next Step
Treatments:

Acceptable regeneration is not a goal of this thinning
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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|-----------|---------------------|------|-----------------------------|----------------|----|---------|---------|-------------------------|-------------|-----------|----|
| 60 | 54053060-Cut | 51.7 | 4136 - Aspen, Mixed Conifer | Sawtimber Well | 59 | 111-140 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
|-----------|---------------------|------|-----------------------------|----------------|----|---------|---------|-------------------------|-------------|-----------|----|

Prescription Clear cut with 3-10% retention. Leave marked oak and white pine and leave all red pine not to exceed 10 BA over all. Mark to leave any legacy trees found within the sale area during sale preparation. Area retention is pre-delineated in the site conditions layer. Leave out steep slopes to Smith Creek and drainages to swamps. Pull harvest back from the ridge overlooking Smith Creek for visual purposes as this is a highly visible stand in a well-trafficked area. Timber mats or corduroy may be needed to cross the drainage into the south island of the harvest.

Specs:
 *Oak wilt (with exceptions: the "donut")
 *2" requirement
 *Raptor
 *Grouse logs according to current Atlanta specification
 *Rabbitat: brush piles approximately every 300' along the swamp edge.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of aspen, red maple, oak and coniferous associates.
Regen:

Other Previous inventory suggested consulting with the Wildlife Biologist.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----------|-------------------------|------|----------------------------------|------------|---|--|------------|-----------------------|---|-----------|----|
| 63 | 54053063-Monitor | 50.8 | 3302 - Low Density Conifer Trees | Nonstocked | 0 | | Monitoring | Artificial Regen(3yr) | 42111 - Planted Red Pine, Mixed Deciduous | Even-Aged | No |
|-----------|-------------------------|------|----------------------------------|------------|---|--|------------|-----------------------|---|-----------|----|

Prescription Perform a 3rd year artificial regeneration survey.

Specs:

Next Step Burn, Slash; SitePrep, Roller Chopping; Pesticide, (Inactive)Aerial
Treatments:

Acceptable Acceptable regen can be of medium/well stocked mixed red pine and oak
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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|-----------|---------------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----|
| 77 | 54053077-Cut | 12.8 | 42110 - Planted Red Pine | Sawtimber Well | 73 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
|-----------|---------------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----|

Prescription Clear cut without area retention. Leave all oak, white pine (wolfy-weevily) and marked red pine of the largest diameters with large dominant crowns not to exceed 10 BA over all.

Specs:
 *Trail protection specifications (snowmobile/ORV)
 *Waive 2" requirement
 *Oak Wilt
 *Raptor

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of aspen, maple, oak and native conifers
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



Standard

| 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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|-----------|----------------------|------|--------------------------|--------------|---|----------|----------|-----------------|-------------------------|-----------|----|
| 80 | 54053080-Prep | 15.3 | 4133 - Aspen, Mixed Pine | Sapling Poor | 3 | Immature | SitePrep | Roller Chopping | 4211 - Planted Red Pine | Even-Aged | No |
|-----------|----------------------|------|--------------------------|--------------|---|----------|----------|-----------------|-------------------------|-----------|----|

Prescription Roller chop to set back undesirable competition.
Specs: Site prep and planting treatments in stands 80 and 82 must be carried out simultaneously after the harvest in stand 82 is complete.
Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Acceptable Regen: A stand in which planted red pine dominates with native coniferous and deciduous associates.
Other Comment: Percent to Treat = 100%
Site Condition
Proposed Start Date: 10/1 /2023

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|-----------|---------------------|------|---|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----|
| 82 | 54053082-Cut | 22.5 | 42111 - Planted Red Pine, Mixed Deciduous | Sawtimber Well | 82 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | No |
|-----------|---------------------|------|---|----------------|----|--------|---------|-------------------------|-------------------------|-----------|----|

Prescription Specs: Clear cut. Focus 3-10% retention in the northwest where oak advanced regeneration is the most successful. Chip tops if possible. If not, use the Atlanta unit chipping alternative (lopping). Cut stumps low. Plant red pine.
 *Raptor
 *Trail protection specification for ORV/snowmobile trail
Next Step Treatments: SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)
Acceptable Regen: A stand in which planted red pine dominates with native coniferous and deciduous associates.
Other Comment: Site prep and planting treatments in stands 80 and 82 must be carried out simultaneously after the harvest in stand 82 is complete.
Site Condition
Proposed Start Date: 10/1 /2023

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|-----------|---------------------|-----|-------------------------------------|----------------|-----|--------|---------|-------------------------|-------------------------------------|-----------|----|
| 93 | 54053093-Cut | 7.8 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 102 | 81-110 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
|-----------|---------------------|-----|-------------------------------------|----------------|-----|--------|---------|-------------------------|-------------------------------------|-----------|----|

Prescription Specs: Clear cut. Retention will be marked oak at or above 26" DBH. These retention oak shall not exceed 10BA over all unless those trees show legacy tree characteristics (for this stand in addition to 26" diameter, these would include at least one of the following: open grown form, lightning scars, burn scars). Consider having slash and tops from adjacent harvests dragged into this stand to create a layer of slash between 4-6' (it may be clumped and not continuous) that should discourage browse. If this is done, return to the stand to monitor 1 year and 3 years after harvest to characterize the success or failure of this approach.
 Specifications:
 *Oak wilt, no exceptions
 *Raptor
Next Step Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)
Acceptable Regen: Any combination of red maple, oak, aspen and native conifers
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2023



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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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|------------|--------------------|-----|--------------|------------|--|-------------|--------------|---------------------------------|---------------------------|----|
| 101 | 54053101-NF | 5.9 | 3102 - Grass | Nonstocked | | Unspecified | NonForestMgt | Herbaceous/Crop /Grass Planting | 310 - Herbaceous Openland | No |
|------------|--------------------|-----|--------------|------------|--|-------------|--------------|---------------------------------|---------------------------|----|

Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|------------|---------------------|------|----------------------------|----------------|-----|---------|---------|-------------------------|-------------------------------------|-----------|----|
| 102 | 54053102-Cut | 19.5 | 4319 - Mixed Upland Forest | Sawtimber Well | 102 | 141-170 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
|------------|---------------------|------|----------------------------|----------------|-----|---------|---------|-------------------------|-------------------------------------|-----------|----|

Prescription Clear cut with retention. Area retention is predesignated in the easternmost portion of the stand. Leave all spruce; they are a poorly represented species under 10% of canopy throughout. Mark to leave no greater than 10BA, over all, of the following, except when these trees have legacy characteristics:
 *Red and White Pine above 22" DBH
 *Oak 26" DBH and above
 Specifications
 *Oak wilt
 *Protect pine advanced regeneration
 *Brush piles approximately every 300' along the swamp edge (rabbitat)
 *Raptor

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any combination of aspen, maple, oak and associated native conifers.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|------------|---------------------|------|--|-----------------|----|--------|---------|-------------------------|-------------------------|-----------|----|
| 111 | 54053111-Cut | 41.7 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 53 | 81-110 | Harvest | Clearcut with Retention | 4211 - Planted Red Pine | Even-Aged | No |
|------------|---------------------|------|--|-----------------|----|--------|---------|-------------------------|-------------------------|-----------|----|

Prescription Clear cut with 3-10% retention representative of stand composition. Cut stumps low. Chip or use Atlanta chipping alternative specification.
Specs: Prepare for red pine.
 *Raptor
 *Oak wilt

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release
Treatments:

Acceptable Planted red pine with native associates
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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|-----|--------------|------|-----------------------------|-----------------|----|--------|---------|----------|-------------------------|-----------|----|
| 117 | 54053117-Cut | 13.1 | 429 - Mixed Upland Conifers | Poletimber Well | 52 | 81-110 | Harvest | Clearcut | 4211 - Planted Red Pine | Even-Aged | No |
|-----|--------------|------|-----------------------------|-----------------|----|--------|---------|----------|-------------------------|-----------|----|

Prescription Clear cut without retention owing to the stand's small size. Cut stumps low, chip/Atlanta chipping alternative to prepare for planting.

Specs: *Raptor
*Oak wilt

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine of at least moderate stocking with common native arboreal associates.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----|--------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----|
| 126 | 54053126-Cut | 18.1 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 84 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
|-----|--------------|------|--------------------------|----------------|----|--------|---------|-------------------------|-------------|-----------|----|

Prescription Clear Cut with Retention. Leave all spruce, cedar and white pine. Should not have to mark these trees as they do not make more than 10% of the canopy. Locate retention in the wet swale, already shown with site condition 2G, between this stand and the one to the east (155 MC 9). Cover oak stumps with 4-6' of slash in depth. Indicate the largest few wet pockets on the sale map. Cut in dry summer or frozen winter conditions. Four year contact for narrow operational window.

Specs: *Current Atlanta grouse specification
*Rabbitat along the wetland edge every 300-400'
*Raptor specification
*Operating caution (operate outside of spring)
*Oak wilt

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen with any combination of red maple, oak, basswood (found in adjacent stand), cedar, white pine, spruce and balsam fir.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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|-----|--------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----|
| 128 | 54053128-Cut | 10.7 | 42110 - Planted Red Pine | Sawtimber Well | 63 | 141-170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Even-Aged | No |
|-----|--------------|------|--------------------------|----------------|----|---------|---------|----------------|-------------------------|-----------|----|

Prescription Thin to 110-120BA

Specs: *raptor
*bark slip

Next Step
Treatments:

Acceptable Thinning is not a regeneration harvest
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



S
t
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n
d

| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|--|-------|--------------------------|----------------|-----------|----------|----------------|-------------------------|-------------------------------------|---------------|-------------|
| 157 54053157-Cut | 2.9 | 4311 - Pine, Aspen Mix | Sawtimber Well | 70 | 111-140 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Clear cut without area retention. Mark to leave wind-firm white or red pine with healthy crowns not to exceed 10 basal area.</p> <p><u>Specs:</u> *Trail protection specifications (snowmobile/ORV) *Raptor *Oak wilt</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mixture of aspen, maple, oak and native conifers</p> <p><u>Regen:</u></p> <p><u>Other</u> Post harvest this probably will merge with stand to the west.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | |
| 163 54053163-Cut | 21.7 | 4134 - Aspen, Spruce/Fir | Poetimber Well | 48 | 51-80 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Clear cut with 3-10% retention. Situate retention in wetter areas. Leave mark legacy trees, if found. Leave mark red pine, white pine and spruce not to exceed 10 BA.</p> <p><u>Specs:</u> *Trail protection specifications (motorcycle) *Raptor *Grouse</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, maple, oak, jack pine, red pine, white pine and white spruce</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 /2023</p> | | | | | | | | | | |

Total Treatment Acreage Proposed: 574

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Acres Not Available | | Dominant Site Conditions | | | | | | | | | |
|----------------|--------------------|----------------|--|------------------------|-----------------------------|--------------------------|-----|----|----|-----|----|----|----|----|----|
| | | With Condition | | | | 5B | 5C | 1C | 2F | 2G | 3A | 3D | 3J | 5A | 5E |
| 909 | 707 | 153 | | 50 | Aspen | 16 | 137 | | 3 | 19 | | 2 | 12 | | 15 |
| 45 | 5 | 0 | | 40 | Cedar | | | | | 32 | | | | 8 | |
| 74 | 74 | 0 | | 0 | Herbaceous Openland | | | | | | | | | | |
| 110 | 110 | 0 | | 0 | Jack Pine | | | | | | | | | | |
| 103 | 99 | 0 | | 4 | Low-Density Trees | | | | | | | | | | 4 |
| 121 | 121 | 0 | | 0 | Lowland Aspen/Balsam Poplar | | | | | | | | | | |
| 368 | 1 | 0 | | 367 | Lowland Conifers | | | | | 367 | | | | | |
| 128 | 16 | 7 | | 105 | Lowland Deciduous | 7 | | | | 105 | | | | | |
| 172 | 61 | 0 | | 111 | Lowland Mixed Forest | | 0 | | | 110 | | | | | 1 |
| 5 | 5 | 0 | | 0 | Lowland Shrub | | | | | | | | | | |
| 20 | 0 | 0 | | 20 | Lowland Spruce/Fir | | | | | 20 | | | | | |
| 108 | 108 | 0 | | 0 | Marsh | | | | | | | | | | |
| 177 | 152 | 1 | | 24 | Mixed Upland Deciduous | | 1 | | | 1 | | | 15 | | 8 |
| 45 | 7 | 37 | | 0 | Natural Mixed Pines | | 37 | | | | | | | | |
| 5 | 0 | 5 | | 0 | Northern Hardwood | | 5 | | | | | | | | |
| 8 | 0 | 2 | | 6 | Oak | | 2 | | | | 6 | | | | |
| 35 | 35 | 0 | | 0 | Planted Mixed Pines | | | | | | | | | | |
| 224 | 222 | 0 | | 2 | Red Pine | | | | 2 | | | | | | |
| 16 | 16 | 0 | | 0 | Treed Bog | | | | | | | | | | |
| 96 | 22 | 73 | | 2 | Upland Conifers | | 73 | | | 2 | | | | | |
| 154 | 120 | 30 | | 4 | Upland Mixed Forest | 30 | | | | 2 | | | | | 2 |
| 39 | 39 | 0 | | 0 | Upland Shrub | | | | | | | | | | |
| 50 | 48 | 2 | | 0 | Urban | | 2 | | | | 0 | | | | |
| 36 | 36 | 0 | | 0 | Water | | | | | | | | | | |
| 3,050 | 2,006 | 309 | | 735 | Total Forested Acres | 52 | 257 | 2 | 3 | 657 | 6 | 2 | 26 | 8 | 30 |
| | 66% | 10% | | 24% | 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 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 23 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|---|--------------------|--|-----|---|-------------|-------------|-------------|
| Stand is healthy. Hold until the poles in the canopy and adjacent pole stands put on a little more size and harvest the lot together. | | | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 166 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 3 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 29 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 59 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 5E: Long-Term Retention | 0 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 5A: Not able to obtain desirable regeneration | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 14 | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified | Unspecified |
| Comments: A closely set network of drainages and pools. | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|---|--------------------|---|----|----------------------------------|-------------|-------------|-------------|
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: very wet drainage inside upland aspen stand | | | | | | | |
| 9 | Unavailable | 5E: Long-Term Retention | 2 | 3D: Recreational / Scenic values | Unspecified | Unspecified | Unspecified |
| Comments: While not strictly described as retention in the sale material from 1984, this oak patch was left out of the sale to address visual concerns. The stand examiner believes it acts like retention in the current stand and should be coded that way. | | | | | | | |
| 10 | Unavailable | 5E: Long-Term Retention | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Current stand examiner found original sale map showing these as reserve areas. | | | | | | | |
| 11 | Available | 5B: Maintain for regeneration purposes | 30 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 12 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 34 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: delay treatment until the sapling aspen stand (27) to the east on either side of the trail fully reaches merchantable size, then cut the two (22 & 27) at the same time. Apply appropriate water quality BMPs | | | | | | | |
| 13 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 51 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|---|--------------------|---|----|-------------|-------------|-------------|-------------|
| 14 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 50 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Hold for next year of entry and consider treatment then | | | | | | | |
| 15 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 16 | Available | 5B: Maintain for regeneration purposes | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: The stand is on the wane. In many areas it's already regenerating to a mesic upland forest dominated by red maple. Its odd shape and small area could also make harvest more disagreeable than it's worth. | | | | | | | |
| 17 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 37 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Stand 53 and 59 both probably share a common origin besides being on a similar site or soil. Treatment should probably occur together in a future year of entry. Both stands lean toward the wet side so care will have to be taken in sale preparation and administration. | | | | | | | |
| 18 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 30 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|--|--------------------|---|----|--|-------------|-------------|-------------|
| 19 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 82 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Voyer Lake Road has seen a large number of harvests in recent years of entry. The stand examiner would like to keep treatments away from Voyer Lake Road for the most part in the compartment for some visual relief along the road. | | | | | | | |
| 20 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Drainage within aspen stand | | | | | | | |
| 21 | Unavailable | 1C: Other dept or div proc/practices | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 22 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Only mature oak stand in this part of the compartment. Stand is small in size and terrain is very steep. A cut would cause aspen to take over. | | | | | | | |
| 23 | Unavailable | 2F: Too steep | 3 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: Steep slopes terminating in a wetland and beaver dam impounded stream course. | | | | | | | |
| 24 | Unavailable | 5E: Long-Term Retention | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|--|--------------------|--|---|--|-------------|-------------|-------------|
| 25 | Unavailable | 5E: Long-Term Retention | 2 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: Long term area retention for harvest in stand 102 plus stream buffer in the east. | | | | | | | |
| 26 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Drainage within aspen stand. Will likely need timber mats or corduroy to cross. | | | | | | | |
| 27 | Unavailable | 5E: Long-Term Retention | 1 | 3D: Recreational / Scenic values | Unspecified | Unspecified | Unspecified |
| Comments: A good spot for area retention representative of the stand 1) for windfirmness of the trees along the slope, 2) several legacy trees on slope to wetland, 3) fairly well traveled area recreationally, pulling the harvest back should improve aesthetics here | | | | | | | |
| 28 | Unavailable | 2F: Too steep | 1 | 3D: Recreational / Scenic values | Unspecified | Unspecified | Unspecified |
| Comments: Slopes terminating in wetlands and stream courses. As this is a well traveled area, aesthetics should be considered. Pull harvest boundary line back from the shoulder slope sufficient to avoid windthrow on the slope (approximately a tree-length). | | | | | | | |
| 29 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Mirror retention in adjacent harvest. Area retention for harvest in aspen to the east. | | | | | | | |
| 30 | Unavailable | 3D: Recreational / Scenic values | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Pull harvest back from shoulder slope a tree-length to avoid wind throw on the slope. This is a highly visible and well-traveled area. | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|-----------|-------------|---|----|-------------|-------------|-------------|-------------|
| 31 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 73 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 32 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 33 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 34 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 35 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 36 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 37 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|--|-------------|--|----|--------------------------------------|-------------|-------------|-------------|
| 38 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Long term aggregate retention for partial harvest of stand 2 | | | | | | | |
| 39 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 40 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 27 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 41 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 42 | Unavailable | 5E: Long-Term Retention | 1 | 1C: Other dept or div proc/practices | Unspecified | Unspecified | Unspecified |
| Comments: Long term aggregate retention for harvest in stand 13. | | | | | | | |
| 43 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: 100' setback for water body. | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|--|--------------------|---|-----|---|-------------|-------------|-------------|
| 44 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: approximately 300' setback for cold water stream | | | | | | | |
| 45 | Unavailable | 1C: Other dept or div proc/practices | 1 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: Manage with stand to the north. | | | | | | | |
| 46 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Manage with stand to the north. | | | | | | | |
| 47 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 131 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 48 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Sphagnum, standing water and muck | | | | | | | |
| 49 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 53
Year of Entry: 2024

| | | | | | | | |
|---|-------------|---|----|---|--------------------------------------|-------------|-------------|
| 50 | Available | 5B: Maintain for regeneration purposes | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 51 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 52 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 53 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 16 | 3J: Water quality / BMPs (stream, river, or lake) | 1C: Other dept or div proc/practices | Unspecified | Unspecified |
| Comments: Wet flats and slopes leading to creek. | | | | | | | |
| 54 | Unavailable | 5E: Long-Term Retention | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Long-term aggregate retention for the stand to the west | | | | | | | |
| 56 | Unavailable | 5E: Long-Term Retention | 6 | 3D: Recreational / Scenic values | Unspecified | Unspecified | Unspecified |
| Comments: Area retention for harvest in stand 111. Serves important visual purpose in the Voyer Lake viewshed, a popular location for recreation. | | | | | | | |

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 Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |



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

| | | | | | | | |
|----------|---------------------------------------|----------------|-----|----|---------|-----|---|
| 1 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 5.2 | 79 | 111-140 | N/A | Generally beech is more common in the north, while the south contains more log sized sugar maple than elsewhere. Super small stand to stand on its own. Probably best to manage with the hardwood stand to the north in the next compartment. |
|----------|---------------------------------------|----------------|-----|----|---------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|---------------|-----|-----|
| Quaking Aspen | 5 | Log/Pole | 11 | |
| Sugar Maple | 30 | Pole/Log | 9 | 79 |
| Basswood | 45 | Log/Pole/XLog | 14 | 79 |
| Red Oak | 5 | XLog/Log | 20 | |
| Beech | 15 | Log/Pole | 11 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| White Pine | Low | 5 - 10 feet | Sapling |
| Beech | Low | < 5 feet | Sapling |

| | | | | | | | |
|----------|-----------------------------|-----------------|------|----|--------|-----|--|
| 2 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 34.7 | 46 | 81-110 | N/A | Conifers more numerous to the east usually with a dense balsam fir understory. Like a lot of aspen stands in this area, there seems to have been a couple harvests within about 10 years of each other. Most seemed to fall around the 46 year range while others were a decade older. |
|----------|-----------------------------|-----------------|------|----|--------|-----|--|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|---------------|-----|-----|
| Quaking Aspen | 35 | Pole/Log | 8 | 46 |
| Balsam Poplar | 2 | Pole | 8 | |
| Balsam Fir | 15 | Sapling | 4 | |
| White Pine | 10 | Log/Pole/XLog | 11 | |
| Red Pine | 2 | Log | 16 | |
| Red Maple | 7 | Pole/Sapling | 5 | |
| Black Cherry | 5 | Pole/Sapling | 5 | |
| Paper Birch | 4 | Pole/Sapling | 6 | |
| Red Oak | 10 | XLog | 22 | |
| Bigtooth Aspen | 10 | Pole | 8 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|--------------|------------|
| Hazelnut (American) | Medium | 5 - 10 feet | Tall Shrub |
| Red Oak | Low | 5 - 10 feet | Sapling |
| Red Maple | Medium | 10 - 20 feet | Sapling |
| Serviceberry (Juneberry) | Low | Variable | Sapling |
| Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| Balsam Fir | High | Variable | Sapling |

| | | | | | | | |
|----------|--------------|------------|-----|--|-------------|----|--|
| 3 | 3102 - Grass | Nonstocked | 2.6 | | Unspecified | No | An opening that doesn't look maintained. |
|----------|--------------|------------|-----|--|-------------|----|--|

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Jack Pine | Trace | 5 - 10 feet | Sapling |
| White Pine | Low | 10 - 20 feet | Sapling |
| Red Maple | Trace | >20 feet | Sapling |
| Black Cherry | Low | 10 - 20 feet | Sapling |
| Mixes Sedges/Grasses | Medium | 5 - 10 feet | Non-Wood |
| Blackberry/Raspberry | Medium | < 5 feet | Tall Shrub |
| Hawthorn (spp.) | Trace | 5 - 10 feet | Tall Shrub |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Autumn Olive | Low | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | Low | < 5 feet | Sapling |
| Northern Pin Oak | Trace | >20 feet | Sapling |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|-----------------|------------|-----------|------------------------------|--------------------------|--|--------------------|---------|-------------|------|--------------------------|--------------------|-------------|-------------|----------------------|------------|-------------|---------------|---------------|-------|------------------------------|---------|----------------------|------------|-------------|----------|--------------|-----|-------------|-------------|-----------------|----------|-------------|----------------|----|------|---|--|------------|--------|--------------|---------|-----------|----|----------|---|--|---------|-------|--------------|---------|---------------|----|------|---|----|-------------|-----|-------------|------------|---------|----|-----|----|--|----------|-------|--------------|---------|
| 4 | 3102 - Grass | Nonstocked | 1.0 | | Unspecified | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Spotted Knapweed</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Mixes Sedges/Grasses</td> <td>Full</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Little Bluestem</td> <td>Trace</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> </tbody> </table> | | | | | | | | Sub-Canopy Species | Density | Avg. Height | Size | Spotted Knapweed | Medium | Unspecified | Non-Wood | Mixes Sedges/Grasses | Full | Unspecified | Non-Wood | Red Pine | Low | 5 - 10 feet | Sapling | Jack Pine | Low | 5 - 10 feet | Sapling | White Pine | Low | 5 - 10 feet | Sapling | Little Bluestem | Trace | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spotted Knapweed | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Little Bluestem | Trace | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3302 - Low Density Conifer Trees | Nonstocked | 23.1 | 0 | Unspecified | 42110 - Planted Red Pine | Most planting spaces are occupied in the recent red pine planting. The seedlings are difficult to pick out in the grass in spring. It may be that the recent planting doesn't meet the 80% success threshold. However, when considering the established red pine throughout, the stand will probably be at least one of moderate stocking. Herbicide seems to have top killed most of the cherry throughout. The main competition for recently planted seedlings comes from serviceberry, bracken fern and sedges and grasses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serviceberry (Juneberry) | Low | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixes Sedges/Grasses | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | High | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4133 - Aspen, Mixed Pine | Poletimber Well | 26.3 | 47 | 81-110 | N/A | Seems like a fairly good site for a mix of species. White pine seems to have seeded readily in open patches. As one moves south and down-slope quaking aspen and red maple increase. Some areas near the creek are seasonally wet. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>15</td> <td>Log/Pole/XLog</td> <td>10</td> <td>47</td> <td>Blueberry/Bilberry/Cranberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>XLog</td> <td>20</td> <td></td> <td>Wintergreen</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> <td>White Pine</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> <td>Red Oak</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole</td> <td>8</td> <td>47</td> <td>Witch Hazel</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> <td>Red Pine</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | White Pine | 15 | Log/Pole/XLog | 10 | 47 | Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | Red Pine | 10 | XLog | 20 | | Wintergreen | Low | < 5 feet | Tall Shrub | Bigtooth Aspen | 15 | Pole | 8 | | White Pine | Medium | 10 - 20 feet | Sapling | Red Maple | 20 | Pole/Log | 8 | | Red Oak | Trace | 10 - 20 feet | Sapling | Quaking Aspen | 30 | Pole | 8 | 47 | Witch Hazel | Low | 5 - 10 feet | Tall Shrub | Red Oak | 10 | Log | 14 | | Red Pine | Trace | 10 - 20 feet | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 15 | Log/Pole/XLog | 10 | 47 | Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 10 | XLog | 20 | | Wintergreen | Low | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 15 | Pole | 8 | | White Pine | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 20 | Pole/Log | 8 | | Red Oak | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 30 | Pole | 8 | 47 | Witch Hazel | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Log | 14 | | Red Pine | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 110 - Low Intensity Urban | Nonstocked | 2.1 | | Unspecified | No | Hungry 5 Road. Native surface. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 6229 - Mixed lowland shrub | Nonstocked | 3.4 | | Unspecified | No | Beaver impounded creek. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Willow spp. | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Full | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | Trace | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixes Sedges/Grasses | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cattail spp. | Low | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

9 3102 - Grass Nonstocked 1.8 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Mixes Sedges/Grasses | High | Unspecified | Non-Wood |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Blackberry/Raspberry | Medium | < 5 feet | Tall Shrub |

10 4130 - Aspen Poletimber Well 62.1 25 1-50 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|--------------------------|---------|--------------|-----|-----|
| Quaking Aspen | 30 | Sapling | 2 | |
| White Pine | 8 | Sapling | 3 | |
| Red Pine | 5 | Log | 13 | |
| Black Cherry | 3 | Sapling/Pole | 4 | |
| Balsam Poplar | 5 | Sapling/Pole | 4 | |
| Serviceberry (Juneberry) | 2 | Sapling | 1 | |
| Red Oak | 2 | Log | 12 | |
| Bigtooth Aspen | 45 | Pole/Sapling | 5 | 25 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| White Pine | Medium | 5 - 10 feet | Sapling |
| Sweet Fern | Low | < 5 feet | Tall Shrub |

This stand has just recruited to the pole size class. Some old skid paths appear to have been maintained for ORV access. Open areas tend to contain cherry and free to grow white pine, where white pine is usually not within the closed-canopy portions of the stand.

11 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 45.4 91 111-140 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Quaking Aspen | 5 | Pole/Log | 9 | |
| White Pine | 3 | Log/Pole | 10 | |
| Red Maple | 5 | Pole/Log | 8 | |
| Black Cherry | 1 | Log/Pole | 10 | |
| Balsam Fir | 2 | Pole/Sapling | 6 | |
| Red Pine | 74 | XLog/Log | 18 | 91 |
| Red Oak | 10 | Pole/Log | 8 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|--------------|------------|
| Red Maple | Medium | 10 - 20 feet | Sapling |
| White Oak | Low | >20 feet | Sapling |
| Red Oak | Medium | 10 - 20 feet | Sapling |
| Balsam Fir | Low | 5 - 10 feet | Sapling |
| Hazelnut (Spp.) | Medium | 5 - 10 feet | Tall Shrub |
| White Pine | Low | 10 - 20 feet | Sapling |
| Serviceberry (Juneberry) | Low | >20 feet | Tall Shrub |

Small drainage in the south. The water table seems close to the surface. Very nice pine and a good site for pine.

12 6112 - Lowland Aspen Poletimber Well 86.4 35 51-80 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Black Cherry | 2 | Sapling | 3 | |
| American Elm | 3 | Sapling/Pole | 3 | |
| Paper Birch | 10 | Sapling | 3 | |
| Quaking Aspen | 50 | Pole/Sapling | 5 | 35 |
| Balsam Poplar | 10 | Pole/Sapling | 5 | 35 |
| Balsam Fir | 20 | Pole/Sapling | 6 | |
| White Pine | 5 | Log/Pole | 10 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------------|---------|-------------|------------|
| Alder | Low | 5 - 10 feet | Tall Shrub |
| Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub |
| Sedges | High | Unspecified | Non-Wood |
| Hazelnut (Spp.) | Medium | 5 - 10 feet | Tall Shrub |

This stand has just transitioned to a pole stand. Low spots and drainages contain balsam poplar and a large amount of elm. Black ash was a former stand component that has died out. Numerous ice roads seem to traverse the stand. Skid paths from the last harvest still are evident as areas of compaction or alleys in balsam fir. There are upland areas but over all the stand's character and limiting factors seem that of a lowland stand.



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

13 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 24.9 96 81-110 N/A

Excellent quality red oak. Portions of the stand probably approach a hardwood site's richness. Aspen in general is in need of a harvest: most show conk and a considerable number look to be in the 80-90 year old range. A good deal of browse along the stand margins.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------------|---------|-------------|------------|
| Basswood | 2 | Log/XLog | 16 | 96 | Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| Bigtooth Aspen | 4 | Pole | 8 | | Hazelnut (Spp.) | Medium | 5 - 10 feet | Tall Shrub |
| Red Oak | 30 | Log/XLog | 16 | 96 | Red Maple | Low | >20 feet | Sapling |
| Quaking Aspen | 20 | Log/Pole | 10 | 84 | White Pine | Low | Variable | Sapling |
| White Pine | 11 | Log/XLog/Pole | 16 | | Balsam Fir | Trace | Variable | Sapling |
| Red Pine | 12 | Log/XLog | 16 | | Serviceberry (Juneberry) | Low | >20 feet | Tall Shrub |
| Paper Birch | 5 | Pole/Log | 9 | | | | | |
| Red Maple | 15 | Log/Pole | 10 | 96 | | | | |

14 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.3 92 111-140 N/A

There are a surprising number of oak saplings in the stand's west. Red maple poles in the same area are about 45 years old (40 at dbh). This stand is basically a fringe of stand 139, to the south, transitioning to upland.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|--------------|------------|
| Balsam Fir | 15 | Pole | 7 | | Tag Alder | Low | 5 - 10 feet | Tall Shrub |
| White Spruce | 13 | Log/Pole | 11 | 92 | White Spruce | Trace | 5 - 10 feet | Sapling |
| Red Maple | 30 | Pole/Log | 9 | 92 | White Oak | Low | 10 - 20 feet | Sapling |
| Paper Birch | 3 | Log/Pole | 12 | | Red Oak | Low | 10 - 20 feet | Sapling |
| White Pine | 10 | XLog | 24 | | Balsam Fir | High | 10 - 20 feet | Sapling |
| Red Pine | 2 | Log | 14 | | | | | |
| Red Oak | 15 | XLog | 24 | | | | | |
| White Oak | 2 | XLog | 20 | | | | | |

15 4130 - Aspen Sapling Well 19.0 7 Immature N/A

Many deer beds in the center. Former skid paths have an almost "mowed" appearance from browse although it looks like the saplings will eventually fill in. Red maple is browsed especially hard.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|------------|-----|-----|
| Red Maple | 5 | Sapling | 1 | |
| White Pine | 10 | Sapling | 2 | |
| Black Cherry | 5 | Sapling | 1 | |
| Balsam Fir | 5 | Sapling | 1 | |
| Quaking Aspen | 10 | Sapling | 1 | |
| Bigtooth Aspen | 65 | Sapling | 1 | 7 |

17 500 - Water Nonstocked 3.8 Unspecified No

A beaver dam has historically impounded this stretch of Brush Creek. A beaver lodge is plain to see, probably on private land. The 1984 compartment inventory identifies this as the headwaters of Brush Creek, although, depending on how you look at it, the headwaters may be farther south.

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Reed Canary Grass | Low | Unspecified | Non-Wood |
| Mixes Sedges/Grasses | Low | Unspecified | Non-Wood |
| Alder | Trace | 5 - 10 feet | Tall Shrub |
| Willow spp. | Trace | 5 - 10 feet | Tall Shrub |



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

18 4136 - Aspen, Mixed Conifer Sawtimber Well 23.8 96 111-140 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|---------------|-----|-----|
| Bigtooth Aspen | 30 | Log/Pole/XLog | 13 | 96 |
| White Spruce | 1 | Log/Pole | 10 | |
| Balsam Fir | 10 | Pole | 7 | |
| Red Pine | 1 | XLog | 18 | |
| Jack Pine | 2 | Pole/Log | 8 | |
| White Pine | 6 | Log/Pole/XLog | 13 | |
| Tamarack | 3 | Log/Pole | 11 | |
| Red Maple | 25 | Pole | 8 | 58 |
| Northern White Cedar | 5 | Log/Pole/XLog | 13 | |
| Quaking Aspen | 10 | Log/Pole/XLog | 13 | |
| Paper Birch | 7 | Pole | 7 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Red Maple | High | >20 feet | Sapling |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| White Pine | Medium | 10 - 20 feet | Sapling |
| White Oak | Trace | 10 - 20 feet | Sapling |
| Red Oak | Trace | >20 feet | Sapling |
| Balsam Fir | Low | < 5 feet | Sapling |

The stand examiner left the previous inventory's stand age since current cores were close but difficult to pinpoint age due to rot. The nearly 100 year old aspen canopy is breaking apart. A second age of aspen looks to be about 50-60 years old. An advanced regeneration layer of red maple saplings is common throughout. The stand is like a trough with upland sides that dissolve into a mucky drainage featuring fairly thick alder and components that resemble swamp hardwoods. Feels a bit schizophrenic. Even so, it is a diverse stand in terms of species composition, land position and canopy composition.

19 6239 - Mixed Emergent Wetland Nonstocked 30.8 Unspecified No Beaver dams in the north.

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| White Pine | Low | 5 - 10 feet | Sapling |
| Quaking Aspen | Low | 10 - 20 feet | Sapling |
| Bulrush | Low | Unspecified | Non-Wood |
| Alder | Low | 5 - 10 feet | Tall Shrub |
| Balsam Fir | Low | 5 - 10 feet | Sapling |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |
| Meadowsweet | Low | < 5 feet | Tall Shrub |
| Spiraea spp. | Medium | < 5 feet | Tall Shrub |

20 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 23.9 85 111-140 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|---------------|-----|-----|
| Red Pine | 20 | Log | 13 | 74 |
| White Spruce | 1 | Log | 15 | 85 |
| Paper Birch | 5 | Pole | 6 | |
| Quaking Aspen | 20 | Log/Pole | 15 | 85 |
| White Pine | 10 | Log/XLog/Pole | 16 | |
| Red Maple | 15 | Pole | 8 | |
| Red Oak | 10 | Log/XLog | 16 | |
| Bigtooth Aspen | 14 | Pole/Log | 9 | 51 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| Balsam Fir | Medium | Variable | Sapling |
| White Pine | Low | < 5 feet | Seeding |
| Red Maple | Medium | Variable | Sapling |
| Red Pine | Trace | < 5 feet | Seeding |

Heavy browse to seedlings in the herbaceous layer. Many pools, springs and drains in the stand's center. From this east-west band of hydrology northward, the stand seems primarily older, features more oak and pine, and probably was more or less left as a buffer for surface water. The aspen in this area, especially in the band of complex hydrology, are very large and clearly in decline. South of the hydrological band, there is a mix of what the stand examiner believes are planted red pine, big tooth aspen and mature oak.



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

| 21 | 4319 - Mixed Upland Forest | Poletimber Well | 23.8 | 53 | 81-110 | N/A | This stand is composed of cast off bits of other stands, probably due to past treatments, soil types and current delineations, and a few ridges and knolls in and just outside of the swamp. Several rail grades or ice roads have left traces in the stand. The best aspen is in the south where it achieves 4-5 sticks. Elsewhere 2-3 is more common. The ridges are excessively well drained with south faces exhibiting drought-tolerant species like northern pin oak. North faces feature balsam fir, which often can be very dense and also be the main tree species in the area. Along the rail grades and ice roads, legacy and near legacy pine are common. Red pine are typically over 20", show open grown form, have decadent tops and may have clear fire scars. Fire scars are on the southeastern face. | | |
|----------------------|----------------------------|-----------------|------|-----|------------------------------|---------|---|-------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Red Maple | 20 | Pole | 6 | | Red Oak | Trace | | 5 - 10 feet | Sapling |
| Red Pine | 8 | Log/XLog/Pole | 17 | | Blueberry/Bilberry/Cranberry | High | | < 5 feet | Tall Shrub |
| Paper Birch | 2 | Log | 11 | | Balsam Fir | Medium | | 5 - 10 feet | Sapling |
| Red Oak | 6 | Log/XLog/Pole | 16 | 98 | White Spruce | Trace | | < 5 feet | Seeding |
| Quaking Aspen | 25 | Pole | 6 | 53 | Red Maple | Low | | >20 feet | Sapling |
| Northern Pin Oak | 3 | Pole | 6 | | | | | | |
| Balsam Fir | 20 | Pole/Sapling | 6 | | | | | | |
| White Spruce | 3 | Pole | 6 | | | | | | |
| Northern White Cedar | 5 | Pole/Log | 9 | | | | | | |
| Tamarack | 1 | Pole/Log | 8 | | | | | | |
| White Pine | 7 | Log/Pole/XLog | 12 | | | | | | |

| 22 | 4133 - Aspen, Mixed Pine | Sawtimber Well | 33.6 | 54 | 111-140 | N/A | Formerly this stand and the stand to the south were one. This stand is upland, while the one to the south is wetland. There are a few relic pine that are or are approaching legacy status.. A band along Brush Creek seems generally left alone in the last harvest and features more pine. | | |
|----------------|--------------------------|----------------|------|-----|--------------------------|---------|--|--------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Balsam Fir | 10 | Pole/Sapling | 6 | | Red Pine | Trace | | 5 - 10 feet | Sapling |
| White Spruce | 1 | Pole | 6 | | White Pine | Low | | 5 - 10 feet | Sapling |
| White Pine | 20 | Log/Pole/XLog | 16 | | Serviceberry (Juneberry) | Low | | 10 - 20 feet | Tall Shrub |
| Red Oak | 2 | Log/Pole | 14 | | Cherry (spp.) | Low | | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 32 | Log/Pole | 10 | 54 | Balsam Fir | Medium | | < 5 feet | Seeding |
| Red Maple | 15 | Pole/Log | 8 | | Red Maple | High | | 10 - 20 feet | Sapling |
| Bigtooth Aspen | 20 | Pole | 7 | | Red Oak | Low | | 10 - 20 feet | Sapling |
| | | | | | White Oak | Low | | 10 - 20 feet | Sapling |

| 23 | 6130 - Fir, Aspen, Maple | Poletimber Well | 43.6 | 37 | 51-80 | N/A | An almost even split between upland and lowland. Uplands are concentrated in the west and north. These are like slopes leading into a basin. Elsewhere uplands are knolls and ridges separated by lowland timber. Lowland potholes often contain dense lowland brush. There is an interesting tamarack inclusion in the west. It's a stand with a lot going on: land form and land position, species composition, horizontal diversity. | | |
|----------------|--------------------------|-----------------|------|-----|--------------------------|---------|---|--------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Tamarack | 8 | Sapling | 4 | | Serviceberry (Juneberry) | Low | | 10 - 20 feet | Sapling |
| White Pine | 10 | Pole/Sap/Log | 8 | | Hazelnut (Spp.) | Trace | | 5 - 10 feet | Tall Shrub |
| Red Pine | 5 | Log | 12 | | Tag Alder | Medium | | 5 - 10 feet | Tall Shrub |
| Paper Birch | 3 | Sapling | 4 | | | | | | |
| White Spruce | 2 | Pole/Sapling | 6 | | | | | | |
| Quaking Aspen | 30 | Pole/Sapling | 5 | 37 | | | | | |
| Jack Pine | 2 | Sapling/Pole | 4 | | | | | | |
| Red Maple | 5 | Sapling | 3 | | | | | | |
| Black Spruce | 5 | Pole/Sapling | 6 | | | | | | |
| Balsam Poplar | 5 | Sapling/Pole | 4 | | | | | | |
| American Elm | 2 | Pole/Sapling | 6 | | | | | | |
| Balsam Fir | 23 | Pole/Sapling | 5 | | | | | | |



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

24 3102 - Grass Nonstocked 1.9 Unspecified Managed Opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Spotted Knapweed | High | Unspecified | Non-Wood |
| Red Pine | Low | < 5 feet | Seeding |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Jack Pine | Low | < 5 feet | Seeding |

25 4131 - Aspen, Oak Sawtimber Poor 13.8 95 1-50 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|------------|-----|-----|
| Red Oak | 45 | Log/XLog | 14 | 95 |
| Red Pine | 8 | Pole/Log | 8 | |
| White Pine | 3 | Pole | 6 | |
| Quaking Aspen | 1 | Log/Pole | 10 | |
| Paper Birch | 1 | Log | 10 | |
| Red Maple | 2 | Pole | 8 | |
| Bigtooth Aspen | 40 | Log/Pole | 11 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| Red Maple | Low | 5 - 10 feet | Sapling |
| White Pine | Low | 5 - 10 feet | Sapling |
| Balsam Fir | Low | 5 - 10 feet | Sapling |
| Bigtooth Aspen | Medium | 5 - 10 feet | Sapling |

The stand examiner saw notes of some experimental treatment performed in this stand. Upon walking into it in early Feb, he saw an understory almost without a regen layer at the top of the ridge. Side slopes seemed to have a good amount of aspen and some red maple regeneration. Browse is very heavy at the ridge top: red maple is browsed to 2 feet where elsewhere it might be 5-10 feet. This look in the winter suggests the experiment didn't turn out as hoped. It may require another look in spring or summer.

26 3102 - Grass Nonstocked 10.6 Unspecified Managed Opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Mixes Sedges/Grasses | Medium | Unspecified | Non-Wood |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |

27 4130 - Aspen Sapling Well 12.4 22 Immature N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Choke Cherry | 2 | Sapling | 2 | |
| Red Pine | 2 | Sapling | 4 | |
| White Pine | 1 | Sapling | 4 | |
| Quaking Aspen | 10 | Sapling/Pole | 4 | |
| Bigtooth Aspen | 55 | Pole/Sapling | 5 | 22 |
| Jack Pine | 5 | Sapling | 3 | 19 |
| Red Maple | 10 | Sapling | 3 | |
| Red Oak | 15 | XLog | 20 | |

Aspen must've outcompeted jack pine in the parent stand in this area. In the stand examiner's opinion, these aspen-heavy areas should be managed with the aspen to the west as they're more or less probably from the same group of clones. Under oak canopy, the recruitment of oak seedlings is poor. Some of the mature oak have virtually none, while others may have nearly 50% oak seedlings. As a rule, these are browsed to about 1'. There are a few free to grow oak saplings but they tend to be rare.



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

28 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 11.6 107 81-110 N/A

A swale draining from the stand to the east broadens out and empties into an emergent marsh to the west. Going from relatively higher to lower elevations, balsam fir and white pine transition to black spruce, then red maple, white birch, balsam poplar and cedar with alder and fir occupying the wettest areas. Virtually the entire stand seemed too wet. The age of cedar is an estimate based on ages in nearby stands.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| White Spruce | 3 | Log/Pole | 10 | |
| White Pine | 5 | XLog | 20 | |
| Balsam Fir | 20 | Pole/Sapling | 5 | |
| Northern White Cedar | 25 | Log/Pole | 14 | 107 |
| Black Spruce | 17 | Pole | 8 | 67 |
| Paper Birch | 5 | Pole | 6 | |
| Red Maple | 20 | Sapling/Pole | 4 | 37 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Balsam Fir | Medium | 5 - 10 feet | Sapling |

29 6120 - Lowland Cedar Poletimber Well 7.8 120 141-170 N/A

On a drainage and side slope to Smith Creek marsh. Possible alignment of an ice road running SW-NE through the center of the stand. Pretty wet as evidenced by ice but most could be operable in frozen condition. However the stand lacks regeneration. The decedent roughly 100 year old aspen component is breaking up, typically releasing red maple and fir saplings and alder brush.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| Black Spruce | 10 | Pole | 8 | |
| Northern White Cedar | 60 | Pole/Log | 8 | 120 |
| Paper Birch | 5 | Pole | 7 | |
| White Spruce | 3 | Pole/Log | 9 | |
| Red Maple | 5 | Sapling | 3 | 30 |
| Quaking Aspen | 2 | Log/Pole | 13 | |
| Balsam Fir | 2 | Pole/Sapling | 5 | |
| Bigtooth Aspen | 3 | Log/Pole | 13 | |
| Tamarack | 10 | Pole/Log | 9 | 100 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Sphagnum Moss | High | 5 - 10 feet | Non-Wood |
| Leatherleaf | Low | < 5 feet | Tall Shrub |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Balsam Fir | Low | < 5 feet | Sapling |

30 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 29.3 19 Immature N/A

Under oak canopy, the recruitment of oak seedlings is poor. Some of the mature oak have virtually none, while others may have nearly 50% oak seedlings. As a rule, these are browsed to about 1'. There are a few free to grow oak saplings but they tend to be rare. There seems to have been red pine planted in the stand's north, perhaps extra seedlings from the plantation to the north. Even in areas where the red and jack pine are fairly dense, browse is evident. The best hope for an oak seedling is one that grows among the branches and needles of a red pine. Otherwise, this is a fairly nice stand of jack pine.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Choke Cherry | 1 | Sapling | 2 | |
| Red Pine | 1 | Sapling | 4 | |
| Bigtooth Aspen | 10 | Pole/Sapling | 5 | 22 |
| Red Maple | 6 | Sapling | 3 | |
| Red Oak | 20 | XLog | 20 | |
| Jack Pine | 60 | Sapling | 3 | 19 |



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

31 3102 - Grass Nonstocked 6.6 Unspecified Managed Opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Alder | Trace | 5 - 10 feet | Tall Shrub |
| Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Sedges | High | Unspecified | Non-Wood |
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| White Pine | Low | 10 - 20 feet | Sapling |
| Balsam Fir | Low | 10 - 20 feet | Sapling |
| Little Bluestem | Trace | Unspecified | Non-Wood |

32 4130 - Aspen Sapling Well 189.5 8 Immature N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|------------|-----|-----|
| Red Maple | 10 | Sapling | 1 | |
| White Pine | 1 | Sapling | 1 | |
| Balsam Fir | 1 | Sapling | 1 | |
| Jack Pine | 2 | Sapling | 1 | |
| Red Oak | 1 | Sapling | 1 | |
| Red Pine | 1 | Sapling | 1 | |
| Quaking Aspen | 25 | Sapling | 1 | |
| Bigtooth Aspen | 59 | Sapling | 1 | 8 |

"Subcanopy" if you will, has low amount of witch-hazel, a low amount of blackberries/raspberries/gooseberries and a moderate amount of sweetfern. The stand is growing well. Browse is heavy along old skid paths. Even within the skid paths, trees are making it above browse height. Even a few stump sprouted red oak are near or exceeding the browse height.

33 3302 - Low Density Conifer Trees Nonstocked 44.7 0 4211 - Planted Red Pine

Trenched on 1/25/16Planted on 2/26/16 at 963 RP/ac of MI0320 3-0 stockYear 1 regen survey on 5/30/17 at 566 RP/ac and 2,600 Competition/acThe first Planting failed. This is a total planting restart.5/3/2021 with 950 TPA.Total of 33000 trees plantedYear 1 regen survey on 10/20/21; 988 Surviving TPA ; 0.7' Ave. Height ; 93% FTG;

34 3104 - Degraded Nonstocked 1.1

Just your average mix of gas/oil well vegetation

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Quaking Aspen | Low | 10 - 20 feet | Sapling |
| Sweet Fern | High | < 5 feet | Tall Shrub |
| White Pine | Low | 10 - 20 feet | Sapling |
| Red Pine | Low | 10 - 20 feet | Sapling |
| Spotted Knapweed | High | 5 - 10 feet | Non-Wood |



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

35 42110 - Planted Red Pine Sawtimber Well 25.0 62 141-170 N/A

10 BA swings reveal 147 BA. A thinning would do the stand some good. Presently some intermediate stems could use selection. LCR looks good and healthy. Prep under leaf off condition or pay in frustration.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------------|---------|--------------|------------|
| Black Cherry | 2 | Pole | 5 | | Quaking Aspen | Low | 10 - 20 feet | Sapling |
| Bigtooth Aspen | 2 | Log/XLog | 16 | | Hazelnut (Spp.) | Low | 5 - 10 feet | Tall Shrub |
| Red Maple | 1 | Log | 13 | | Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub |
| Quaking Aspen | 3 | Log/Pole/XLog | 11 | | Beech | Low | 10 - 20 feet | Sapling |
| Red Oak | 2 | Log/XLog/Pole | 14 | | Red Oak | Low | 10 - 20 feet | Sapling |
| Red Pine | 90 | Log/Pole | 11 | 62 | Red Maple | High | 10 - 20 feet | Sapling |

36 3104 - Degraded Nonstocked 0.8 Average well pad mix

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Black Cherry | Low | 10 - 20 feet | Sapling |
| Red Pine | Low | 10 - 20 feet | Sapling |
| Big Bluestem | Trace | Unspecified | Non-Wood |
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Sweet Fern | High | < 5 feet | Tall Shrub |

37 623 - Emergent Wetland Nonstocked 20.3 No

A picturesque marsh filled with old cedar stumps and a creek winding through the middle. More brushy than the wetland stand to the east, formerly Sportsmen Lake. An old beaver dam separates the two.

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Cattail spp. | Medium | Unspecified | Non-Wood |
| White Pine | Low | 5 - 10 feet | Sapling |
| Tamarack | Low | 5 - 10 feet | Sapling |
| Goldenrod spp. | Low | Unspecified | Non-Wood |
| Black Spruce | Trace | < 5 feet | Seeding |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |
| Red Osier Dogwood | Trace | 5 - 10 feet | Tall Shrub |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Meadowsweet | Low | < 5 feet | Tall Shrub |
| Reed Canary Grass | Low | Unspecified | Non-Wood |
| Paper Birch | Trace | 10 - 20 feet | Sapling |



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

38 4130 - Aspen Poletimber Well 43.7 36 51-80 N/A A string of potholes and drainages that probably hydrologically connect the swamp to the east with Brush Creek to the west. Likely old ice roads and skid trails seemingly running E-W. Generally better quality in the north with a mix of oak and big tooth aspen. Side slopes and south trend toward quaking aspen and include wetland pockets.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|------------------|---------|--------------|-----|-----|--------------------|---------|-------------|------------|
| Paper Birch | 1 | Pole | 5 | | Willow spp. | Trace | 5 - 10 feet | Tall Shrub |
| Northern Pin Oak | 1 | Log | 12 | | Michigan Holly | Low | 5 - 10 feet | Tall Shrub |
| American Elm | 1 | Pole | 6 | | Alder | Low | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 30 | Pole/Sapling | 5 | 36 | | | | |
| White Pine | 1 | Pole | 8 | | | | | |
| Balsam Fir | 10 | Pole/Sapling | 5 | | | | | |
| Red Pine | 1 | Pole | 7 | | | | | |
| Black Cherry | 2 | Pole/Sapling | 5 | | | | | |
| Bigtooth Aspen | 40 | Pole/Sapling | 6 | 36 | | | | |
| Red Oak | 1 | Pole/Sapling | 6 | | | | | |
| Red Maple | 10 | Sapling/Pole | 4 | | | | | |
| Black Spruce | 2 | Pole | 6 | | | | | |

39 6122 - Black Spruce Poletimber Well 9.2 100 Unspecified N/A Parts of this stand are picture perfect examples of black spruce bogs

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------|---------|-------------|------------|
| Red Pine | 5 | XLog/Log | 18 | | Alder | Medium | 5 - 10 feet | Tall Shrub |
| Red Maple | 8 | Pole/Sap/Log | 8 | | Sphagnum Moss | Full | Unspecified | Non-Wood |
| Black Spruce | 65 | Pole | 7 | 100 | Leatherleaf | High | < 5 feet | Tall Shrub |
| White Spruce | 5 | Log | 14 | | Wintergreen | Medium | < 5 feet | Tall Shrub |
| Tamarack | 5 | Pole | 9 | | | | | |
| Red Oak | 2 | Pole | 6 | | | | | |
| White Pine | 10 | XLog/Log/Pole | 18 | | | | | |

40 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 33.9 83 81-110 N/A Some decent red oak regen in spots but it's not enough to hope for any steps toward conversion.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------------|---------|--------------|------------|
| Red Pine | 79 | Log | 14 | 83 | Red Oak | Low | < 5 feet | Seeding |
| Red Maple | 10 | Log/Pole/Sap | 10 | | Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub |
| Red Oak | 10 | XLog | 18 | | Choke Cherry | Low | 10 - 20 feet | Tall Shrub |
| Paper Birch | 1 | Log/Pole | 11 | | Balsam Fir | Low | 10 - 20 feet | Sapling |
| | | | | | Red Pine | Low | 5 - 10 feet | Sapling |
| | | | | | Red Maple | Medium | 10 - 20 feet | Sapling |
| | | | | | Jack Pine | Low | 5 - 10 feet | Sapling |
| | | | | | White Pine | Trace | 10 - 20 feet | Sapling |



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

| | | | | | | | |
|-----------|--------------------------|-----------------|------|----|--------|-----|---|
| 41 | 6130 - Fir, Aspen, Maple | Poletimber Well | 12.8 | 41 | 81-110 | N/A | Upland ridges and lowland swales. Kind of a half-and-half mix leaning more to lowland. A fair number of legacy and near-legacy pine throughout on the ridges. These ridges, however are narrow mainly and separated by very wet, mucky swales. An older cohort of aspen, probably about 100 years old, is currently breaking up, releasing red maple and balsam fir. As a consequence of decadent aspen and fir breaking up, there are areas with considerable coarse woody debris. |
|-----------|--------------------------|-----------------|------|----|--------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| Balsam Fir | 20 | Pole | 6 | 47 |
| Black Spruce | 2 | Pole | 8 | |
| White Pine | 5 | XLog/Log | 22 | |
| Northern White Cedar | 10 | Log/Pole | 14 | 120 |
| Red Oak | 1 | XLog | 20 | |
| Black Cherry | 2 | Pole/Sapling | 6 | |
| Paper Birch | 2 | Pole/Sapling | 6 | |
| Red Pine | 2 | XLog/Log | 18 | |
| Quaking Aspen | 30 | Pole/Log/Sap | 7 | 41 |
| American Elm | 1 | Pole | 6 | |
| Red Maple | 25 | Pole/Sap/Log | 6 | 40 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Balsam Fir | Medium | 5 - 10 feet | Sapling |
| Alder | Medium | 5 - 10 feet | Tall Shrub |

| | | | | | | |
|-----------|--------------|------------|-----|-------------|-----------------|--|
| 42 | 3102 - Grass | Nonstocked | 2.6 | Unspecified | Managed Opening | |
|-----------|--------------|------------|-----|-------------|-----------------|--|

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| White Pine | Trace | 5 - 10 feet | Tall Shrub |
| Spotted Knapweed | Low | Unspecified | Non-Wood |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Red Pine | Trace | < 5 feet | Seeding |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |
| Cherry (spp.) | Trace | 5 - 10 feet | Sapling |

| | | | | | | |
|-----------|--------------|------------|------|-------------|-----------------|--|
| 43 | 3102 - Grass | Nonstocked | 12.2 | Unspecified | Managed Opening | A few scenic openings overlooking Smith Creek marshes. |
|-----------|--------------|------------|------|-------------|-----------------|--|

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| White Pine | Low | Variable | Sapling |
| Red Oak | Trace | 5 - 10 feet | Sapling |
| Alder | Low | 5 - 10 feet | Tall Shrub |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | |
|-----------------|-----------------------------|-------------------|------------|-----------|-------------|-----------------|--|--------------------------|---------|--------------|------------|-----|
| 44 | 320 - Upland Shrub | Nonstocked | 30.6 | | | Managed Opening | More or less a cherry shrub savanna within a sweetfern and sedge (Pennsylvania?) mix. The eastern quarter has log sized red maple, scattered red oak saplings, red pine seedlings and a definite savanna feel. Signs of maintenance burns are abundant. Imagery shows a control line around the stand. Sedge looks like the kind that somehow burns while green in June. A couple old RR spurs trace their way through the stand. One of which is likely an old Detroit and Mackinaw spur. | | | | | |
| | | | | | | | | Sub-Canopy Species | Density | Avg. Height | Size | |
| | | | | | | | | Big Bluestem | Trace | Unspecified | Non-Wood | |
| | | | | | | | | Huckleberry | Trace | 5 - 10 feet | Tall Shrub | |
| | | | | | | | | Red Pine | Low | < 5 feet | Seeding | |
| | | | | | | | | Sweet Fern | Full | < 5 feet | Tall Shrub | |
| | | | | | | | | Red Oak | Trace | >20 feet | Log | |
| | | | | | | | | Serviceberry (Juneberry) | Low | >20 feet | Tall Shrub | |
| | | | | | | | | Red Maple | Medium | >20 feet | Log | |
| | | | | | | | | Sedges | High | Unspecified | Non-Wood | |
| | | | | | | | | Sand Cherry | High | 5 - 10 feet | Tall Shrub | |
| Little Bluestem | Low | Unspecified | Non-Wood | | | | | | | | | |
| 45 | 6123 - Lowland Fir | Poletimber Medium | 13.2 | 68 | 51-80 | N/A | A swamp stand with dense alder underlain by sphagnum moss. Black ash was a former component of the stand but has since died out. Possible headwaters of Brush Creek. | | | | | |
| | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age |
| | | | | | | | | Northern White Cedar | 5 | Pole | 8 | |
| | | | | | | | | Paper Birch | 18 | Pole/Log | 9 | |
| | | | | | | | | Red Maple | 10 | Pole/Log | 9 | |
| | | | | | | | | White Spruce | 5 | Pole/Log/Sap | 7 | |
| | | | | | | | | Willow spp. | 2 | Pole | 9 | |
| | | | | | | | | Balsam Fir | 60 | Pole/Sapling | 6 | 68 |
| | | | | | | | | Sub-Canopy Species | Density | Avg. Height | Size | |
| | | | | | | | | Alder | Full | 5 - 10 feet | Tall Shrub | |
| | | | | | | | | Sphagnum Moss | Full | < 5 feet | Non-Wood | |
| 46 | 623 - Emergent Wetland | Nonstocked | 14.0 | | Unspecified | No | The former basin of Sportsmen Lake, now an emergent marsh. Pocked with old cedar stumps. | | | | | |
| | | | | | | | | Sub-Canopy Species | Density | Avg. Height | Size | |
| | | | | | | | | Cattail spp. | Low | Unspecified | Non-Wood | |
| | | | | | | | | Mixes Sedges/Grasses | High | Unspecified | Non-Wood | |
| 47 | 6139 - Mixed Lowland Forest | Sapling Well | 13.7 | 36 | 51-80 | N/A | This stand follows a drainage catena. Red maple dominates the highest elevations, quaking aspen on the side slopes and both red maple and quaking aspen mixing together at the bottom. Generally too wet for reasonable management. | | | | | |
| | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age |
| | | | | | | | | Red Oak | 5 | Sapling | 4 | |
| | | | | | | | | Quaking Aspen | 35 | Pole/Sapling | 6 | 36 |
| | | | | | | | | Balsam Fir | 15 | Sapling/Pole | 4 | |
| | | | | | | | | Red Pine | 5 | Pole | 8 | |
| | | | | | | | | Red Maple | 35 | Pole/Sapling | 5 | 36 |
| | | | | | | | | White Pine | 5 | XLog | 24 | |
| | | | | | | | | Sub-Canopy Species | Density | Avg. Height | Size | |
| | | | | | | | | Balsam Fir | Low | < 5 feet | Seeding | |
| | | | | | | | | Sedges | Medium | Unspecified | Non-Wood | |
| Gray Dogwood | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------------------------|-----------------|------------|--|----------|--------------|--|--------------------|---------|-------------|------|---------------|--------------|----------|----------|------------|------|------------|------------|-----------|-----|----------|---------------|---------------|----------|----------|---------|----------------|-----|----------|---------|----|-----------|----|----------|----|----|--------------------|---------|--------------|------|---------|--------------------|--------------|--------------|-----------|-----------|--------------|----------|------------------------------|-------------|----------|------------|------------|---------------|----------|----------|------------|------------|-------------|----------|---------|--------------------|----------|-------------|---------------|---------|--------------|--------------|---------|---------------|-----|--------------|---------|------------|-----|-------------|------------|------------|--------|--------------|---------|------------|-----|----------|---------|
| 48 | 320 - Upland Shrub | Nonstocked | 6.9 | | | No | Looks like a natural opening, an old stump plain perhaps. It bares a resemblance with some of the shrubby semi open lands around the Black River. The stand examiner believes the opening will slowly close in over time. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherry (spp.) | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweet Fern | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 42290 - Natural Mixed Pine | Poletimber Well | 7.3 | 79 | 81-110 | N/A | One of those odd spots of a leatherleaf carpeted upland. The oldest jack pine are close to the same age as the red pine. Red pine showed very rapid growth for the first 40 years, about 2-4" diameter growth per decade. The last 40 years showed a considerable tightening of growth rings. Balsam fir, 41 at ground level, shows fast growth beginning about 30-35 years ago, probably showing a release. In the east, the jack pine canopy is breaking apart in this densest and oldest area where it is found. Understory white pine are apparently the future. They are about 50-60 years old. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Pole | 6 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 20 | Log/Pole | 11 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 40 | Pole/Log | 9 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 20 | Log/XLog | 16 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leatherleaf | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 4311 - Pine, Aspen Mix | Poletimber Well | 33.6 | 54 | 81-110 | N/A | A couple different ages of aspen. The stand age is the mean. It's possible that it was entered on several different occasions for species cuts. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 2 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 40 | Pole | 8 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 5 | Log/Pole | 13 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 2 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 1 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 15 | Pole/Sapling | 6 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 1 | Log/XLog | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 26 | Log/Pole/XLog | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 3 | Log/XLog | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nannyberry | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 42110 - Planted Red Pine | Sawtimber Well | 46.3 | 66 | 141-170 | N/A | A nice red pine plantation barely within the log product class. Another portion of the stand to the west along the woods road has not been previously managed with the rest of the stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 1 | XLog | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 1 | XLog | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 95 | Log/Pole | 10 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 1 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Medium | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Trace | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Trace | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherry (spp.) | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | |
|-----------|--|-----------------|--------------------|-------------|-------------|---------------------------|--|--------------------|-------------|
| 52 | 4130 - Aspen | Sapling Well | 21.9 | 16 | Immature | N/A | | | |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| | Red Maple | 5 | Sapling | 2 | | Serviceberry (Juneberry) | Trace | 10 - 20 feet | Tall Shrub |
| | Choke Cherry | 5 | Sapling | 2 | | Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| | Bigtooth Aspen | 75 | Sapling/Pole | 4 | 16 | | | | |
| | Balsam Fir | 5 | Sapling | 4 | | | | | |
| | White Pine | 5 | Sapling | 4 | | | | | |
| | Northern Pin Oak | 5 | Pole/Sapling | 5 | | | | | |
| 53 | 42290 - Natural Mixed Pine | Sawtimber Well | 21.5 | 70 | 111-140 | N/A | A few wet basins and swales but probably mostly operable. Legacy and near-legacy pine on higher spots, some 30-40". Portions are almost pure white pine. | | |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| | Paper Birch | 2 | Pole | 6 | | Michigan Holly | Low | 5 - 10 feet | Tall Shrub |
| | Northern White Cedar | 5 | Pole/Log | 9 | | Balsam Fir | High | 5 - 10 feet | Sapling |
| | White Spruce | 5 | Log/Pole | 10 | | Beech | Trace | 5 - 10 feet | Sapling |
| | Quaking Aspen | 8 | Log/Pole | 10 | | | | | |
| | Red Pine | 5 | Log/XLog | 15 | | | | | |
| | White Pine | 55 | Log/Pole/XLog | 15 | 70 | | | | |
| | Balsam Fir | 3 | Pole/Sapling | 6 | | | | | |
| | Bigtooth Aspen | 2 | Log/Pole | 11 | | | | | |
| | Red Maple | 10 | Pole/Log | 8 | | | | | |
| | Black Spruce | 5 | Pole | 7 | | | | | |
| 54 | 6224 - Treed Bog | Nonstocked | 16.3 | | Unspecified | No | Jack pine muskeg. It's possible that the jack pine originated from a prescribed burn. Scorch marks on most trees around the lowland. The control line seems to have been in common with roads and trails in many locations. Small jack pine throughout the lowland on sphagnum hummocks which might coincide with old stumps below. Many of the jack pine are bearing cones that aren't serotinous. The jack pine seed source is nearly continuous across the lowland. Jack pine heights and densities increase toward the outer margins of the lowland. Between the spirea is ice/water. An upland portion of the stand's east supports an at least moderately stocked jack pine inclusion of about the same age. | | |
| | Sub-Canopy Species | Density | Avg. Height | Size | | | | | |
| | Sphagnum Moss | Full | Unspecified | Non-Wood | | | | | |
| | Jack Pine | Medium | 5 - 10 feet | Sapling | | | | | |
| | Spiraea spp. | Full | < 5 feet | Tall Shrub | | | | | |
| | Mixes Sedges/Grasses | Low | Unspecified | Non-Wood | | | | | |
| | White Pine | Low | 5 - 10 feet | Sapling | | | | | |
| 55 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 51.0 | 139 | 111-140 | N/A | Areas of dense cedar in good form and health, especially around the perimeter. Black ash was formerly an associate in this stand which has died out. A few smaller blow down pockets noted. Black spruce tends to dominate in the wettest areas, especially the north-center. In the southeast, between portions of stand 21, cedar and black spruce mixes with tamarack. A corduroy led from stand 21 and stand 38, likely used in the last entry of stand 21. This corduroy crossed a stream which flows in the center. In the north there is another stream. | | |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| | Tamarack | 5 | Pole | 7 | | Leatherleaf | High | < 5 feet | Tall Shrub |
| | White Pine | 3 | XLog | 24 | | Balsam Fir | Medium | < 5 feet | Seeding |
| | Red Maple | 3 | Pole | 6 | | Sphagnum Moss | Full | Unspecified | Non-Wood |
| | Balsam Poplar | 3 | Pole | 6 | | Black Spruce | Low | < 5 feet | Seeding |
| | Balsam Fir | 10 | Pole/Sapling | 5 | | Alder | Low | 5 - 10 feet | Tall Shrub |
| | Black Spruce | 30 | Pole | 6 | 95 | | | | |
| | Northern White Cedar | 44 | Pole/Log | 8 | 139 | | | | |
| | Paper Birch | 2 | Pole/Sap/Log | 8 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | |
|-----------------------|--|-------------------|-------------------|------------|------------|------------------------------|--|--------------------|-------------|
| 56 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 15.1 | 47 | 51-80 | N/A | A very poor aspen stand. Aspen are widely spaced, short and often already showing conk for their age. It seems the ground would grow better pine than aspen. | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| Quaking Aspen | | 55 | Pole | 7 | 47 | White Pine | Low | Variable | Sapling |
| White Pine | | 20 | Log/Pole | 11 | 47 | Northern Pin Oak | Low | 10 - 20 feet | Sapling |
| Jack Pine | | 10 | Pole | 7 | | Serviceberry (Juneberry) | High | 10 - 20 feet | Tall Shrub |
| Northern Pin Oak | | 5 | Log | 14 | | Blueberry/Bilberry/Cranberry | High | 10 - 20 feet | Tall Shrub |
| Balsam Fir | | 10 | Pole | 7 | | | | | |
| 57 | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Medium | 20.8 | 89 | 81-110 | N/A | Looks like a swamp hardwood stand marching toward decadence. The aspen are beastly large and probably hollow. Red maple seems to do fairly well. Pit and mound topography probably owing to the water table close to the surface. Many areas of standing water, lowland brush potholes. There are a few narrow ridges and small knolls but getting to these is like a treasure hunt. | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| Red Oak | | 2 | Log/XLog | 15 | | Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub |
| Quaking Aspen | | 15 | Log/XLog | 15 | 89 | Beech | Low | 10 - 20 feet | Sapling |
| Balsam Fir | | 18 | Pole | 6 | | Hazelnut (Spp.) | Low | 5 - 10 feet | Tall Shrub |
| Paper Birch | | 5 | Log | 12 | | Balsam Fir | Medium | 10 - 20 feet | Sapling |
| Balsam Poplar | | 5 | Pole | 6 | | Alder | Medium | 5 - 10 feet | Tall Shrub |
| Black Spruce | | 10 | Pole/Log | 8 | | | | | |
| White Spruce | | 5 | Log/Pole | 12 | | | | | |
| 58 | 4123 - Red Oak | Sawtimber Well | 8.2 | 92 | 81-110 | N/A | This stand is probably the result of the species cut that initiated the surrounding aspen stand. Oak was probably the leave species. Red pine rings show about 120 years on the site. The first 60 or so years showed rapid growth. The last 50 or so years show growth slowing considerably, occupying about 50% less radial space as the first 60. There are several larger oak that probably originated with the red pine. An educated guess suggests the cutover followed by slash fire 120 years ago. Other fires about 90 years ago, starting most of the present oak. A species thinning 50 years ago, corresponding to pole size trees in the stand. | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| Red Pine | | 5 | Log | 12 | | Witch Hazel | Medium | 5 - 10 feet | Tall Shrub |
| Paper Birch | | 1 | Pole | 7 | | White Pine | Medium | 10 - 20 feet | Sapling |
| Red Oak | | 69 | Log/XLog/Pole | 13 | 92 | | | | |
| White Pine | | 5 | Log | 13 | | | | | |
| White Ash | | 2 | Pole/Sapling | 5 | | | | | |
| Red Maple | | 18 | Pole | 7 | 120 | | | | |
| 59 | 42290 - Natural Mixed Pine | Sawtimber Well | 15.8 | 102 | 111-140 | N/A | This stand is probably what was deemed unharvestable 40 odd years ago with the current upland mixed and aspen stands to the west were cut. This stand is often wet as well as being close to marshes and muskeg. Scorched bark at the base of trees is common as are the signs of a control line around much of the stand. There was a prescribed fire in this area. Perhaps this stand was part of it. If the goal included encouraging natural regeneration, it may have partially succeeded. Some places in the stand show recent white pine seedlings at a low to moderate stocking all about 1' or less. However, these areas may not be widespread. If this is considered interesting, the stand should have another survey for pine regeneration before green up. | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
| Red Maple | | 5 | Pole | 5 | | White Pine | Low | 10 - 20 feet | Sapling |
| Balsam Fir | | 2 | Pole | 7 | | Leatherleaf | Full | < 5 feet | Tall Shrub |
| White Spruce | | 3 | Log | 11 | | White Spruce | Low | < 5 feet | Sapling |
| White Pine | | 30 | XLog | 18 | | Red Maple | Low | 10 - 20 feet | Sapling |
| Red Pine | | 45 | Log | 14 | 102 | | | | |
| Quaking Aspen | | 5 | Pole | 6 | | | | | |
| Jack Pine | | 10 | Pole/Log | 9 | | | | | |



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

| 60 | 4136 - Aspen, Mixed Conifer | Sawtimber Well | 62.4 | 59 | 111-140 | N/A | The northwest quarter of the stand seems the poorest in terms of timber and site capability. The northwest also contains a couple small drainages. Generally heavy browse to red maple: if it's not below 3 feet, it's 10-20 feet tall at least. The far east contains a few legacy trees including one white pine at 39". | | | | |
|----------------|-----------------------------|----------------|---------------|-----|---------|--------------------------|--|---------|-------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Red Pine | | 2 | XLog/Log | 20 | | Red Oak | | Trace | 5 - 10 feet | Sapling | |
| White Pine | | 4 | Log/XLog/Pole | 14 | | Serviceberry (Juneberry) | | Low | 5 - 10 feet | Tall Shrub | |
| White Spruce | | 1 | Pole | 9 | | Hazelnut (Spp.) | | Medium | 5 - 10 feet | Tall Shrub | |
| Red Maple | | 15 | Log/Pole | 10 | | Balsam Fir | | Medium | 5 - 10 feet | Sapling | |
| Red Oak | | 3 | XLog/Log | 22 | | White Pine | | Low | < 5 feet | Sapling | |
| Quaking Aspen | | 40 | Pole/Log | 9 | 59 | Red Maple | | High | Variable | Sapling | |
| Balsam Fir | | 15 | Pole | 6 | | | | | | | |
| Bigtooth Aspen | | 20 | Log | 10 | 59 | | | | | | |

| 62 | 6124 - Lowland Spruce-Fir | Poletimber Well | 7.1 | 87 | 81-110 | N/A | Black ash was a former stand associate. The stand seems to get poorer toward the west where balsam fir and cedar over alder dominates while in the southwest the stand starts to trend toward swamp hardwoods where the stand enters a drainage that empties through the aspen stand to the south. The southeast contains unusually large white spruce. | | | | |
|----------------------|---------------------------|-----------------|---------------|-----|--------|--------------------|---|---------|--------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Northern White Cedar | | 15 | Log | 12 | | Alder | | High | 5 - 10 feet | Tall Shrub | |
| Paper Birch | | 6 | Pole | 7 | | Sphagnum Moss | | Full | 10 - 20 feet | Non-Wood | |
| Balsam Poplar | | 6 | Pole | 8 | | | | | | | |
| Quaking Aspen | | 10 | Pole/Log | 9 | | | | | | | |
| Red Maple | | 8 | Pole/Log | 8 | | | | | | | |
| White Spruce | | 9 | Log/Pole/XLog | 14 | | | | | | | |
| Black Spruce | | 15 | Pole | 8 | 87 | | | | | | |
| Balsam Fir | | 30 | Pole | 6 | 87 | | | | | | |
| American Elm | | 1 | Pole | 7 | | | | | | | |

| | | | | | | | |
|-----------|----------------------------------|------------|------|---|--|--------------------------|---|
| 63 | 3302 - Low Density Conifer Trees | Nonstocked | 35.5 | 0 | | 42110 - Planted Red Pine | Trenched on 1/25/16 Planted on 2/26/16 at 963 RP/ac of MI0320 3-0 stock Year 1 regen survey on 5/30/17 at 566 RP/ac and 2,600 Competition/ac The first planting failed. This is a total planting restart. Planted 5/3/2021 PRT Seedlot MI0357 966 TPA total of 48600 trees Year 1 regen survey on 10/20/21; 988 Surviving TPA ; 0.7' Ave. Height ; 93% FTG; |
|-----------|----------------------------------|------------|------|---|--|--------------------------|---|

| 64 | 3104 - Degraded | Nonstocked | 1.4 | | Unspecified | | |
|--------------------|-----------------|------------|-------------|------------|-------------|--|--|
| Sub-Canopy Species | | Density | Avg. Height | Size | | | |
| Sweet Fern | | Medium | < 5 feet | Tall Shrub | | | |
| Mixed Grasses | | High | Unspecified | Non-Wood | | | |
| Spotted Knapweed | | Medium | Unspecified | Non-Wood | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|------------|-------------|-------------|--------------|--|---------------|----------|--------------|-------------|-----|----------------|------------|--------------|-------|--------------|---------------|----|----------|----|----|---|----|--------------------|---------|-------------|------------|---------|--------------|--------------|---------|--|-----|--------------------|---------|-------------|-------------|------------------------------|---------|-------------|------------|------------|--------|----------|------------|------------|-----------|----------|----------|-------------|-----|--|------------|--------------------|---------|-------------|------|------------|------|----------|---------|------------|-----|----------|---------|----------------|-----|-------------|------------|-----------|-----|----------|------------|
| 65 | 4311 - Pine, Aspen Mix | Poletimber Medium | 12.6 | 33 | 1-50 | N/A | Compared to the stand to the west, which apparently had the same origin, this one feels like a desolate savanna growing on depauperate soil. Jack pine tend to be widely space and have open grown form. Like the stand to the west, the aspen is generally of poor quality. There is a clone in the north along the trail that predates the current stand. In between widely spaced clumps and individual trees are openings, usually with a sedge and sweet fern ground cover. It could be that the competition of these two plants hindered the seeded jack pine from fully occupying the site. This stand is popular with the local wildlife with many trails evident. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 20 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 20 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 40 | Pole/Sapling | 6 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sedges | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweet Fern | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | 6229 - Mixed lowland shrub | Nonstocked | 2.0 | | Unspecified | No | A scenic muskeg surrounded by lowland pine. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leatherleaf | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meadowsweet | Low | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Poor | 24.2 | 100 | 1-50 | N/A | The decadent former overstory of quaking aspen has largely blown apart leaving red maple and a few red oak on the knolls punctuating the former balsam fir understory. The stand's margins may be operable but there is a drainage toward the center that is definitely too wet. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 5 | Log | 14 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 8 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 20 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 1 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 8 | XLog/Log | 20 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 7 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 3 | XLog/Log | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 25 | Log/Pole | 11 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Michigan Holly | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | 42120 - Planted Jack Pine | Poletimber Well | 23.9 | 33 | 1-50 | N/A | Aspen tends to be on the poorer side in this stand. This portion of the 1988 planted/seeded area took hold much better. It's a really nice young jack pine stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 78 | Pole | 6 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 5 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweet Fern | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leatherleaf | Low | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | 42121 - Planted Jack Pine, Mixed Deciduous | Sapling Well | 44.4 | 26 | Immature | N/A | Under the oak (super) canopy trees there was no appreciable oak regen. When there was, it was generally browsed. Red maple was common under oak and typically also browsed. A number of good oak saplings are scattered throughout the plantation in the east quarter however. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 80 | Sapling | 3 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 5 | XLog | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

70 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 5.1 40 81-110 N/A

A rare patch that shows considerable uniformity. North of this stand, there's a red maple transitional ribbon between the upland and the cedar. In this location that ribbon widens into more or less it's own thing. The origin was a species cut about 40 years ago based on tree cores. Species cut were probably aspen, birch and red maple. Pine and oak were probably left.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|-----|-----|--------------------|---------|-------------|----------|
| Red Maple | 35 | Pole/Sap/Log | 6 | 40 | Sphagnum Moss | High | 5 - 10 feet | Non-Wood |
| Paper Birch | 10 | Sapling | 4 | | | | | |
| Balsam Fir | 25 | Pole/Sapling | 6 | | | | | |
| White Spruce | 5 | Log | 11 | 107 | | | | |
| Northern White Cedar | 2 | XLog | 18 | | | | | |

71 3102 - Grass Nonstocked 1.1 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Sweet Fern | Low | < 5 feet | Tall Shrub |
| Sedges | High | Unspecified | Non-Wood |

72 6127 - Lowland Pine Sawtimber Well 9.7 99 141-170 N/A

Besides being wet, this is an unusual stand for the compartment.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|---------------|-----|-----|--------------------------|---------|--------------|------------|
| Quaking Aspen | 2 | Pole | 7 | | Black Spruce | Medium | 5 - 10 feet | Sapling |
| Red Maple | 5 | Pole/Log | 8 | | Sphagnum Moss | Low | < 5 feet | Non-Wood |
| Balsam Fir | 5 | Pole/Sapling | 5 | | Gray Dogwood | Medium | 5 - 10 feet | Tall Shrub |
| Northern White Cedar | 1 | Log/XLog | 16 | | Serviceberry (Juneberry) | Trace | 10 - 20 feet | Tall Shrub |
| Black Spruce | 15 | Pole | 7 | | | | | |
| White Pine | 45 | Log/Pole/XLog | 14 | 99 | | | | |
| White Spruce | 2 | Log/XLog | 14 | | | | | |
| Red Pine | 15 | XLog/Log | 18 | | | | | |
| Jack Pine | 10 | Pole | 8 | | | | | |

73 623 - Emergent Wetland Nonstocked 10.3 Unspecified No

Lowland brush fringe opens into an emergent marsh. Blue survey marker is visible near the center of the marsh.

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Jack Pine | Trace | 10 - 20 feet | Sapling |
| Balsam Fir | Trace | < 5 feet | Seeding |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Paper Birch | Trace | 10 - 20 feet | Sapling |
| Reed Canary Grass | High | Unspecified | Non-Wood |
| Tamarack | Trace | < 5 feet | Seeding |
| Meadowsweet | Trace | < 5 feet | Tall Shrub |
| Cattail spp. | Low | Unspecified | Non-Wood |



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

| 74 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 28.1 | 27 | 1-50 | N/A | This stand should be a pole stand in the next inventory cycle. Beaver damage along the marsh 100' into the stand. Site seems poorest at the center west. A surprising amount of blackberries and raspberries remain in the stand. A surprisingly large clone of upland balsam poplar as well. | | | | |
|--------------------------|-------------------------------|--------------|--------------|-----|------|----------------------|---|---------|-------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Red Pine | | 1 | XLog | 22 | | Hazelnut (Spp.) | | Medium | 5 - 10 feet | Tall Shrub | |
| Quaking Aspen | | 30 | Sapling/Pole | 4 | 27 | Alder | | Low | 5 - 10 feet | Tall Shrub | |
| White Spruce | | 1 | Log | 12 | | Blackberry/Raspberry | | Medium | 5 - 10 feet | Tall Shrub | |
| Balsam Fir | | 8 | Sapling/Pole | 4 | | Hawthorn (spp.) | | Low | 5 - 10 feet | Tall Shrub | |
| Balsam Poplar | | 15 | Pole/Sapling | 6 | 27 | | | | | | |
| Black Cherry | | 5 | Sapling | 2 | | | | | | | |
| Red Oak | | 15 | XLog/Log | 20 | | | | | | | |
| White Pine | | 1 | Pole/Sapling | 6 | | | | | | | |
| Bigtooth Aspen | | 15 | Pole/Sapling | 5 | 27 | | | | | | |
| Serviceberry (Juneberry) | | 1 | Pole/Sapling | 7 | | | | | | | |
| Northern Pin Oak | | 2 | Log/XLog | 16 | | | | | | | |
| Red Maple | | 5 | Sapling | 3 | | | | | | | |
| White Oak | | 1 | Log/XLog | 14 | | | | | | | |

| 75 | 6122 - Black Spruce | Poletimber Well | 10.5 | 48 | 51-80 | N/A | Evidence of recent wildfire. Saturated soils. | | | |
|----------------|---------------------|-----------------|--------------|-----|-------|--------------------|---|---------|-------------|------------|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| White Pine | | 5 | Pole | 8 | | Black Spruce | | Low | < 5 feet | Sapling |
| Tamarack | | 5 | Pole/Sapling | 6 | | Leatherleaf | | High | < 5 feet | Tall Shrub |
| Black Spruce | | 90 | Pole | 6 | 48 | | | | | |

| 76 | 6239 - Mixed Emergent Wetland | Nonstocked | 1.5 | | Unspecified | No | |
|--------------------------|-------------------------------|------------|--------------|------------|-------------|----|--|
| Sub-Canopy Species | | Density | Avg. Height | Size | | | |
| Jack Pine | | Trace | 5 - 10 feet | Sapling | | | |
| Sphagnum Moss | | Full | Unspecified | Non-Wood | | | |
| Leatherleaf | | Full | < 5 feet | Tall Shrub | | | |
| White Pine | | Trace | 10 - 20 feet | Sapling | | | |
| Serviceberry (Juneberry) | | Low | 10 - 20 feet | Tall Shrub | | | |



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

| 77 | 42110 - Planted Red Pine | Sawtimber Well | 12.8 | 73 | 81-110 | N/A | 6 BA swings show 93 BA. Jack Pine was a former associate. It looks like it was species cut in the northern portion but not south of the powerline. This species is dying out. Red pine frequently reach very large diameter: 22" and above DBH. Merchantable heights look like 6-8 sticks. Gaps in the stand appear to be areas of species removal. Stumps looked like jack pine and aspen. | | |
|----------------|--------------------------|----------------|------|-----|--------------------|---------|---|-------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| White Pine | 5 | Log/Pole/Sap | 16 | | Red Pine | Trace | | < 5 feet | Seeding |
| White Spruce | 1 | Pole | 8 | | Red Maple | High | | >20 feet | Sapling |
| Red Pine | 79 | Log/XLog | 17 | 73 | Hazelnut (Spp.) | Low | | 5 - 10 feet | Tall Shrub |
| Balsam Poplar | 2 | Pole/Sapling | 8 | | Beech | Low | | >20 feet | Sapling |
| Jack Pine | 2 | Log | 10 | | Witch Hazel | Low | | 5 - 10 feet | Tall Shrub |
| Bigtooth Aspen | 1 | Log/Pole | 14 | | Red Oak | Low | | >20 feet | Sapling |
| Paper Birch | 1 | Pole | 7 | | White Pine | Low | | 5 - 10 feet | Sapling |
| Red Maple | 2 | Pole/Sapling | 5 | | Balsam Fir | Trace | | Variable | Sapling |
| Black Cherry | 1 | Pole | 8 | | Jack Pine | Trace | | 5 - 10 feet | Sapling |
| Red Oak | 4 | Pole/Log/Sap | 8 | | Sweet Fern | Low | | < 5 feet | Tall Shrub |
| Quaking Aspen | 2 | Log/Pole | 10 | | | | | | |

| 78 | 6130 - Fir, Aspen, Maple | Poletimber Well | 72.1 | 83 | 51-80 | N/A | Black ash was a former stand associate. From the edges, the stand rapidly tapers into a dense alder basin. Some higher spots trend toward swamp hardwoods. Stream at center A second balsam fir cohort seems to have initiated around 40 years ago. | | |
|----------------------|--------------------------|-----------------|------|-----|----------------------|---------|---|-------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Northern White Cedar | 6 | Log/Pole | 14 | | Alder | High | | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 8 | Pole/Log | 9 | | Sedges | Full | | Unspecified | Non-Wood |
| Red Maple | 25 | Pole/Log | 9 | | Balsam Fir | Medium | | >20 feet | Sapling |
| Paper Birch | 8 | Pole/Log | 8 | | Cattail spp. | Low | | < 5 feet | Non-Wood |
| White Pine | 1 | Log | 12 | | Mixes Sedges/Grasses | Low | | Unspecified | Non-Wood |
| Balsam Poplar | 5 | Pole | 6 | | | | | | |
| Tamarack | 5 | Pole | 8 | | | | | | |
| Balsam Fir | 37 | Pole/Sap/Log | 7 | 83 | | | | | |
| Red Pine | 1 | XLog | 26 | | | | | | |
| White Spruce | 4 | Log/Pole | 14 | | | | | | |

| 79 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 109.9 | 79 | 51-80 | N/A | Seems to become increasingly wet and poor toward the west. Likely stream in the west. Very dense alder in the center and west punctuated with some stagnant looking cedar, tamarack and fir, if I recall. North end holds some decent cedar, nice and dense but lacks regen. | | |
|----------------------|--|-----------------|-------|-----|--------------------|---------|--|-------------|------------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Red Maple | 5 | Pole | 8 | | Tamarack | Medium | | < 5 feet | Sapling |
| Paper Birch | 10 | Pole/Sapling | 6 | | Tag Alder | Full | | 5 - 10 feet | Tall Shrub |
| Balsam Fir | 10 | Pole/Sapling | 5 | | Balsam Fir | Medium | | < 5 feet | Sapling |
| Black Spruce | 15 | Pole/Sapling | 6 | | | | | | |
| Northern White Cedar | 40 | Pole/Sapling | 6 | 79 | | | | | |
| Tamarack | 15 | Pole/Sapling | 6 | | | | | | |
| White Pine | 5 | Log | 14 | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------|------------|-------------|-------------|--------------|--|-----------|------------|------------------|-----|-------------|------------------|----------------------|---------|-------------|----------|------------|----|---------|----|----|----------------|----|----------|----|---|----------------|----|---------|----|---|--|---|--------------------|---------|-------------|---------------|------------------|---------|----------|------------|-----------|--------|-------------|----------|
| 80 | 4133 - Aspen, Mixed Pine | Sapling Poor | 15.4 | 3 | Immature | N/A | About half the stand is currently at or above 3 feet in height. Aspen gets a bit higher in dense patches. The best recruitment is of aspen in the north-center and south. The northern perimeter tends to remain under 3 feet largely due to browse. Here, red maple might be the dominant tree species if it weren't browsed hard. The species that stands out in the perimeter is jack pine which pushes most of this area barely into the stocked category. Surprisingly there are a number of small red pine seedlings as well. Besides areas of severe browsing, poor regeneration tended to coincide with sod (sedges) and sweet fern. Oak is browsed out of existence in this stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Choke Cherry</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>3</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Jack Pine | 15 | Sapling | 1 | | Choke Cherry | 10 | Sapling | 1 | | Red Pine | 5 | Sapling | 1 | | Red Maple | 30 | Sapling | 1 | | Quaking Aspen | 40 | Sapling | 1 | 3 | <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>Sweet Fern</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sedges</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Sweet Fern | Medium | < 5 feet | Tall Shrub | Sedges | Medium | Unspecified | Non-Wood |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 15 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 30 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 40 | Sapling | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweet Fern | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sedges | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | 3102 - Grass | Nonstocked | 1.2 | | Unspecified | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | 42111 - Planted Red Pine, Mixed Deciduous | Sawtimber Well | 22.6 | 82 | 81-110 | N/A | It seems this stand might've been planted in alternating jack pine and red pine strips. The jack pine are largely dying out of the canopy. Considerable number of elk scrapes in the center of the stand. In terms of the regen layer, there are more red maple but there are also locations with a good amount of oak seedlings. Additionally there are a few well established oak saplings, however their height versus their diameter would probably be a liability in a clear cut. Site and stand quality seem to change abruptly about 2/3 the way south. Red pine heights in the north tend to be shorter while red pine in the south 1/3 are a little taller and the pine canopy is more or less solid. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>8</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>8</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>62</td> <td>Log</td> <td>14</td> <td>82</td> </tr> <tr> <td>Jack Pine</td> <td>17</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log</td> <td>13</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Maple | 8 | Log/Pole | 10 | | Northern Pin Oak | 8 | Log | 13 | | Red Pine | 62 | Log | 14 | 82 | Jack Pine | 17 | Log/Pole | 10 | | Bigtooth Aspen | 5 | Log | 13 | | <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>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Northern Pin Oak | Medium | Variable | Sapling | Red Maple | Medium | Variable | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 8 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 8 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 62 | Log | 14 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 17 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 5 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | 500 - Water | Nonstocked | 2.3 | | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 110 - Low Intensity Urban | Nonstocked | 33.3 | | Unspecified | No | Powerline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sweet Fern | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spotted Knapweed | Low | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixes Sedges/Grasses | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 3102 - Grass | Nonstocked | 1.5 | | Unspecified | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86 | 4130 - Aspen | Sapling Well | 39.4 | 7 | Immature | N/A | Recent cut. Looks about the same age as the young aspen to the east. Otherwise growing in very well. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 15 | Sapling | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 50 | Sapling | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

87 4134 - Aspen, Spruce/Fir Sapling Well 17.5 27 1-50 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Black Cherry | 3 | Sapling/Pole | 4 | |
| Quaking Aspen | 35 | Sapling/Pole | 4 | 27 |
| Bigtooth Aspen | 15 | Sapling/Pole | 4 | 27 |
| Red Pine | 8 | Log/Pole | 14 | |
| Red Oak | 3 | XLog | 18 | |
| White Oak | 2 | Pole/Sapling | 6 | |
| Balsam Fir | 20 | Sapling/Pole | 4 | |
| White Spruce | 1 | Pole | 8 | |
| White Pine | 3 | Pole/Log | 9 | |
| Red Oak | 2 | Sapling | 2 | |
| Jack Pine | 3 | Sapling/Pole | 3 | |
| Red Maple | 3 | Sapling | 3 | |
| Paper Birch | 2 | Sapling | 2 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Witch Hazel | Low | 5 - 10 feet | Tall Shrub |

A diverse stand in terms of species composition and canopy structure. There are a couple of openings with well-worn wildlife trails. Jack pine is concentrated near where the landing likely was. A grove of black cherry is just north of that. The previous sale must have been "leave all oak and conifer". This stand is almost a pole stand and will be in the next inventory cycle.

88 3104 - Degraded Nonstocked 1.1 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Sweet Fern | High | < 5 feet | Tall Shrub |
| Cherry (spp.) | Trace | 5 - 10 feet | Sapling |
| Jack Pine | Trace | < 5 feet | Seeding |
| Sedges | High | Unspecified | Non-Wood |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |

89 42141 - Planted Mixed Pine, Mixed Deciduous Poletimber Well 35.4 34 51-80 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|--------------|-----|-----|
| Choke Cherry | 5 | Pole/Sapling | 5 | |
| Northern Pin Oak | 5 | Log/XLog | 16 | |
| White Pine | 5 | Pole/Log/Sap | 7 | |
| Quaking Aspen | 20 | Sapling | 3 | |
| Red Pine | 5 | Pole/Log/Sap | 9 | |
| Jack Pine | 53 | Sapling/Pole | 4 | 34 |
| Balsam Fir | 2 | Sapling | 2 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------------|---------|-------------|------------|
| Leatherleaf | Low | < 5 feet | Tall Shrub |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub |
| Wintergreen | Medium | < 5 feet | Tall Shrub |

Several ages mixed together. There are some larger pole jack pine that probably relate to the previous inventory's stand age of 58. There are probably more of the roughly 30-odd year old jack pine, thus the current stand age. There are also some young jack pine whips located near pipeline right of way probably from more recent disturbance. A varied stand on the basis of species composition and vertical structure which probably would increase it's importance for wildlife. Some areas almost have a grown-in savanna like feel with a greater mix of species and others are more or less closed canopy jack pine. The stand examiner believes the 30 year old cohort to have been seeded with the stands to the northwest (current stands 68 and 65) based on records.



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

90 3102 - Grass Nonstocked 0.9 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Jack Pine | Trace | 5 - 10 feet | Sapling |
| Sweet Fern | Low | < 5 feet | Tall Shrub |
| White Pine | Low | 5 - 10 feet | Sapling |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Bigtooth Aspen | Low | 5 - 10 feet | Sapling |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |
| Quaking Aspen | Low | 5 - 10 feet | Sapling |

91 6239 - Mixed Emergent Wetland Nonstocked 1.0 Unspecified No

Sphagnum moss seems to undergird this outwash pothole rimmed with leatherleaf. On the fringes, jack pine grow amongst the leatherleaf.

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Jack Pine | Trace | 5 - 10 feet | Sapling |
| Sphagnum Moss | High | Unspecified | Non-Wood |
| Leatherleaf | Medium | < 5 feet | Tall Shrub |
| Sedges | High | Unspecified | Non-Wood |

92 4139 - Aspen, Mixed Deciduous Poletimber Well 82.0 49 111-140 N/A

Oak tend to situate themselves on ridge tops and slopes.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| White Pine | 2 | Log | 13 | |
| Red Pine | 3 | Log | 12 | |
| White Oak | 2 | Log/XLog | 16 | |
| Balsam Fir | 13 | Pole/Sapling | 6 | |
| Bigtooth Aspen | 40 | Pole/Sap/Log | 8 | 49 |
| Red Maple | 10 | Pole | 6 | |
| Red Oak | 15 | XLog/Log | 18 | |
| Quaking Aspen | 15 | Pole/Log | 8 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| White Pine | Low | 10 - 20 feet | Sapling |

93 4199 - Other Mixed Upland Deciduous Sawtimber Well 7.8 102 81-110 N/A

Split out an oak heavy portion of the previous stand. Between oak are some miserable red maple stump sprouts. The area was probably species cut last. Oak have decent crowns but are already on the decline as a good number exhibit butt rot. It appears that the bottoms of Folgers containers have been screwed to many oak trees. Possibly feeders.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|------------|-----|-----|
| Bigtooth Aspen | 10 | Log/Pole | 12 | 53 |
| Red Pine | 4 | Log | 14 | |
| Quaking Aspen | 10 | Log/Pole | 12 | |
| White Pine | 5 | Pole | 8 | |
| White Pine | 10 | XLog | 24 | 102 |
| Balsam Fir | 3 | Pole | 7 | |
| Red Maple | 15 | Pole | 7 | |
| Paper Birch | 2 | Log/Pole | 10 | |
| Red Oak | 40 | XLog/Log | 22 | 102 |
| Black Cherry | 1 | Pole | 7 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|-------------|------------|
| Witch Hazel | Trace | 5 - 10 feet | Tall Shrub |
| Serviceberry (Juneberry) | Trace | 5 - 10 feet | Tall Shrub |
| Red Maple | Low | Variable | Sapling |
| White Pine | Low | Variable | Sapling |
| Balsam Fir | Medium | Variable | Sapling |



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

| 95 | 6130 - Fir, Aspen, Maple | Sapling Poor | 18.7 | 3 | Immature | N/A | Quaking aspen is making a good showing on upland portions of the stand. Typically this does not coincide with the area with a scattered supercanopy of white pine. That area trends more toward a mix of conifers and maybe some red maple. As a rule, the stand margins show heavier browse with red maple being especially hard hit. | |
|----------------|--------------------------|--------------|------------|-----|----------|-----|--|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Balsam Fir | | 30 | Sapling | 1 | | | | |
| Quaking Aspen | | 35 | Sapling | 1 | 3 | | | |
| White Pine | | 15 | Sapling | 1 | | | | |
| Jack Pine | | 5 | Sapling | 1 | | | | |
| Black Spruce | | 3 | Sapling | 1 | | | | |
| Red Maple | | 10 | Sapling | 1 | | | | |
| White Spruce | | 2 | Sapling | 1 | | | | |

| 96 | 42210 - Natural Red Pine | Sawtimber Well | 3.8 | 115 | 201+ | N/A | Extremely dense natural pine stand with merchantable heights approaching 8-9 sticks, some with clean trunks all the way to 7 sticks. Very impressive stand. But very small crowns. Suspect it would blow apart if it were thinned. The stand examiner imagines a "ripper" of a slash fire climbing out of the swamp to have possibly started this, but that's speculation. About 200-250 BA! | |
|--------------------|--------------------------|----------------|---------------|---------|------|-----|--|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Maple | | 3 | Log/Pole | 10 | | | | |
| White Pine | | 20 | Log/XLog | 16 | | | | |
| Balsam Fir | | 2 | Pole | 5 | | | | |
| Red Pine | | 75 | Log/XLog/Pole | 17 | 115 | | | |
| Sub-Canopy Species | | Density | Avg. Height | Size | | | | |
| Balsam Fir | | Full | Variable | Sapling | | | | |

| 97 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Medium | 17.9 | 55 | 51-80 | N/A | A somewhat sparse canopy of swamp conifers with a brushy substrate. A fair number of very old trees (estimated 120-140 years old) in the north. Black ash was a former stand constituent which has died out. | |
|----------------------|--|-------------------|---------------|------------|-------|-----|--|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Northern White Cedar | | 20 | Log/Pole/XLog | 16 | | | | |
| White Spruce | | 10 | Log/Pole | 12 | | | | |
| White Pine | | 5 | Pole | 6 | | | | |
| Red Maple | | 15 | Pole | 8 | 60 | | | |
| Paper Birch | | 5 | Sapling/Pole | 4 | | | | |
| White Pine | | 10 | XLog | 24 | | | | |
| Balsam Fir | | 35 | Pole | 7 | 55 | | | |
| Sub-Canopy Species | | Density | Avg. Height | Size | | | | |
| Hazelnut (Spp.) | | Low | 5 - 10 feet | Tall Shrub | | | | |
| White Spruce | | Trace | 5 - 10 feet | Sapling | | | | |
| Balsam Fir | | Low | 5 - 10 feet | Sapling | | | | |
| Mixes Sedges/Grasses | | High | Unspecified | Non-Wood | | | | |
| Beech | | Trace | 10 - 20 feet | Sapling | | | | |
| Cattail spp. | | Low | Unspecified | Non-Wood | | | | |
| Tag Alder | | Medium | 5 - 10 feet | Tall Shrub | | | | |

| 98 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Well | 14.2 | 70 | 111-140 | N/A | The broadleaf or hardwood expression of the swamp conifers nearby. There are a few small, low relief knolls that are essentially upland. The western portion of the stand is a little different, but too small to stand on its own, and is a very wet basin with decadent aspen probably about 90 years old. | |
|----------------------|--|-----------------|-------------|------------|---------|-----|--|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| White Spruce | | 5 | Log | 13 | | | | |
| Red Pine | | 2 | Log/XLog | 16 | | | | |
| Bigtooth Aspen | | 3 | Log/Pole | 15 | 70 | | | |
| Balsam Fir | | 10 | Pole | 6 | | | | |
| Paper Birch | | 8 | Pole | 6 | | | | |
| Red Maple | | 30 | Pole/Log | 9 | 70 | | | |
| Northern White Cedar | | 2 | Log/Pole | 10 | 120 | | | |
| Quaking Aspen | | 25 | Pole/Log | 9 | 70 | | | |
| Sub-Canopy Species | | Density | Avg. Height | Size | | | | |
| Alder | | Low | 5 - 10 feet | Tall Shrub | | | | |
| Michigan Holly | | Low | 5 - 10 feet | Tall Shrub | | | | |
| Nannyberry | | Low | 5 - 10 feet | Tall Shrub | | | | |



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

99 3102 - Grass Nonstocked 1.4 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Sweet Fern | Low | < 5 feet | Tall Shrub |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Balsam Fir | Trace | 5 - 10 feet | Sapling |
| Quaking Aspen | Trace | Variable | Sapling |
| Big Bluestem | Trace | Unspecified | Non-Wood |
| Autumn Olive | Trace | 5 - 10 feet | Tall Shrub |
| White Pine | Trace | 5 - 10 feet | Sapling |
| Little Bluestem | Low | Unspecified | Non-Wood |
| Mixes Sedges/Grasses | Full | Unspecified | Non-Wood |
| Jack Pine | Trace | 5 - 10 feet | Sapling |

100 4130 - Aspen Sawtimber Well 17.9 53 81-110 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| White Pine | 3 | XLog | 30 | 102 |
| Red Pine | 4 | Log | 14 | |
| Quaking Aspen | 35 | Log/Pole | 11 | 53 |
| White Pine | 8 | Pole | 8 | |
| Balsam Fir | 5 | Pole/Sapling | 5 | |
| Red Maple | 5 | Log/Pole | 12 | |
| Red Oak | 10 | XLog | 20 | 102 |
| Bigtooth Aspen | 30 | Log/Pole | 10 | 53 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------------|---------|--------------|------------|
| Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub |
| White Pine | Low | Variable | Sapling |
| Witch Hazel | Trace | 5 - 10 feet | Tall Shrub |
| Hawthorn (spp.) | Trace | 5 - 10 feet | Tall Shrub |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub |
| Balsam Fir | Low | Variable | Sapling |
| Red Maple | High | Variable | Sapling |

Aspen attained good size in a short amount of time in this stand. There are a few aspen that are probably 84 years old as in nearby stands. Likely these weren't merchantable when the stand was last harvested about 50 years ago. There is an interesting conifer stringer that runs east-west between Voyer Lake Rd and the wildlife opening.

101 3102 - Grass Nonstocked 5.9 Unspecified Managed Opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------------|---------|--------------|------------|
| Big Bluestem | Medium | Unspecified | Non-Wood |
| Sedges | High | 5 - 10 feet | Non-Wood |
| Cherry (spp.) | Low | 10 - 20 feet | Sapling |
| Bigtooth Aspen | Low | >20 feet | Sapling |
| White Pine | Low | 10 - 20 feet | Sapling |
| Little Bluestem | Low | Unspecified | Non-Wood |
| Sweet Fern | High | < 5 feet | Tall Shrub |
| Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub |

An opening with more than the usual spate of invasive/exotics. Would be nice to maintain somehow. The shape, however isn't conducive to burning. Brushing in from the margins, mostly in the south.



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

102 4319 - Mixed Upland Forest Sawtimber Well 23.6 102 141-170 N/A

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|------------------------------|---------|--------------|------------|
| Balsam Fir | 8 | Log/Pole | 10 | | Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub |
| Black Cherry | 1 | Log/Pole | 12 | | Witch Hazel | Trace | 5 - 10 feet | Tall Shrub |
| White Pine | 20 | XLog/Log | 22 | 102 | White Pine | Medium | 10 - 20 feet | Sapling |
| Jack Pine | 6 | Pole | 7 | | Balsam Fir | High | Variable | Sapling |
| Red Pine | 15 | XLog/Log | 19 | 102 | Northern White Cedar | Low | >20 feet | Pole |
| Bigtooth Aspen | 5 | Log | 14 | | Tag Alder | Low | < 5 feet | Tall Shrub |
| Red Oak | 10 | Log/XLog | 16 | 102 | Red Maple | Low | >20 feet | Sapling |
| White Spruce | 5 | Log | 13 | | | | | |
| Quaking Aspen | 15 | Log/XLog | 15 | | | | | |
| Northern White Cedar | 1 | Log | 10 | | | | | |
| Red Maple | 12 | Log/Pole | 11 | | | | | |
| Paper Birch | 2 | Pole/Log | 9 | | | | | |

A transitional stand between relatively higher and lower elevations. Only the change of a few feet of elevation bring great changes in species composition and site quality. Faint ridges the read like upland intermixed with lowland potholes and fringes. A couple groves of what look to be natural origin pine, one likely would meet legacy standards. An extremely dense natural red pine patch in the center was about 200BA. Old north-south trail connects two portions of this stand separated by a swamp type. This trail provides access to the aspen to the south. Growth rings on red pine shows very rapid growth until the stand became very dense. Probably good ground for pine generally.

103 320 - Upland Shrub Nonstocked 1.7 0 Unspecified No

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Little Bluestem | Medium | Unspecified | Non-Wood |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Blackberry/Raspberry | Medium | < 5 feet | Tall Shrub |
| Jack Pine | Low | 10 - 20 feet | Sapling |

The stand examiner is unsure if this opening is maintained as such. It likely was the landing for the harvest of the stand to the south.

104 3104 - Degraded Nonstocked 1.3 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Sedges | Medium | Unspecified | Non-Wood |
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Little Bluestem | Trace | Unspecified | Non-Wood |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Sweet Fern | High | < 5 feet | Tall Shrub |

It is evident this is a favored location for spinning donuts. Much sand worked up in ruts. Otherwise, your average degraded well site.

105 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 12.5 26 1-50 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|--------------|-----|-----|
| Red Maple | 5 | Sapling | 3 | |
| White Pine | 2 | Sapling | 3 | |
| Northern Pin Oak | 5 | Sapling | 4 | |
| Quaking Aspen | 20 | Sapling | 2 | |
| Jack Pine | 61 | Sapling/Pole | 4 | 26 |
| Black Cherry | 5 | Sapling | 4 | |
| Balsam Fir | 2 | Sapling | 2 | |

Upland save for a fringe of lowland in the northwest in which jack pine may be seen growing atop sphagnum and leatherleaf. A nice young jack pine stand.



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

106 3102 - Grass Nonstocked 1.9 Unspecified Managed Opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Cherry (spp.) | Low | 10 - 20 feet | Tall Shrub |
| White Pine | Trace | 5 - 10 feet | Sapling |
| Little Bluestem | Trace | Unspecified | Non-Wood |
| Sedges | High | Unspecified | Non-Wood |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |

107 4319 - Mixed Upland Forest Sawtimber Well 10.7 106 111-140 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|---------------|-----|-----|
| White Pine | 30 | XLog/Log/Pole | 18 | 106 |
| Red Pine | 5 | Log/XLog | 14 | |
| Jack Pine | 5 | Log/Pole | 12 | |
| Bigtooth Aspen | 5 | Pole/Log | 9 | |
| Balsam Fir | 5 | Pole/Sap/Log | 7 | |
| Black Spruce | 8 | Pole | 7 | 89 |
| Northern White Cedar | 1 | Log/XLog | 14 | |
| Quaking Aspen | 12 | Pole/Log | 8 | |
| Paper Birch | 2 | Pole | 9 | |
| Red Maple | 25 | Pole | 8 | |
| Red Oak | 2 | Pole/Log | 8 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| White Pine | Medium | 5 - 10 feet | Sapling |
| Leatherleaf | Low | < 5 feet | Tall Shrub |
| Balsam Fir | High | Variable | Sapling |

Only the farthest western portions of the stand might become too wet to manage. The stand as a whole is a transition between excessively drained upland and wetland. Aspen seem like the major species in the east but this quickly shifts to log-size white pine. The farther west one travels the more prominent the pit and mound microtopography becomes, along with increasing wetland indicators. The recent harvest to the north was probably the same kind of stand as this one.

108 122 - Road/Parking Lot Nonstocked 14.3 Unspecified No Voyer Lake Road. Native surface and gravel.

109 3102 - Grass Nonstocked 3.8 Unspecified No

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|--------------|------------|
| Northern Pin Oak | Trace | >20 feet | Sapling |
| White Pine | Low | 5 - 10 feet | Sapling |
| Big Bluestem | Trace | Unspecified | Non-Wood |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Little Bluestem | Medium | Unspecified | Non-Wood |
| Hawthorn (spp.) | Low | 5 - 10 feet | Tall Shrub |
| Cherry (spp.) | Low | >20 feet | Sapling |
| Serviceberry (Juneberry) | Low | 10 - 20 feet | Sapling |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |



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

110 4311 - Pine, Aspen Mix Sapling Well 17.1 24 1-50 N/A Except for near Voyer Lake Road, this stand seems better suited for conifers. It seems like the water table should be near the surface.

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|--------------|-----|-----|
| Northern Pin Oak | 4 | Sapling | 2 | |
| Quaking Aspen | 15 | Sapling/Pole | 3 | 24 |
| Red Pine | 2 | Pole/Log | 8 | |
| Balsam Fir | 10 | Pole/Sapling | 6 | |
| Red Maple | 5 | Sapling | 2 | |
| Black Cherry | 3 | Sapling/Pole | 3 | |
| White Oak | 1 | Sapling | 2 | |
| Jack Pine | 35 | Pole/Sapling | 5 | 24 |
| Bigtooth Aspen | 17 | Pole/Sapling | 5 | 24 |
| White Pine | 8 | Pole/Sapling | 7 | |

111 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 47.7 53 81-110 N/A High levels of browse to red maple. Some aspen look about 80-90 years old. Best site quality located in the east. As one moves west and south the site quality decreases; this is especially noticeable in the aspen. A good proportion oak but many show butt rot.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|------------------------------|---------|--------------|------------|
| Quaking Aspen | 25 | Pole/Log | 8 | 53 | Red Maple | Medium | < 5 feet | Seeding |
| White Pine | 5 | Pole | 6 | | Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub |
| Red Maple | 10 | Pole/Log | 8 | | Balsam Fir | Medium | Variable | Sapling |
| Balsam Fir | 5 | Pole/Sapling | 6 | | Hawthorn (spp.) | Trace | 5 - 10 feet | Tall Shrub |
| Red Oak | 15 | XLog/Log | 18 | | Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub |
| Bigtooth Aspen | 10 | Pole | 8 | 53 | White Pine | Low | Variable | Sapling |
| White Pine | 10 | XLog | 24 | | Jack Pine | Low | Variable | Sapling |
| Red Pine | 10 | Log/XLog/Pole | 14 | | Witch Hazel | Low | 5 - 10 feet | Tall Shrub |

112 3104 - Degraded Nonstocked 1.1 Unspecified A favored location to spin donuts. Besides that, the usual mix of weeds make this worse than the average degraded well opening.

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| White Pine | Low | 10 - 20 feet | Sapling |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Jack Pine | Trace | < 5 feet | Seeding |
| Mixes Sedges/Grasses | Medium | Unspecified | Non-Wood |

113 6117 - Lowland Deciduous, Mixed Coniferous Sapling Poor 14.9 36 1-50 N/A If this was cut 36 years ago with the stand surrounding it, the harvest probably swamped the stand. Essentially it's just saplings with very dense alder. The ground is easily too wet. Records indicate that harvest here might have been non commercial, primarily for deer feed and wild life habitat.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|----------------------|---------|-------------|------------|
| Paper Birch | 30 | Sapling | 2 | 36 | Balsam Fir | Low | < 5 feet | Seeding |
| Balsam Fir | 20 | Sapling | 2 | 36 | Tag Alder | Full | 5 - 10 feet | Tall Shrub |
| Black Ash | 25 | Sapling | 2 | | Sphagnum Moss | High | 5 - 10 feet | Non-Wood |
| Quaking Aspen | 5 | Sapling | 2 | | Mixes Sedges/Grasses | High | Unspecified | Non-Wood |
| Balsam Poplar | 10 | Sapling/Pole | 4 | | Cattail spp. | Medium | Unspecified | Non-Wood |



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

115 4311 - Pine, Aspen Mix Poletimber Well 29.6 54 51-80 N/A

A couple different ages of aspen. The stand age is the mean. It's possible that it was entered on several different occasions for species cuts. This stand appears poorer than the one to the north with aspen showing conk, wider spacing and poorer form. White pine and other conifers seem to be doing better. It's likely that the water table is relatively close to the surface with the occasional gray dogwood noted.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------|---------|--------------|------------|
| White Pine | 30 | Log/Pole/XLog | 11 | | Gray Dogwood | Low | 5 - 10 feet | Tall Shrub |
| Black Cherry | 1 | Pole/Sapling | 5 | | Balsam Fir | Low | < 5 feet | Seeding |
| Balsam Fir | 20 | Pole/Sapling | 6 | 48 | White Pine | Medium | 10 - 20 feet | Sapling |
| Jack Pine | 5 | Log/Pole | 10 | | Red Oak | Low | 10 - 20 feet | Sapling |
| Red Oak | 1 | Log/XLog | 15 | | Quaking Aspen | Low | 10 - 20 feet | Sapling |
| Red Maple | 8 | Pole | 6 | | | | | |
| Quaking Aspen | 35 | Pole | 8 | 54 | | | | |

116 4130 - Aspen Poletimber Well 15.3 36 111-140 N/A

Exceptional growth for its age.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------------|---------|-------------|------------|
| Red Maple | 15 | Pole/Log/Sap | 8 | | Balsam Fir | Low | Variable | Sapling |
| Paper Birch | 2 | Pole | 7 | | Serviceberry (Juneberry) | Low | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 15 | Pole/Log | 8 | | Red Maple | Low | 5 - 10 feet | Sapling |
| Bigtooth Aspen | 60 | Pole/Log | 9 | 36 | White Pine | Trace | >20 feet | Sapling |
| Balsam Fir | 5 | Pole/Sapling | 5 | | | | | |
| White Pine | 3 | Log/XLog | 16 | | | | | |

117 429 - Mixed Upland Conifers Poletimber Well 13.1 52 81-110 N/A

Quaking aspen in this stand is generally in fair to poor shape in terms of health and quality. Pine seems to do better generally. Almost xeric seeming ridges with some lower, wetter spots along the margins. Currently it looks as if many fir and jack pine are falling out of the canopy.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|------------------------------|---------|-------------|------------|
| Bigtooth Aspen | 7 | Pole | 8 | 49 | Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub |
| Red Pine | 10 | Log/Pole/XLog | 12 | 103 | White Pine | Low | < 5 feet | Sapling |
| Quaking Aspen | 11 | Pole/Log | 8 | | Red Oak | Trace | 5 - 10 feet | Sapling |
| Balsam Fir | 24 | Pole/Sapling | 7 | 52 | Balsam Fir | Low | < 5 feet | Sapling |
| Jack Pine | 20 | Pole/Sapling | 7 | | Beech | Trace | 5 - 10 feet | Sapling |
| White Pine | 13 | Log/Pole/XLog | 11 | | Cherry (spp.) | Low | 5 - 10 feet | Tall Shrub |
| Red Oak | 5 | Log/XLog | 16 | | | | | |
| Red Maple | 7 | Log/Pole | 11 | | | | | |
| White Oak | 3 | Log | 12 | | | | | |



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

121 4130 - Aspen Poletimber Well 31.9 36 81-110 N/A Lower performing upland portions of this aspen stand separated and made their own stand.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Jack Pine | 2 | Pole | 7 | |
| Red Maple | 20 | Pole | 5 | |
| Red Oak | 5 | Pole | 7 | |
| Balsam Fir | 3 | Pole/Sapling | 5 | |
| Bigtooth Aspen | 5 | Pole/Sapling | 7 | 36 |
| Quaking Aspen | 65 | Pole/Sapling | 6 | 36 |

122 4191 - Mixed Upland Deciduous with Conifer Sapling Well 14.4 16 1-50 N/A An interesting stand, if you don't mind red maple. There's a fair amount of species diversity, a reasonable amount of oak in some places, and a great deal of vertical structural diversity. It's probably a good stand for wildlife but for its size and proximity to roads. Old sale notes indicate an intention to plant, however this looks not to have been done, probably in favor of natural regeneration.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|--------------|-----|-----|------------------------------|---------|-------------|------------|
| White Oak | 5 | Sapling | 2 | | Blueberry/Bilberry/Cranberry | Low | < 5 feet | Tall Shrub |
| Red Maple | 30 | Sapling | 2 | 16 | Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Serviceberry (Juneberry) | 5 | Sapling | 2 | | Sweet Fern | Low | < 5 feet | Tall Shrub |
| Quaking Aspen | 10 | Sapling | 3 | 16 | | | | |
| Balsam Fir | 10 | Pole/Sapling | 5 | | | | | |
| White Pine | 20 | Pole/Sapling | 7 | | | | | |
| Jack Pine | 5 | Sapling | 3 | | | | | |
| Red Oak | 10 | Sapling | 3 | | | | | |

123 500 - Water Nonstocked 30.2 No Make no mistake, it's Voyer Lake.

124 4199 - Other Mixed Upland Deciduous Poletimber Well 29.3 46 81-110 N/A Small portions of this stand easily could have been a hardwood stand. White ash was a former stand component that has died out since the last inventory. Aspen tends to be most numerous in many places but there are still good red and sugar maple stems among them.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------|---------|-------------|---------|
| Beech | 8 | Sapling/Pole | 4 | | Balsam Fir | Medium | < 5 feet | Sapling |
| Red Oak | 20 | Log/XLog | 15 | | | | | |
| Basswood | 2 | Pole | 7 | | | | | |
| Paper Birch | 12 | Pole | 6 | | | | | |
| Bigtooth Aspen | 15 | Log/Pole | 12 | | | | | |
| Quaking Aspen | 20 | Pole | 8 | 46 | | | | |
| Red Maple | 10 | Pole | 8 | | | | | |
| Sugar Maple | 10 | Pole | 6 | | | | | |
| Balsam Fir | 3 | Pole/Sapling | 5 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|----------------|-------|-----------|--------------------|--------------|--|----------------|---------|------------|-----|-----|--------------------|---------|-------------|------|--------------|------------|--------------|---------|----|------------|------------|-------------|---------|------------|----|---------------|----|---------|---------|-------|----------------|------------|----------------------|----|----------|-----------|----|------------|------|--------------|------------|------------|----|--------------|---|--|--------------|--------|--------------|----------|----------------|----|----------|----|--|---------------|-----|-------------|------------|------------|----|--------------|---|--|-----------|-----|--------------|---------|---------------|----|----------|----|----|--|--|--|--|
| 125 | 4133 - Aspen, Mixed Pine | Sapling Well | 6.5 | 7 | Immature | N/A | Stand is growing in well. There is a surprising amount of jack pine in the southwest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 50 | Sapling | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Sapling | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 1 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 126 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 22.0 | 84 | 81-110 | N/A | Upland, barely. A two foot "climb" out of the surrounding swamp brings upland characteristics with muck and water filled potholes and swales scattered throughout. Open spots on imagery are usually cattails and alder over muck and water. A few blowdown pockets, mostly in the south. An open trail, likely an old rail grade or ice road, has been maintained open by a landowner. Ridges can be as much as perhaps 6 feet higher elevation than the potholes and swales. Aspen age is an estimate as borer was broken at the time. However the aspen are showing signs of decline. This will not hold much longer as an aspen stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 3 | Pole/Sapling | 6 | | White Pine | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Log/XLog | 14 | | Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 2 | Pole | 8 | | Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole/Sapling | 6 | | Cattail spp. | Low | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 10 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 45 | Log/Pole | 12 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | 42110 - Planted Red Pine | Sawtimber Well | 10.9 | 73 | 81-110 | N/A | An unusual amount of white oak saplings in the understory. Many are free to grow. Could this be a stand to someday convert to oak? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 100 | Log | 14 | 73 | Red Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Beech | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | White Oak | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128 | 42110 - Planted Red Pine | Sawtimber Well | 13.3 | 63 | 141-170 | N/A | 5 BA swings yield 154BA. Open understory in the north and center. Increasing amounts of white pine to the west and south. Private ownership runs through a small section in the south east. Healthy looking stand. Only one smallish pocket of bug-hit trees. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 1 | Pole/Sapling | 5 | | White Pine | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 1 | XLog | 22 | | Beech | Trace | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 95 | Log/Pole | 11 | 63 | Sweet Fern | Low | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 1 | Pole | 7 | | Balsam Fir | Medium | Variable | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 2 | Log/Pole | 13 | | Cherry (spp.) | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Red Maple | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|-----------------|------------|------------|----------|--------------|---|------------|----|--------------|---|----|--------------|---|--------------|---|--|----------------|---|------|---|----|--------------|----|--------------|----|--|---------------|----|--------------|---|----|----------------------|----|----------|----|----|---------------|----|--------------|---|----|--|----|--------------------|---------|-------------|------------------|-------|----------|-------------|------------|---|-----|--------------------|------------|-------------|---|------------------------------|--------------------|----------|-------------|-------------|-----------------|-----|-------------|------------|---------|-----|--------------|---------|-----------|-----|----------|---------|------------|--------|----------|---------|-------|-------|----------|---------|------------|-----|-------------|------------|------------|-----|----------|---------|---------------|--------|-------------|------------|-------|-----|-------------|------------|
| 129 | 6112 - Lowland Aspen | Sapling Well | 34.6 | 36 | 51-80 | N/A | A difficult call between upland and lowland. By area and as a factor for potential future management, lowland probably dominates. The southern fringe, eastern stand margins grading into emergent marsh, and the numerous pitted outwash potholes are definitely too wet for management. There are some ridges but often separating them are somewhat wet saddles. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Sapling/Pole | 4 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | 5 | Pole | 5 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 2 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 45 | Pole/Sapling | 7 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 23 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray Dogwood | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sedges | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | 429 - Mixed Upland Conifers | Poletimber Well | 7.9 | 40 | 81-110 | N/A | More uniform in characteristics that the stand to the north. Generally upland. Based on evidence in this stand and others to the south, this area was cut about 40 years ago, leaving a patchwork of stand conditions resulting from a species cut. It appears that red maple, aspen and birch were the species harvested while pine and oak were left. At that time, there were pockets of pre-merchantable aspen that were left. These are now about 50 years old and are a part of stand 140. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 2 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 25 | Pole/Sapling | 6 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 15 | Log/XLog | 16 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 15 | Sapling/Pole | 4 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 3 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 131 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 16.8 | 45 | 51-80 | N/A | The stand examiner surmises that perhaps 20% of the stand is made up of aspen of good size, quality and health for its age. This area lies in the northeast with trees attaining 4-6 merchantable sticks. Much of the rest is very poor for its age, often attaining only 2-3 sticks of merchantable height, showing conk and gnarled form. Where poor quality trees exist, they tend to coincide with lower basal area. Red maple is less frequent in these areas and the soil seems nutrient poor and dry, despite the water table seeming close to the surface. There are several brushy open patches. On the other hand, this is a very diverse stand in terms of site quality, species composition, and horizontal and vertical structure. Generally conifers seem happiest here. A theme is developing in this compartment: with the change of a few feet of elevation comes drastic changes that determine upland and lowland characteristics. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 5 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 1 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 2 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 8 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 2 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 60 | Pole | 7 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 3 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 7 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 2 | Sapling | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hazelnut (Spp.) | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Trace | < 5 feet | Seeding | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nannyberry | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherry (spp.) | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

| | | | | | | | |
|------------|----------------------|----------------|------|----|---------|-----|---|
| 132 | 6120 - Lowland Cedar | Sawtimber Well | 37.0 | 94 | 111-140 | N/A | Edges may be operable and tend to support occasional nice spruce. Birch is currently dying out. Ash has fallen out of the stand already. There's a few ancient looking quaking aspen spread around. Mostly too wet, especially to the center. Cedar cores indicate that at least portions of this stand are very good (productive) sites for cedar. |
|------------|----------------------|----------------|------|----|---------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| Paper Birch | 10 | Pole | 8 | |
| Balsam Poplar | 6 | Pole | 7 | |
| Balsam Fir | 6 | Pole/Sapling | 5 | |
| White Spruce | 4 | Log | 11 | |
| Black Spruce | 3 | Sapling/Pole | 4 | |
| Red Maple | 14 | Pole/Sapling | 5 | |
| Quaking Aspen | 7 | Pole/Sapling | 6 | |
| Northern White Cedar | 50 | Log/Pole | 11 | 94 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Balsam Fir | Low | < 5 feet | Seeding |
| Mixes Sedges/Grasses | Low | Unspecified | Non-Wood |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Goldenrod spp. | Low | Unspecified | Non-Wood |
| White Spruce | Low | < 5 feet | Seeding |
| Cattail spp. | Low | Unspecified | Non-Wood |

| | | | | | | | |
|------------|---------------------------|-----------------|------|----|--------|-----|---|
| 133 | 6124 - Lowland Spruce-Fir | Poletimber Well | 15.4 | 85 | 81-110 | N/A | Stand margins may be operable but the interior is far too wet to harvest. Blow down pockets increase to the east. Ash has fallen out of the stand and white birch is currently senescing. |
|------------|---------------------------|-----------------|------|----|--------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|------------|-----|-----|
| Northern White Cedar | 30 | Log/Pole | 12 | |
| White Spruce | 3 | Log | 10 | |
| Red Maple | 6 | Log/XLog | 15 | |
| Paper Birch | 3 | Pole | 7 | |
| Black Spruce | 30 | Pole | 7 | 85 |
| Balsam Poplar | 8 | Pole/Log | 8 | |
| Balsam Fir | 20 | Pole | 7 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Willow spp. | Trace | 10 - 20 feet | Tall Shrub |
| Sphagnum Moss | High | >20 feet | Non-Wood |
| Tag Alder | Medium | 5 - 10 feet | Tall Shrub |
| Leatherleaf | High | < 5 feet | Tall Shrub |
| Balsam Fir | High | 5 - 10 feet | Sapling |

| | | | | | | | |
|------------|--------------------------|----------------|------|----|--------|-----|---|
| 134 | 42110 - Planted Red Pine | Sawtimber Well | 10.3 | 63 | 81-110 | N/A | Plantation records show two planting efforts in this area. One in 1940, which probably explains the large saw sized trees in the stand, and the other in 1959. Despite the low density, it looks like there's plenty of intermediate red pine that could be removed to favor co dominant-dominants. Still, it probably will want 10 more years of waiting before a thinning. There are a fair number of northern pin oak saplings in the Northeast. |
|------------|--------------------------|----------------|------|----|--------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|------------|-----|-----|
| Red Pine | 95 | Log/Pole | 10 | 63 |
| Red Maple | 2 | Log | 12 | |
| Northern Pin Oak | 2 | Log/XLog | 16 | |
| Jack Pine | 1 | Log | 14 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|---------|
| Red Maple | Medium | Variable | Sapling |
| Northern Pin Oak | Medium | 10 - 20 feet | Sapling |
| Cherry (spp.) | Low | Variable | Sapling |

| | | | | | | | |
|------------|--------------|------------|-----|--|-------------|----|---|
| 135 | 3102 - Grass | Nonstocked | 3.5 | | Unspecified | No | Appears to be used as a food plot with planted corn. Brushing in the east. Old skid roads maintained for social recreational paths. |
|------------|--------------|------------|-----|--|-------------|----|---|

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|-------------|------------|
| Cherry (spp.) | Low | >20 feet | Sapling |
| Northern Pin Oak | Trace | >20 feet | Sapling |
| White Pine | Low | 5 - 10 feet | Sapling |
| Jack Pine | Medium | >20 feet | Pole |
| Blackberry/Raspberry | Low | 5 - 10 feet | Tall Shrub |
| Red Maple | Low | >20 feet | Sapling |
| Paper Birch | Low | >20 feet | Sapling |
| Quaking Aspen | Trace | < 5 feet | Seeding |



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

136 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 1.8 99 1-50 N/A

Sort of a loose overstory of mostly maple but also some birch and spruce from the prior stand. Probably the only reasonably operable acreage near the trail. The upland expression of stand 118, adjacent. In fact, the ridges of 118 may type similarly to this stand (if they were also cut). But, chasing these little ridges throughout that stand seems fairly impractical.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|-----|-----|----------------------|---------|-------------|------------|
| Black Spruce | 5 | Pole | 6 | | Michigan Holly | Medium | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 5 | Log/Pole | 15 | | Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Northern White Cedar | 15 | Log/Pole | 12 | 99 | Goldenrod spp. | Medium | Unspecified | Non-Wood |
| White Pine | 5 | Log/Pole | 10 | | Alder | Medium | 5 - 10 feet | Tall Shrub |
| White Spruce | 3 | Pole/Sapling | 5 | | Mixes Sedges/Grasses | Low | Unspecified | Non-Wood |
| Balsam Poplar | 15 | Sapling | 2 | 8 | Red Osier Dogwood | Medium | < 5 feet | Tall Shrub |
| Paper Birch | 10 | Pole/Log | 8 | 99 | Willow spp. | Trace | 5 - 10 feet | Tall Shrub |
| Red Oak | 3 | Log | 10 | | | | | |
| Basswood | 2 | Log | 14 | | | | | |
| American Elm | 2 | Sapling | 2 | | | | | |
| Red Maple | 33 | Pole/Sap/Log | 8 | 99 | | | | |

137 6130 - Fir, Aspen, Maple Poletimber Well 11.6 36 1-50 N/A

The stand becomes increasingly poor to the east. In the last harvest, this was the half of a payment unit that was cut. North of here, stand 57, is the rest of the payment unit that wasn't cut.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------|---------|--------------|------------|
| Red Maple | 20 | Sapling | 2 | | Alder | Medium | 5 - 10 feet | Tall Shrub |
| Red Oak | 3 | Sapling | 3 | | Willow spp. | Trace | 10 - 20 feet | Tall Shrub |
| Black Cherry | 2 | Pole/Sapling | 5 | | | | | |
| Black Spruce | 10 | Sapling/Pole | 4 | | | | | |
| Balsam Fir | 27 | Pole/Sapling | 5 | 36 | | | | |
| White Pine | 10 | Pole/Log/Sap | 8 | | | | | |
| Quaking Aspen | 25 | Pole/Sapling | 6 | 36 | | | | |
| Tamarack | 3 | Pole | 5 | | | | | |

138 6239 - Mixed Emergent Wetland Nonstocked 30.1 Unspecified No Voyer Lake marsh.

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Cattail spp. | High | Unspecified | Non-Wood |
| Alder | Medium | 5 - 10 feet | Tall Shrub |
| Balsam Fir | Low | Variable | Sapling |
| Red Maple | Low | >20 feet | Sapling |
| Paper Birch | Low | >20 feet | Sapling |
| Red Pine | Low | >20 feet | Sapling |
| Willow spp. | Low | 10 - 20 feet | Tall Shrub |
| Meadowsweet | Low | < 5 feet | Tall Shrub |



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

139 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 7.8 82 81-110 N/A

A whisper of a ridge curls down the eastern edge. This is the location of those species ore typically associated with uplands. After that narrow area, the stand quickly turns into a saturated mucky mess. White birch is dying out. Stand age is based on similar trees to the north. Spruce has the current age taken in this year of entry.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|--------------------|---------|-------------|------------|
| Red Pine | 2 | Log/XLog | 15 | | Balsam Fir | Low | < 5 feet | Seeding |
| Paper Birch | 10 | Pole | 8 | | Tag Alder | Medium | 5 - 10 feet | Tall Shrub |
| Quaking Aspen | 10 | Log/Pole | 11 | | Cattail spp. | Low | Unspecified | Non-Wood |
| Northern Pin Oak | 3 | Pole | 6 | | Sphagnum Moss | High | Unspecified | Non-Wood |
| Balsam Poplar | 5 | Pole/Log | 8 | | Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| Balsam Fir | 22 | Pole/Log | 9 | 82 | | | | |
| Black Spruce | 8 | Log/Pole | 10 | | | | | |
| Northern White Cedar | 20 | Log/Pole | 12 | | | | | |
| Red Maple | 10 | Pole | 6 | | | | | |

140 429 - Mixed Upland Conifers Sawtimber Well 25.6 98 111-140 N/A

A fairly dry ridge with two ages. Aspen in the north are a little over 50 years old, they were premerchantable when the rest of the stand was species cut about 40 years ago leaving a mosaic of smaller stands in the area behind. Old cohort was about 95-110 years old. Recent cohort is about 40. Probably a fairly good site with trace amounts of off-site sugar maple.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|--------------|-----|-----|--------------------|---------|--------------|---------|
| Sugar Maple | 1 | Pole | 6 | | Red Maple | Medium | >20 feet | Sapling |
| Red Oak | 2 | Log/XLog | 17 | | Balsam Fir | High | 10 - 20 feet | Sapling |
| White Spruce | 2 | Log | 16 | | White Pine | Low | 10 - 20 feet | Sapling |
| Bigtooth Aspen | 8 | Pole | 8 | 41 | Black Spruce | Trace | 10 - 20 feet | Sapling |
| Balsam Fir | 10 | Pole/Sapling | 5 | | | | | |
| White Pine | 40 | XLog/Log | 20 | 98 | | | | |
| Black Spruce | 10 | Pole/Log | 9 | | | | | |
| Red Pine | 13 | Log/XLog | 17 | 98 | | | | |
| Red Maple | 13 | Pole | 6 | | | | | |
| Paper Birch | 1 | Pole | 7 | | | | | |

141 6118 - Lowland Deciduous with Cedar Sawtimber Poor 48.9 96 1-50 N/A

What's standing are groups of cedar, red maple, fir and balsam poplar. Much of the rest of the stand is blowdown pockets of cedar and dead ash. Marsh sedge/grass/rushes and lowland brush in between. Ages I cored in nearby stands close to the prior stand examiner found for this stand so I'm leaving the previous inventories age.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|----------------------|---------|-------------|------------|
| Balsam Poplar | 20 | Pole/Log | 8 | 56 | Tag Alder | Medium | < 5 feet | Tall Shrub |
| Northern White Cedar | 30 | Log/Pole | 10 | 96 | Cattail spp. | Low | Unspecified | Non-Wood |
| Paper Birch | 10 | Pole | 5 | | Balsam Fir | Medium | Variable | Sapling |
| Balsam Fir | 10 | Pole | 6 | | Mixes Sedges/Grasses | Medium | Unspecified | Non-Wood |
| Red Maple | 30 | Pole | 8 | | Bulrush | Low | Unspecified | Non-Wood |



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

142 4139 - Aspen, Mixed Deciduous Sapling Well 5.1 10 Immature N/A A black ash dog hair in places. Running north to south in the center is a ridge. East or west of this, the stand takes on lowland characteristics. Scattered "supercanopy" red maple, perhaps about 10 BA worth.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Red Maple | 20 | Sapling/Pole | 4 | |
| American Elm | 5 | Sapling | 3 | |
| Quaking Aspen | 40 | Sapling | 2 | 10 |
| Black Spruce | 3 | Sapling | 1 | |
| Black Ash | 20 | Sapling | 1 | |
| White Spruce | 2 | Sapling | 1 | |
| Balsam Fir | 10 | Pole/Sapling | 5 | |

145 3104 - Degraded Nonstocked 1.2 Unspecified degraded gas well opening

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|--------------|------------|
| Red Maple | Trace | 10 - 20 feet | Sapling |
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Balsam Fir | Low | 5 - 10 feet | Sapling |
| Sweet Fern | High | < 5 feet | Tall Shrub |
| Spotted Knapweed | High | Unspecified | Non-Wood |
| Bigtooth Aspen | Low | 5 - 10 feet | Sapling |

146 3104 - Degraded Nonstocked 0.9 0 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Sedges | High | Unspecified | Non-Wood |
| Spotted Knapweed | Medium | Unspecified | Non-Wood |
| Little Bluestem | Trace | Unspecified | Non-Wood |

147 3104 - Degraded Nonstocked 0.7 0 Typical oil/gas well mix

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Quaking Aspen | Low | 5 - 10 feet | Sapling |
| Sweet Fern | Low | < 5 feet | Tall Shrub |
| Red Pine | Low | 5 - 10 feet | Sapling |
| Bigtooth Aspen | Low | 5 - 10 feet | Sapling |
| Spotted Knapweed | Full | Unspecified | Non-Wood |
| White Pine | Low | 5 - 10 feet | Sapling |

148 3104 - Degraded Nonstocked 0.9 Unspecified Your average degraded well site

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Spotted Knapweed | Full | Unspecified | Non-Wood |
| Sweet Fern | Low | < 5 feet | Tall Shrub |
| Jack Pine | Low | < 5 feet | Seeding |



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

149 3102 - Grass Nonstocked 0.6 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|------------|
| Balsam Fir | Low | 10 - 20 feet | Sapling |
| White Pine | Low | 10 - 20 feet | Sapling |
| Jack Pine | Low | 10 - 20 feet | Sapling |
| Little Bluestem | Trace | Unspecified | Non-Wood |
| Sedges | High | Unspecified | Non-Wood |
| Sweet Fern | Medium | < 5 feet | Tall Shrub |
| Blackberry/Raspberry | Low | < 5 feet | Tall Shrub |
| Alder | Trace | 5 - 10 feet | Tall Shrub |

150 3102 - Grass Nonstocked 0.6 Unspecified

| Sub-Canopy Species | Density | Avg. Height | Size |
|------------------------------|---------|--------------|------------|
| White Pine | Low | 10 - 20 feet | Sapling |
| Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub |
| Big Bluestem | Medium | Unspecified | Non-Wood |
| Sedges | High | Unspecified | Non-Wood |
| Sweet Fern | High | < 5 feet | Tall Shrub |
| Cherry (spp.) | Low | 10 - 20 feet | Sapling |
| Bigtooth Aspen | Low | >20 feet | Sapling |
| Little Bluestem | Low | Unspecified | Non-Wood |

151 4133 - Aspen, Mixed Pine Poletimber Well 15.3 47 81-110 N/A

Grades gradually into lowland brush. A surprising amount of serviceberry and hazel brush.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|---------------|-----|-----|
| White Pine | 15 | Log/XLog/Pole | 14 | |
| Red Pine | 10 | Log/XLog | 16 | |
| Red Maple | 10 | Pole | 8 | |
| Quaking Aspen | 55 | Pole/Sap/Log | 6 | 47 |
| Red Oak | 5 | Log/XLog | 15 | |
| Balsam Fir | 5 | Pole/Sapling | 6 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|-------------|------------|
| White Pine | Low | < 5 feet | Seeding |
| Hazelnut (Spp.) | Medium | 5 - 10 feet | Tall Shrub |
| Balsam Fir | Low | < 5 feet | Sapling |
| Serviceberry (Juneberry) | Medium | Variable | Tall Shrub |
| Hawthorn (spp.) | Trace | 5 - 10 feet | Tall Shrub |

152 4139 - Aspen, Mixed Deciduous Poletimber Well 19.8 27 1-50 N/A

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|---------------|-----|-----|
| Red Maple | 20 | Sapling | 2 | |
| Black Cherry | 3 | Sapling | 4 | |
| Quaking Aspen | 32 | Pole | 6 | 27 |
| Jack Pine | 2 | Pole | 7 | |
| Balsam Fir | 5 | Pole/Sapling | 5 | |
| Bigtooth Aspen | 25 | Pole/Sapling | 5 | 27 |
| Red Oak | 13 | Log/XLog/Pole | 12 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Witch Hazel | Low | 5 - 10 feet | Tall Shrub |
| White Pine | Low | 5 - 10 feet | Sapling |



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

| 155 | 429 - Mixed Upland Conifers | Sawtimber Well | 49.9 | 107 | 81-110 | N/A | Lowland characteristics in the west along the swamp drainage grading into upland over relatively little elevation change. Dense fir understory tends to coincide with the wetter areas, while white pine regeneration increases in the upland. Looks species thinned about 30 years ago with the removal of merchantable aspen and red maple while retaining pine and oak it seems. There are rows forced through the stand in a north-south orientation, as if row thinned obvious in the center of the stand toward Voyer Lk Rd. A wide range of species and ages. Probably entered several times targeting different species and products. North of Voyer Lk Rd, was a separate stand previously but it had similar species, ages and apparent treatments with the same kind of operational alleys pushed through. Generally the north seemed to have had a harder thinning and a far denser fir understory. The "island" in the swamp also shows similar characteristics. These formerly separate stands were merged for those reasons. | | | | |
|----------------------|-----------------------------|----------------|---------------|-----|--------|------------------------------|---|---------|--------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Balsam Fir | | 10 | Pole/Sapling | 6 | | Red Maple | | Low | >20 feet | Sapling | |
| Red Oak | | 2 | Log/XLog | 16 | | Balsam Fir | | Full | Variable | Sapling | |
| White Spruce | | 2 | Log/Pole | 10 | | White Pine | | Low | 10 - 20 feet | Sapling | |
| Quaking Aspen | | 10 | Pole/Sap/Log | 7 | 31 | Jack Pine | | Low | 10 - 20 feet | Sapling | |
| Bigtooth Aspen | | 3 | Pole/Sapling | 6 | | Blueberry/Bilberry/Cranberry | | Medium | < 5 feet | Tall Shrub | |
| Northern White Cedar | | 5 | Log | 10 | | | | | | | |
| Paper Birch | | 3 | Pole | 7 | | | | | | | |
| White Pine | | 25 | XLog/Log/Pole | 22 | 107 | | | | | | |
| Red Pine | | 20 | XLog/Log | 18 | 107 | | | | | | |
| Red Maple | | 15 | Pole | 6 | | | | | | | |
| Jack Pine | | 5 | Log/Pole | 12 | 83 | | | | | | |

| 156 | 3102 - Grass | Nonstocked | 1.4 | | Unspecified | Managed Opening | |
|----------------------|--------------|------------|--------------|----------|-------------|-----------------|--|
| Sub-Canopy Species | | Density | Avg. Height | Size | | | |
| Mixes Sedges/Grasses | | High | 5 - 10 feet | Non-Wood | | | |
| Cherry (spp.) | | Low | 10 - 20 feet | Sapling | | | |
| White Pine | | Low | 10 - 20 feet | Sapling | | | |
| Red Oak | | Low | 10 - 20 feet | Sapling | | | |

| 157 | 4311 - Pine, Aspen Mix | Sawtimber Well | 2.9 | 70 | 111-140 | N/A | Areas of highest basal area have large diameter pine. | | | |
|----------------|------------------------|----------------|---------------|-----|---------|--------------------|---|---------|--------------|------------|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Bigtooth Aspen | | 2 | Pole/Log | 8 | | Hazelnut (Spp.) | | High | 5 - 10 feet | Tall Shrub |
| Red Maple | | 8 | Log/Pole | 11 | | White Pine | | Trace | 10 - 20 feet | Sapling |
| Quaking Aspen | | 35 | Pole/Log | 9 | 43 | Balsam Fir | | Low | 10 - 20 feet | Sapling |
| Red Oak | | 2 | XLog | 20 | | Ironwood | | Trace | >20 feet | Sapling |
| Balsam Fir | | 3 | Pole | 7 | | Red Maple | | Medium | >20 feet | Sapling |
| Red Pine | | 5 | Log/XLog/Pole | 16 | | | | | | |
| White Pine | | 45 | Log/Pole/XLog | 12 | 70 | | | | | |



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

158 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 19.4 94 141-170 N/A Some blow down. Saturated muck soils with standing and flowing water.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|--------------------|---------|-------------|------------|
| White Pine | 5 | XLog | 23 | | Hazelnut (Spp.) | Trace | 5 - 10 feet | Tall Shrub |
| White Spruce | 10 | Log/Pole | 10 | 94 | Sphagnum Moss | High | Unspecified | Non-Wood |
| Quaking Aspen | 5 | Log/Pole | 13 | | Tag Alder | Low | < 5 feet | Tall Shrub |
| Balsam Poplar | 5 | Log/Pole | 10 | | Balsam Fir | High | Variable | Sapling |
| Paper Birch | 5 | Log | 14 | | Leatherleaf | Low | 5 - 10 feet | Tall Shrub |
| Red Maple | 15 | Pole/Log | 8 | | | | | |
| Black Spruce | 13 | Pole/Log | 8 | | | | | |
| Northern White Cedar | 25 | Log/Pole | 12 | 94 | | | | |
| Balsam Fir | 15 | Pole | 6 | | | | | |
| Red Pine | 2 | Log | 16 | | | | | |

163 4134 - Aspen, Spruce/Fir Poletimber Well 21.7 48 51-80 N/A Seems a poor site but still pretty diverse. There were two slightly different ages of aspen that were separate by 10 years. Stand age is the mean. In most places where aspen is present, it tends to be well spread out and fairly poor form. There are a few good clones of quaking aspen in this stand however. Toward the east there are a few small open patches similar to the upland opening to the south.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------|---------|--------------|---------|
| Quaking Aspen | 50 | Pole | 7 | 48 | Balsam Fir | Medium | Variable | Sapling |
| Balsam Fir | 23 | Pole/Sapling | 6 | | Cherry (spp.) | Low | Variable | Sapling |
| Red Pine | 3 | Log/XLog | 16 | | Quaking Aspen | Low | 10 - 20 feet | Sapling |
| White Spruce | 2 | Log | 14 | | Red Maple | Medium | Variable | Sapling |
| White Pine | 10 | Log/Pole/XLog | 12 | | | | | |
| Bigtooth Aspen | 5 | Pole/Log | 9 | | | | | |
| Jack Pine | 2 | Pole | 7 | 76 | | | | |
| Red Oak | 2 | Log/XLog | 16 | | | | | |
| Black Cherry | 3 | Pole/Sapling | 6 | | | | | |

165 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 16.3 120 111-140 N/A Conifer-dominated slopes and basins. A transitional stand that exists over a gradient. Reasonably productive margins and slopes drop toward increasingly less productive areas that approach a treed bog in some cases.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|--------------|-----|-----|--------------------|---------|-------------|------------|
| Quaking Aspen | 10 | Pole | 8 | | Red Maple | Medium | Variable | Sapling |
| Red Maple | 5 | Pole | 7 | | Alder | Low | 5 - 10 feet | Tall Shrub |
| Balsam Poplar | 3 | Pole | 9 | | Michigan Holly | Medium | 5 - 10 feet | Tall Shrub |
| White Spruce | 10 | Log/Pole | 11 | | | | | |
| Balsam Fir | 10 | Pole/Sapling | 6 | | | | | |
| Paper Birch | 7 | Pole | 6 | | | | | |
| White Pine | 5 | Log/XLog | 16 | | | | | |
| Northern White Cedar | 35 | Pole/Log | 8 | 120 | | | | |



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

171 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 16.4 37 111-140 N/A

Stream course of AJ's Creek. Beaver Dams flood the stand in the west but the east 3/4 is free flowing. Pockets of old cedar surrounded mostly with young aspen.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|---------------|-----|-----|
| Quaking Aspen | 20 | Pole/Sapling | 5 | 37 |
| Balsam Poplar | 5 | Pole/Sapling | 5 | |
| Balsam Fir | 15 | Sapling/Pole | 5 | |
| Tamarack | 5 | Sapling | 4 | |
| White Pine | 20 | Log/XLog/Pole | 12 | |
| Paper Birch | 5 | Sapling | 4 | |
| Red Pine | 5 | Log/XLog | 16 | |
| Red Maple | 10 | Sapling | 5 | |
| Northern White Cedar | 15 | Log/Pole/XLog | 12 | 120 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| Alder | High | 5 - 10 feet | Tall Shrub |