



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54093

Entry Year 2022

Acreage: 926

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2020-05-18

Stand Examiner: Dale Parris

Legal Description:

T30N R08E Sections 32, 33, and 34

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The most prevalent covertypes in the ALPMA for the 2022 Year of Entry (YOE) are the aspen, cedar, lowland conifers, lowland aspen/balsam, and lowland deciduous covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2022 YOE in the ALPMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands and the larger landscape were considered in all management decisions.

Soil and topography:

The topography of Compartment 93 is flat with a few with softly rolling hills in the eastern upland areas of the compartment. Upwards to three-quarters of Compartment 93 soils are very poorly drained, with the rest being somewhat poorly drained to excessively drained.

The lowland very poorly drained soils, that are most prevalent in Compartment 93, are the Tawas, Deford, and Lupton Mucks. Croswell sand (moderately well drained), Au Gres sand (somewhat poorly drained), and Grayling sand (excessively well drained) make up the higher ground soils that are mostly located at the west and east ends of the compartment.

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

Compartment 93 is south of the city of Alpena and borders the south end of Devils Lake. The compartment is mostly bordered by other state land. Where Compartment 93 is not bordered by state land, it is adjacent to large acreage privately owned recreational property.

Unique Natural Features:

In general, Compartment 93 is a maze of upland stands and pockets within vast areas of lowland conifer; most often dominated by cedar.

Devils Lake juts down into Compartment 93 from the north in the form of a channel. This channel leads to the exit mouth of the North Branch of the Devils River which continues out of the compartment to the southeast. The south channel of Devils Lake is bordered by emergent wetland on the west and lowland shrub on the east. Not far below the exit mouth of the North Branch of the Devils River, Berlinski Creek branches off heading out of the compartment to the south.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did have areas of concern within Compartment 93. For further information, contact the SHPO.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 2 species historically being in and/or near Compartment 93 that require consideration when implementing forest management strategies. These species are the Blanding turtle (*Emydoidea blandingii*) and Douglas's hawthorn (*Crataegus douglasii*). Both are state special concerns species.

The Natural Heritage Database had no record of Special Conservation Area (SCA), Ecological Reference Area (ERA), or High Conservation Value Area occurrences in Compartment 93. However, the Squaw Bay Wooded Dune and Swale Complex ERA is located close by to the north. Management in Compartment 93 should not affect this ERA.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of swamp hardwoods wetland complexes as well as small pockets of aspen provide food and cover for multiple species at a variety of age classes. We are working to maintain winter cover areas as well as keep a good age rotation of aspen in this compartment with consideration of adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

T30N-R8E, Sections 32-34, Alpena County

The nearest active sand/gravel pit is approximately 2.5 miles to the northwest. Gravel potential within the compartment appears limited. There is some sand potential, but much of the compartment is covered by wetlands, which could inhibit surface mining. There may be some bedrock limestone potential in this area. There has been some Antrim Shale gas production to the west. The Antrim is thinning to the east here, and there are some indications that upper sections of the formation have been scoured out in this area. Commercial potential for Antrim gas in the compartment is considered low and there is unlikely to be future Antrim well drilling here. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

To the west, Compartment 93 is accessible from Spruce Road in combination with Devils Lake Trail and forest roads. Access to the east end of the compartment is from Piper Road and a forest road from the north. Access to the central most region of the compartment must be accomplished on foot.

Survey Needs:

For the purpose of conducting timber sales, there may be a need for property line surveys along the southern boundary of Compartment 93 at both the west and east ends. Further investigation will be needed to determine the extent to which these surveys are required.

Recreational Facilities and Opportunities:

On the east side of Devils Lake, a small isolated ORV trail system is present that reaches down into the north end of Compartment 93.

Rabbit, grouse, whitetail deer, ducks, geese, squirrels, and black bear hunting opportunities are available in Compartment 93 in season with a valid license. Fishing and wildlife viewing opportunities are also present.

Fire Protection:

In the case of a wildland fire, response to Compartment 93 will be from the Alpena DNR office as well as the Alpena Township Fire Department.

Additional Compartment Information:

Compartment 93 has several natural red pine stands at its west end. The North Branch of the Devils River and Berlinski Creek flow within the eastern boundaries of the Compartment. Oak within the compartment are commonly older than 100 years old.

The following reports from the Inventory are attached:

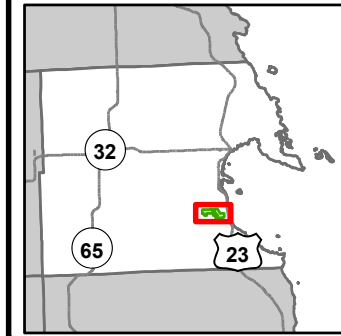
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

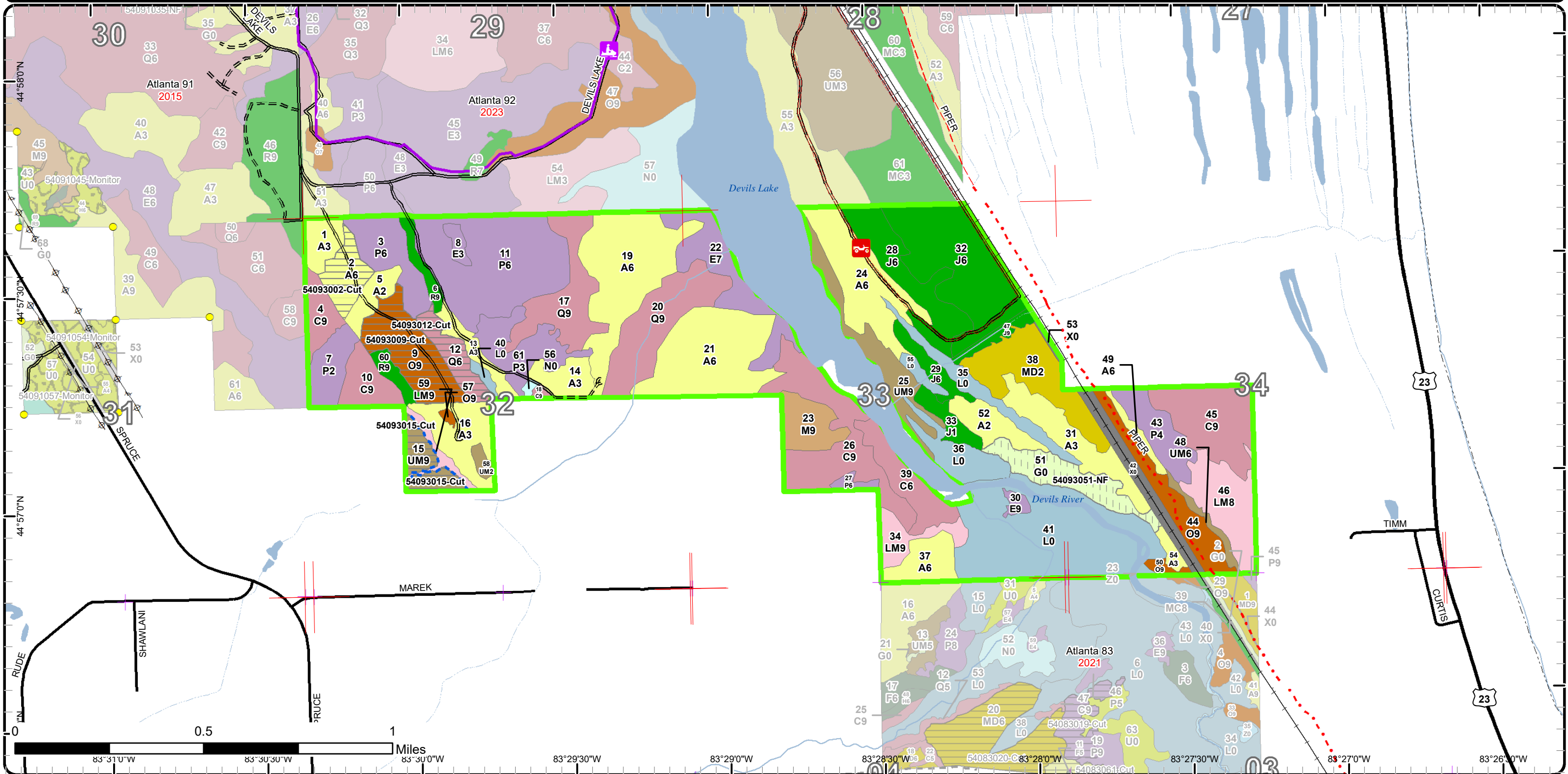
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 93
 T30N, R08E, Sec. 32-34
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOY: 2022
 Acres: 926 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/22/2020
 Map Phase: Post-Review

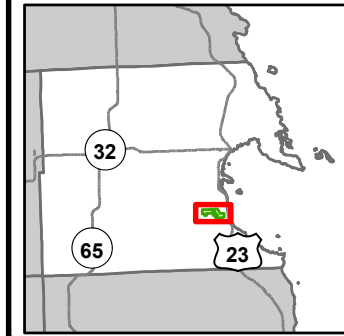


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Active Railroads
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



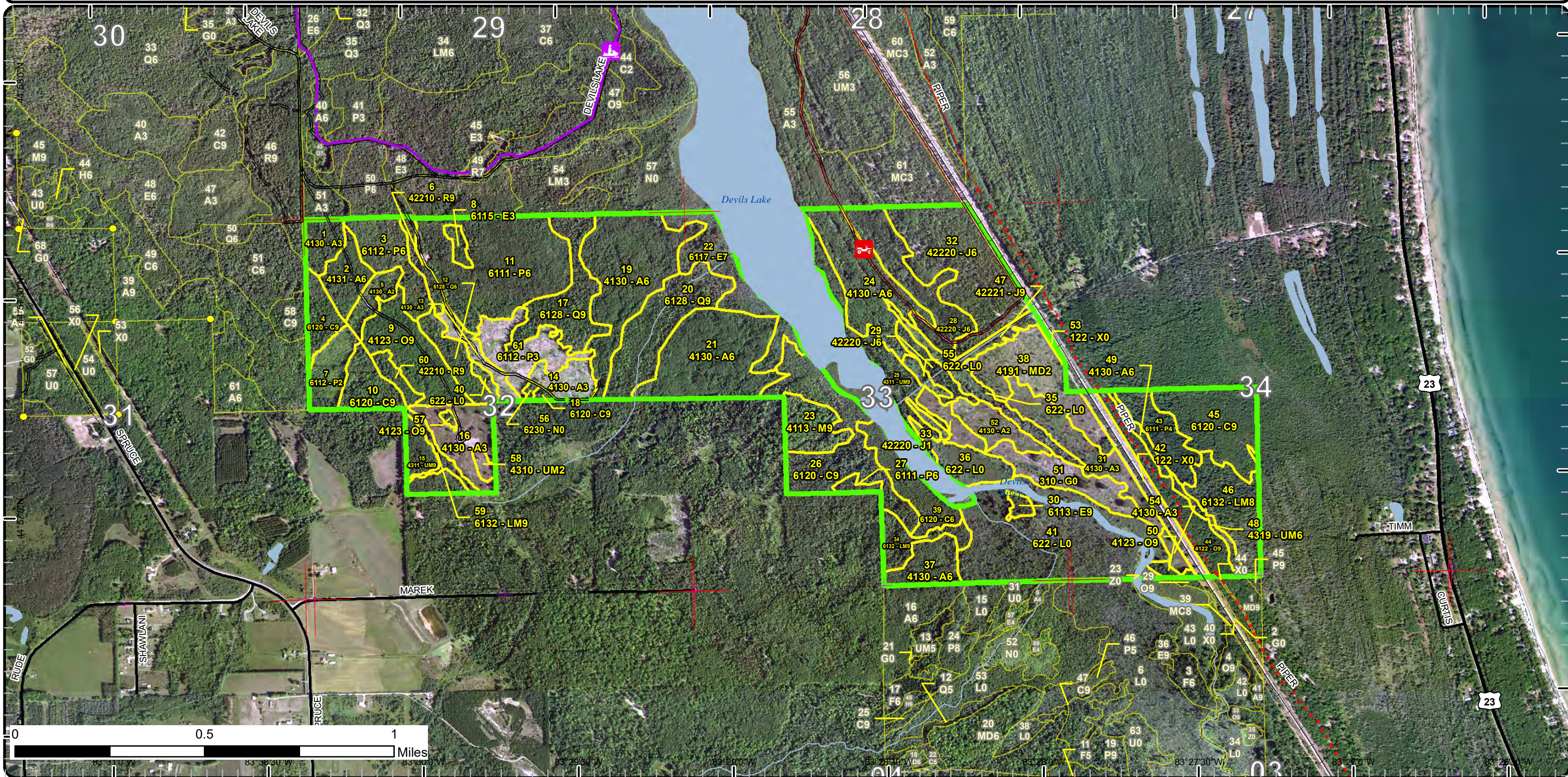
Stand Boundary Map

Compartment: 93
 T30N, R08E, Sec. 32-34
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
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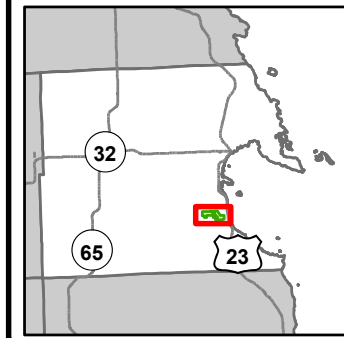
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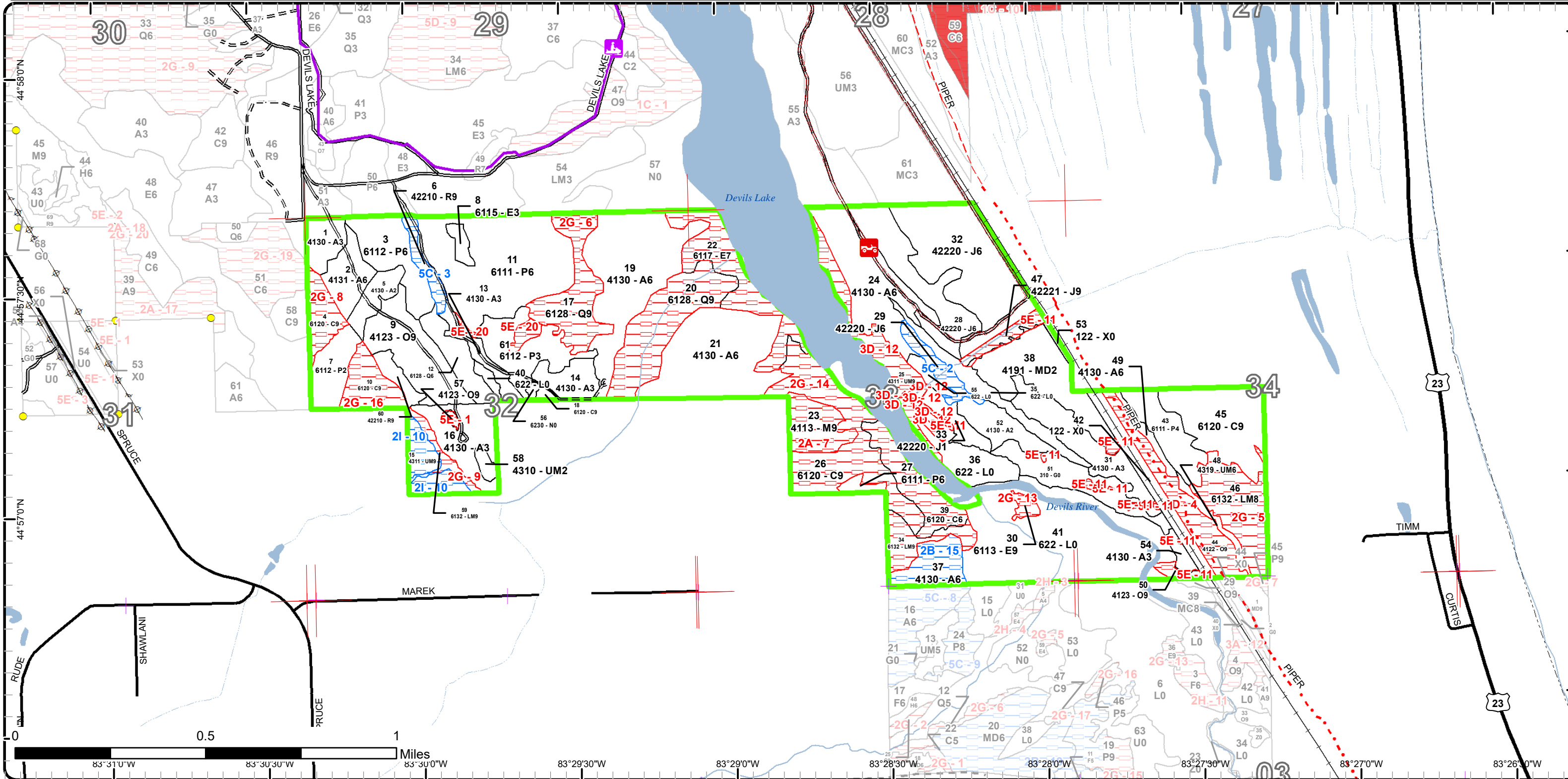


Special Conservation Areas

Compartment: 93
 T30N, R08E, Sec. 32-34
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2022
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- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 93

Year of Entry 2022

Dale Parris : Examiner



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|-----------------------------|------------|------------|-----------|-----------|------------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-------------|------------|
| Aspen | 0 | 66 | 7 | 8 | 89 | 11 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 222 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 28 | 0 | 20 | 38 | 0 | 0 | 0 | 0 | 102 |
| Herbaceous Openland | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Jack Pine | 0 | 6 | 0 | 0 | 0 | 71 | 7 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| Lowland Aspen/Balsam Poplar | 0 | 18 | 12 | 57 | 14 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 118 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 64 |
| Lowland Deciduous | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Lowland Shrub | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| Marsh | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Mixed Upland Deciduous | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 45 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Upland Mixed Forest | 0 | 2 | 0 | 0 | 4 | 0 | 11 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| Urban | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 134 | 119 | 22 | 65 | 107 | 99 | 64 | 17 | 0 | 45 | 85 | 32 | 45 | 92 | 0 | 0 | 0 | 0 | 921 |



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 93
Total Compartment Acres: 926

Commercial Harvest - 45
Harvests with Site Condition - 11
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 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Lowland Conifers | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Oak | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Upland Mixed Forest | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|-----------|-----------|----------|----------|----------|-----------|------------|-----------|-----------------|-------------|
| Current | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 74 |
| Next Step | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 0 | 0 | 56 |
| Total | 56 | 0 | 0 | 0 | 0 | 0 | 56 | 18 | 0 | 130 |



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

Approved Treatments:

| | | | | | | | | | | | |
|--|---------------------|------|-------------------|-----------------|----|-------------|---------|-------------------------|-------------|-----------|----|
| 2 | 54093002-Cut | 10.8 | 4131 - Aspen, Oak | Poletimber Well | 43 | Unspecified | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Place retention in pocket(s) around large crown mast producing oak while ensuring that the retention is representative of the larger stand. Protect pine (and oak regeneration if present) regeneration to promote future stand diversity. Include the grouse specific 5.2.4.7 spec. Include specs to protect the snowmobile trail and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, oak, red maple, balsam fir, oak, and/or spruce.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p> | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|---------------------|------|----------------|----------------|-----|------|---------|-------------------------|-------------------------------------|-----------|----|
| 9 | 54093009-Cut | 24.3 | 4123 - Red Oak | Sawtimber Well | 110 | 1-50 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Mark out 4 half acre retention pockets of oak and other stand representative species for area diversity and continued wildlife mast output. Include specs to protect the snowmobile trail and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of oak, aspen, pine, or other native species.</p> <p><u>Other Comment:</u> Check with HAL to make sure that any archaeological interests that may be present are protected.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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 |
|---|-------|--|-----------------|-----------|----------|----------------|---------------------------------|----------------------------|---------------|-------------|
| 12 54093012-Cut | 10.3 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 62 | 81-110 | Harvest | Clearcut with Retention | 613 - Lowland Mixed Forest | Even-Aged | No |
| <p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Include the hare specific 5.2.4.7 spec.</p> <p>Include specs to protect the snowmobile trail and its users.</p> <p>It is acceptable if harvest acres are substantially less due to ground that is too wet to harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, paper birch, red maple, and/or other native species.</p> <p><u>Other Comment:</u> Check with HAL to make sure that any archaeological interests that may be present are protected.</p> <p>If this stand is not harvested with the stand to the west there will be much windthrow in this stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p> | | | | | | | | | | |
| 15 54093015-Cut | 10.6 | 4311 - Pine, Aspen Mix | Sawtimber Well | 52 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Two-Aged | No |
| <p><u>Prescription</u> Clear-cut with single tree retention.</p> <p><u>Specs:</u></p> <p>Implement stand representative single tree retention not to exceed 10 percent of the stand. Focus the single tree retention on large super canopy red pine for vertical forest structure diversity. Single tree retention should not suppress the regenerating forest.</p> <p>Do not cut and cedar or hemlock.</p> <p>Protect all pine regeneration for promoting future stand diversity.</p> <p>Include grouse spec 5.2.4.4 that requires full trees be left on the ground.</p> <p>Include specs to protect the snowmobile trail and its users.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, red maple, white pine, and/or other native tree species.</p> <p><u>Other Comment:</u> Crane mats or possibly a bridge will be needed for the crossing of the drainage that parallels the east edge of the harvest.</p> <p>If this is a defined stream, a permit will be needed to cross it.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p> | | | | | | | | | | |
| 51 54093051-NF | 17.9 | 310 - Herbaceous Openland | Nonstocked | | Immature | 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, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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 |
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

Total Treatment Acreage Proposed: 73.9

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 93
Year of Entry: 2022



Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | | | | |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|----|----|----|-----|----|----|----|
| | | With Condition | Not Available | | 2B | 2I | 5C | 2A | 2G | 3D | 5E | |
| 223 | 210 | 12 | 1 | Aspen | 12 | | 0 | | | | | 1 |
| 103 | 29 | 0 | 74 | Cedar | | | | | 74 | | | |
| 18 | 17 | 0 | 1 | Herbaceous Openland | | | | | | | | 1 |
| 88 | 77 | 7 | 4 | Jack Pine | | | 7 | | | | | 4 |
| 119 | 119 | 0 | 0 | Lowland Aspen/Balsam Poplar | | | | | | | | 0 |
| 64 | 10 | 0 | 54 | Lowland Conifers | | | | | 51 | | | 3 |
| 29 | 3 | 0 | 26 | Lowland Deciduous | | | | | 26 | | | |
| 36 | 0 | 0 | 36 | Lowland Mixed Forest | | | | | 36 | | | |
| 102 | 102 | 0 | 0 | Lowland Shrub | | | | | | | | 0 |
| 1 | 1 | 0 | 0 | Marsh | | | | | | | | |
| 27 | 26 | 0 | 1 | Mixed Upland Deciduous | | | | | | | | 1 |
| 13 | 0 | 0 | 13 | Northern Hardwood | | | | 13 | | | | |
| 45 | 25 | 0 | 21 | Oak | | | | | | 18 | | 3 |
| 9 | 4 | 5 | 0 | Red Pine | | | 5 | | | | | |
| 37 | 6 | 11 | 20 | Upland Mixed Forest | | 11 | | | | 19 | | 1 |
| 13 | 13 | 0 | 0 | Urban | | | | | | | | |
| 926 | 641 | 34 | 251 | Total Forested Acres | 12 | 11 | 12 | 13 | 187 | 37 | | 14 |
| | 69% | 4% | 27% | Relative Percent | | | | | | | | |

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

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|--|---------------------------------|--|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: This is long term retention from the surrounding stand. Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. | | | | | | | |
| 2 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 93
Year of Entry: 2022



| | | | | | | | |
|---|--------------------|---|----|-------------|-------------|-------------|-------------|
| 3 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 3D: Recreational / Scenic values | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 23 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 22 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Unavailable | 2A: Adjacent landowner denied access | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Access was checked with the private landowner to the west during the 2012 YOE and would need to be revisited. | | | | | | | |
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 93
Year of Entry: 2022



| | | | | | | | |
|---|--------------------|--|-----|-------------|-------------|-------------|-------------|
| 9 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Available | 2I: Survey needed | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: In order to harvest this stand, further investigation of records and on the ground would need to be completed to determine the need for a property corner survey. | | | | | | | |
| 11 | Unavailable | 5E: Long-Term Retention | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: This stand is long term retention for the area harvest. Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. | | | | | | | |
| 12 | Unavailable | 3D: Recreational / Scenic values | 19 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Hold for age class diversity and visual value. | | | | | | | |
| 13 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 14 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 117 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 93
Year of Entry: 2022



| | | | | | | | |
|---|--------------------|--|----|-------------------|-------------|-------------|-------------|
| 15 | Available | 2B: Unknown if access through adjacent landowner(s) is possible | 12 | 2I: Survey needed | Unspecified | Unspecified | Unspecified |
| Comments: The survey corner at the SW corner of the stand is present. The survey corner 1/4 mile north of this southwest corner could not be found during inventory. In order to harvest this stand, further investigation of records and on the ground would need to be completed to determine the need for a property corner survey. | | | | | | | |
| 16 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 20 | Unavailable | 5E: Long-Term Retention | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: This is long term retention from Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. | | | | | | | |

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 | 4130 - Aspen | Sapling Well | 8.0 | 27 | Immature | N/A | <p>This stand was harvested in September of 1993 as part of Timber Sale Name: Sawdust Seed Tree; Timber Sale Number: 54-048-92-01. All trees were harvested with the exception of 9.4 BA of red pine, jack pine, and oak.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens during the 2012 YOE Inventory.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 5 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 85 | Sapling/Pole | 4 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 6 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 2 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 4131 - Aspen, Oak | Poletimber Well | 10.8 | 43 | Unspecified | N/A | <p>According to harvest records, all aspen, red maple, and paper birch with a merchantable stick were harvested in 1963. The 2012 inventory did not reflect this age. All oak with a merchantable stick were harvested, except one large well crowned oak was retained every 100 feet.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens during the 2012 YOE Inventory.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 45 | Log | 15 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 45 | Pole/Log | 9 | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 8 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 6112 - Lowland Aspen | Poletimber Well | 17.2 | 47 | Unspecified | N/A | <p>2012 YOE Inventory Comments: drainage along east edge of stand.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens on 1/21/2010 during the 2012 YOE Inventory.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 40 | Pole/Log | 8 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 30 | Pole/Log | 8 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 6120 - Lowland Cedar | Sawtimber Well | 9.0 | 115 | 141-170 | N/A | <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens on 1/11/2010 during the 2012 YOE Inventory.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 85 | Log/Pole | 11 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|--------------------|--------------------------|----------------|--------------|-----------|-------------|--------------|---|--|
| 5 | 4130 - Aspen | Sapling Medium | 7.2 | 12 | Immature | N/A | <p>The harvest of this stand was a tornado salvage completed in 2008. All merchantable trees were harvested with the exception of undamaged red pine, white pine, oak, hemlock, and cedar as part of Timber Sale Name: Twisted Devil; Timber Sale Number: 54-006-08-01. The stand has scattered mature pine and oak that were retained during the salvage harvest.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens during the 2012 YOE Inventory.</p> | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Maple | | 2 | Sapling | 1 | 12 | | | |
| Bigtooth Aspen | | 98 | Sapling | 2 | 12 | | | |
| 6 | 42210 - Natural Red Pine | Sawtimber Well | 5.0 | 83 | 81-110 | N/A | <p>There is varying densities of red pine present throughout the stand.</p> | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Oak | | 15 | Log/Pole | 11 | | | | |
| Red Pine | | 60 | Log/XLog | 13 | 83 | | | |
| Red Maple | | 11 | Pole/Log | 8 | | | | |
| Quaking Aspen | | 8 | Log/Pole | 12 | | | | |
| Jack Pine | | 1 | Log/Pole | 10 | | | | |
| Balsam Fir | | 5 | Pole/Sapling | 6 | | | | |
| Sub-Canopy Species | | Density | Avg. Height | Size | | | | |
| Balsam Fir | | Medium | Variable | Sapling | | | | |
| White Pine | | Low | Variable | Sapling | | | | |
| Red Pine | | Low | Variable | Sapling | | | | |
| Jack Pine | | Low | Variable | Sapling | | | | |
| 7 | 6112 - Lowland Aspen | Sapling Medium | 11.7 | 12 | Unspecified | N/A | <p>The harvest of this stand was a tornado salvage completed in 2008. All merchantable trees were harvested with the exception of undamaged red pine, white pine, oak, hemlock, and cedar as part of Timber Sale Name: Twisted Devil; Timber Sale Number: 54-006-08-01. The stand has scattered mature pine and oak that were retained during the salvage harvest.</p> <p>This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order.</p> <p>Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens during the 2012 YOE Inventory.</p> | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Maple | | 2 | Sapling | 1 | 12 | | | |
| Quaking Aspen | | 98 | Sapling | 2 | 12 | | | |
| 8 | 6115 - Lowland Ash | Sapling Well | 2.7 | 16 | 1-50 | N/A | <p>This stand is dominated by black ash that reach about 1 inch in diameter and then die off. Pockets of balsam fir are present.</p> | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Black Ash | | 90 | Sapling | 1 | 16 | | | |
| Balsam Fir | | 10 | Pole/Sapling | 6 | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|------------|------------|----------|--------------|--|----------------|----|--------------|----|-----|----------------|----|--------------|----|----|----------------------|----|--------------|----|-----|----------------------|----|--------------|----|-----|---|---|--------------------|---------|-------------|--|------------|--------------------|--------------|-------------|------------|-----------|-------------|------------|---------|------------|-----|----------|---------|
| 9 | 4123 - Red Oak | Sawtimber Well | 24.3 | 110 | 1-50 | N/A | According to records, 30 acres were marked to cut aspen, paper birch, red oak, balsam fir, and paper birch in 1963. The aspen in this stand is mostly focused to the southwest. These are medium to high quality oak. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 60 | Log | 15 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Log/Pole | 10 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 15 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 6120 - Lowland Cedar | Sawtimber Well | 11.4 | 115 | 141-170 | N/A | 2012 YOE Inventory Comments: lots of blow down. This stand was not inventoried on the ground during the 2022 YOE Inventory due to the COVID-19 "Stay Home Stay Safe" executive order. Estimates such as canopy closure, were made based on the information available from the 2012 YOE inventory, imagery, information volunteered from colleagues, etc. Canopy species DBH sizes were updated based on estimated 10-year growth. The current inventory data is based off the information collected by Cody Stevens during the 2012 YOE Inventory. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>8</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>90</td> <td>Log/Pole</td> <td>11</td> <td>115</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Quaking Aspen | 8 | Log/Pole | 13 | | Black Spruce | 2 | Log | 14 | | Northern White Cedar | 90 | Log/Pole | 11 | 115 | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 8 | Log/Pole | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 2 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 90 | Log/Pole | 11 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 6111 - Lowland Balsam Poplar | Poletimber Well | 55.0 | 27 | 1-50 | N/A | Along the western edge and centrally located, there is a pocket of balsam fir, white spruce, and black spruce that is 2 acres in size. The SW 19 acres of this stand was harvested in April of 1996 as part of Timber Sale Name: Devil's Lake Block; Timber Sale Number: 54-061-92-01. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>50</td> <td>Pole/Sapling</td> <td>6</td> <td>27</td> </tr> <tr> <td>Quaking Aspen</td> <td>38</td> <td>Pole/Sapling</td> <td>6</td> <td>27</td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>1</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>1</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Balsam Poplar | 50 | Pole/Sapling | 6 | 27 | Quaking Aspen | 38 | Pole/Sapling | 6 | 27 | Paper Birch | 10 | Pole/Sapling | 5 | | Black Spruce | 1 | Sapling/Pole | 4 | | White Spruce | 1 | Pole/Sapling | 5 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Ash</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Ash | Medium | Variable | Sapling | Balsam Fir | Low | Variable | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | 50 | Pole/Sapling | 6 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 38 | Pole/Sapling | 6 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 1 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 1 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Ash | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 10.3 | 62 | 81-110 | N/A | The northern white cedar and the aspen occur in pockets. The age of this stand is highly variable throughout. This stand is somewhat a combination of inclusion pockets dominated by aspen, cedar, and balsam fir. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>40</td> <td>Pole</td> <td>8</td> <td>62</td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Log</td> <td>14</td> <td>124</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Maple | 10 | Log/Pole | 11 | | Quaking Aspen | 20 | Pole/Log | 9 | | Balsam Fir | 40 | Pole | 8 | 62 | Northern White Cedar | 25 | Log | 14 | 124 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | Medium | 10 - 20 feet | Sapling | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 20 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 40 | Pole | 8 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 25 | Log | 14 | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 4130 - Aspen | Sapling Well | 7.0 | 4 | Immature | N/A | This stand was harvested in 2016 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. All trees were harvested with the exception of 1-3 oak and pine per acre. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Bigtooth Aspen</td> <td>71</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Red Oak</td> <td>12</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Bigtooth Aspen | 71 | Sapling | 1 | 4 | Red Oak | 12 | Sapling | 1 | 4 | Red Pine | 5 | Log | 13 | | Red Oak | 5 | Log | 14 | | Red Maple | 5 | Sapling | 1 | | Balsam Fir | 2 | Sapling | 2 | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 71 | Sapling | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 12 | Sapling | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 5 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 5 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 2 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|-----------------------|--|----------------|-------------------|------------|------------|---------------------------|--|--|
| 14 | 4130 - Aspen | Sapling Well | 8.7 | 4 | Immature | N/A | This stand was harvested in 2016 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. All trees were harvested with the exception of 1-3 oak and pine per acre. This portion of the harvest was higher ground and was roughly mapped out from the lower ground portions of the harvest to the north and west. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Quaking Aspen | | 45 | Sapling | 1 | 4 | Tag Alder | | |
| Bigtooth Aspen | | 50 | Sapling | 1 | 4 | Low | | |
| Balsam Fir | | 5 | Sapling | 1 | | 5 - 10 feet | | |
| | | | | | | Tall Shrub | | |
| 15 | 4311 - Pine, Aspen Mix | Sawtimber Well | 10.6 | 52 | 81-110 | N/A | According to harvest records all aspen, paper birch, and red maple were harvested from this stand in 1963. Aging an aspen indicates more like 1968. A 17" DBH red pine aged at 80 years and a 21" red pine aged at 102 years in March of 2020. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 10 | Log/Pole | 10 | | Balsam Fir | | |
| Bigtooth Aspen | | 45 | Log/Pole | 10 | 52 | Medium | | |
| Red Pine | | 35 | XLog/Log | 21 | 102 | Low | | |
| White Pine | | 7 | Log | 16 | | 5 - 10 feet | | |
| Balsam Fir | | 3 | Pole | 8 | | Sapling | | |
| 16 | 4130 - Aspen | Sapling Well | 17.1 | 6 | Immature | N/A | This stand was harvested in the fall of 2014 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. All trees were harvested with the exception of 1-3 oak and pine per acre. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Bigtooth Aspen | | 90 | Sapling | 1 | 6 | | | |
| Red Oak | | 6 | Sapling | 1 | | | | |
| White Pine | | 2 | Sapling | 1 | | | | |
| Red Pine | | 2 | Sapling | 1 | | | | |
| 17 | 6128 - Lowland Coniferous, Mixed Deciduous | Sawtimber Well | 24.1 | 124 | 81-110 | N/A | This stand is too wet to harvest. The northern white cedar and white spruce tend to occur in pockets. The white spruce are most dominate in the southwest portion of the stand. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Quaking Aspen | | 20 | Log | 15 | | Balsam Fir | | |
| Balsam Fir | | 10 | Log/Pole | 10 | | High | | |
| White Spruce | | 15 | Log | 12 | | Low | | |
| Northern White Cedar | | 45 | Log/Pole | 11 | 124 | 5 - 10 feet | | |
| Red Maple | | 5 | Log | 14 | | Tall Shrub | | |
| 18 | 6120 - Lowland Cedar | Sawtimber Well | 1.0 | 124 | 81-110 | N/A | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Northern White Cedar | | 85 | Log/Pole | 11 | 124 | Balsam Fir | | |
| Red Maple | | 5 | Log | 14 | | Low | | |
| Quaking Aspen | | 5 | Log | 14 | | 10 - 20 feet | | |
| Paper Birch | | 5 | Pole | 8 | | Sapling | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------|------------|------------|----------|--------------|---|----|------------------|----|----|---------------|----|--------------|---|----|----------------------|----|--------------|----|-----|---|----|--------------------|---------|-------------|------------------------|------------------|--------------|-------------|------------|--|-----|--------------------|---------|-------------|---|-------------|--------------------|--------------|-------------|---|------------|--------------------|--------------|-------------|------|-----------|-----|-------------|---------|------------|------|--------------|---------|
| 19 | 4130 - Aspen | Poletimber Well | 44.1 | 36 | 51-80 | N/A | There veins of lowland and lowland pockets throughout the stand. This stand was harvested from 1983 to 1987. All trees with a merchantable stick were to be harvested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 20 | Pole/Sapling | 6 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 54 | Pole/Sapling | 6 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 8 | Pole/Sapling | 5 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 1 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 2 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 6128 - Lowland Coniferous, Mixed Deciduous | Sawtimber Well | 29.8 | 123 | 81-110 | N/A | Precore Creek runs through the center for the length of the stand. Within the stand, Precore Creek can be anywhere from a couple feet wide in the south to 15 feet wide to the north. There is an old grown over temporary management access road at the south end of the stand that was used to access timber to the east. There is no culvert or bridge over Precore Creek where the old access runs through. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 33 | Sapling/Pole/Log | 3 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 35 | Log | 14 | 123 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 2 | Log/Pole/Sap | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Ash | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 4130 - Aspen | Poletimber Well | 41.8 | 34 | 51-80 | N/A | This stand was harvested from 1983 to 1987. All trees with a merchantable stick were harvested. There are some areas of low ground around the edge of the stand. Access is from the SW corner across the adjacent cedar stand and Precore Creek. Some older aspen was lumped into the stand in the SW corner. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>Quaking Aspen</td><td>18</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>65</td><td>Pole/Sapling</td><td>6</td><td>34</td></tr> <tr><td>Balsam Fir</td><td>10</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>1</td><td>Pole/Sapling</td><td>5</td><td></td></tr> <tr><td>White Spruce</td><td>1</td><td>Pole/Sapling</td><td>5</td><td></td></tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 5 | Sapling/Pole | 4 | | Quaking Aspen | 18 | Pole/Sapling | 6 | | Bigtooth Aspen | 65 | Pole/Sapling | 6 | 34 | Balsam Fir | 10 | Pole/Sapling | 5 | | Black/Red (Hybrid) Oak | 1 | Pole/Sapling | 5 | | White Spruce | 1 | Pole/Sapling | 5 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | Medium | 10 - 20 feet | Sapling | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 18 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 65 | Pole/Sapling | 6 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 1 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Spruce | 1 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Poor | 24.0 | 95 | 1-50 | N/A | This stand is wet throughout. There is lowland shrub throughout the stand. This is a borderline lowland shrub stand. This stand is too wet to harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>55</td><td>Log</td><td>14</td><td>95</td></tr> <tr><td>Balsam Poplar</td><td>10</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Balsam Fir</td><td>20</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 55 | Log | 14 | 95 | Balsam Poplar | 10 | Pole/Log | 8 | | Balsam Fir | 20 | Pole/Sapling | 6 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Glossy Buckthorn</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Glossy Buckthorn | Medium | 5 - 10 feet | Tall Shrub | Balsam Fir | Low | Variable | Sapling | Tag Alder | High | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 55 | Log | 14 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glossy Buckthorn | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | High | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|-----------------------|-------------------------|-----------------|-------------------|------------|------------|---------------------------|---|--|
| 23 | 4113 - R.Maple, Conifer | Sawtimber Well | 12.5 | 91 | 81-110 | N/A | There is some nice upland red maple in this stand with 6-8 sticks. The degree to which there is rot in the red maple is unknown. One very tall and large diameter beech tree sits centrally in the stand. Hemlock are scattered throughout the stand. The are areas of low ground along the southern edge where the stand begins transitioning into the cedar to the south. There is only foot access to this stand. Due to the surrounding lowland areas, access would need to be granted through the private land to the east. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 60 | Log | 12 | 91 | Balsam Fir | | |
| Beech | | 1 | Log/Pole | 12 | | Full | | |
| Paper Birch | | 5 | Log/Pole | 10 | | Variable | | |
| Bigtooth Aspen | | 2 | Log/Pole | 10 | | Sapling | | |
| Balsam Fir | | 26 | Pole/Log | 8 | | | | |
| Hemlock | | 2 | Log | 12 | | | | |
| Northern White Cedar | | 4 | Log | 12 | | | | |
| | | | | | | | | |
| 24 | 4130 - Aspen | Poletimber Well | 30.8 | 52 | 81-110 | N/A | There are a few scattered pockets of low ground. There is a red pine cohort that is of legacy stature that was retained during the previous harvests that should be retained in future harvests. This is a nice quality stand of aspen. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Oak | | 5 | Log | 13 | | Red Maple | | |
| Bigtooth Aspen | | 71 | Pole/Log | 8 | 52 | Medium | | |
| Red Pine | | 3 | XLog/Log | 20 | | Trace | | |
| Red Maple | | 1 | Log/Pole | 12 | | Variable | | |
| Quaking Aspen | | 20 | Pole/Log | 8 | 52 | Trace | | |
| | | | | | | Variable | | |
| | | | | | | Sapling | | |
| | | | | | | Sapling | | |
| 25 | 4311 - Pine, Aspen Mix | Sawtimber Well | 20.3 | 87 | 111-140 | N/A | This stand borders the North Branch of the Devils River. The northern half of this stand alternates between pockets dominated by red pine and pockets dominated by bigtooth aspen. Cedar are present in wet areas in the southern half of the stand. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Oak | | 10 | Log | 13 | | White Pine | | |
| Bigtooth Aspen | | 24 | Log | 16 | | Low | | |
| Red Pine | | 33 | XLog/Log | 19 | 87 | Full | | |
| Jack Pine | | 15 | Pole/Log | 9 | 87 | < 5 feet | | |
| Red Maple | | 10 | Log | 12 | | Tall Shrub | | |
| White Pine | | 1 | XLog | 30 | | Sapling | | |
| Northern White Cedar | | 5 | Log/Pole | 12 | | | | |
| Balsam Fir | | 1 | Pole | 6 | | | | |
| 26 | 6120 - Lowland Cedar | Sawtimber Well | 37.3 | 126 | 141-170 | N/A | The majority of this stand is slightly higher ground than the land to the southeast, but it is still lowland. The lowest ground in the northeastern portion of the stand can be drawn out using the canopy density line of change that can be seen in some of the CIR imagery. The average diameter of the cedar in this stand is significantly greater than that of the cedar to the southeast. This stand is too wet to harvest and it lacks access. In the southeast, private property signs are 100 plus feet too far east onto state land. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Paper Birch | | 6 | Log/Pole | 10 | | Balsam Fir | | |
| Red Maple | | 5 | Log | 15 | | Medium | | |
| Northern White Cedar | | 78 | Log/Pole | 10 | 126 | Variable | | |
| Balsam Poplar | | 5 | Log | 12 | | Sapling | | |
| Quaking Aspen | | 5 | XLog/Log | 19 | | | | |
| White Spruce | | 1 | Log/Pole | 11 | | | | |
| | | | | | | | | |
| | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|------------------------|------------------------------|-----------------|-------------------|------------|------------|---------------------------|---|--|
| 27 | 6111 - Lowland Balsam Poplar | Poletimber Well | 2.3 | 29 | 1-50 | N/A | This area looks to have been harvested. It was cut north to the bulldozer line that can be seen running east-west in the imagery. The bulldozer line is significantly further north than the property line. The northwest portion of this stand is a low ground coniferous inclusion pocket that mostly looks to be the same age as the greater stand; may be a windthrow pocket. Private property signs are 100 plus feet onto state land. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Balsam Poplar | | 55 | Pole/Sapling | 5 | 29 | Balsam Fir | | |
| Balsam Fir | | 15 | Pole/Sapling | 5 | | Tag Alder | | |
| Quaking Aspen | | 30 | Pole/Sapling | 5 | 29 | Tall Shrub | | |
| 28 | 42220 - Natural Jack Pine | Poletimber Well | 24.4 | 41 | 51-80 | N/A | This stand is more dense with jack pine than the more open grown jack pine/oak stand adjacent to the east. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Oak | | 5 | Pole/Sapling | 7 | | Red Pine | | |
| Bigtooth Aspen | | 5 | Pole | 7 | | Trace | | |
| Jack Pine | | 86 | Pole | 6 | 41 | Variable | | |
| Red Pine | | 3 | Pole/Log | 8 | | Sapling | | |
| White Pine | | 1 | Pole | 6 | | | | |
| 29 | 42220 - Natural Jack Pine | Poletimber Well | 6.6 | 58 | 51-80 | N/A | Huckleberry fills the forest floor. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Quaking Aspen | | 23 | Pole | 7 | | Balsam Fir | | |
| Red Pine | | 3 | Log/XLog | 15 | | Low | | |
| Jack Pine | | 70 | Pole/Log | 8 | 58 | Low | | |
| Balsam Fir | | 1 | Pole/Log | 8 | | High | | |
| White Pine | | 1 | Log | 12 | | < 5 feet | | |
| Red Maple | | 1 | Log/Pole | 10 | | Tall Shrub | | |
| Paper Birch | | 1 | Pole/Log | 8 | | | | |
| 30 | 6113 - Lowland Maple | Sawtimber Well | 2.2 | 65 | 81-110 | N/A | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Red Maple | | 100 | Log | 12 | 65 | | | |
| 31 | 4130 - Aspen | Sapling Well | 19.4 | 6 | Immature | N/A | This stand was harvested in December of 2013 as part of Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. All trees were harvested with the exception of 1-3 oak, red or white pine per acre. Scattered large sapling to small pole sized hybrid oak, white pine, red pine, and balsam fir were retained in a scattered pattern throughout the stand. The stand boundaries were rearranged based on the regeneration that followed the harvest. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | |
| Black/Red (Hybrid) Oak | | 10 | Sapling | 1 | 6 | | | |
| Balsam Fir | | 3 | Sapling | 1 | | | | |
| Bigtooth Aspen | | 67 | Sapling | 1 | 6 | | | |
| Quaking Aspen | | 20 | Sapling | 1 | 6 | | | |
| 32 | 42220 - Natural Jack Pine | Poletimber Well | 46.1 | 44 | 1-50 | N/A | There is a 10-12 inch DBH hybrid oak cohort throughout the stand that tends to occur in pockets with larger diameter jack pine indicating that these are old retention areas. There are larger diameter jack pine (10-12" DBH) dispersed throughout the stand. There is a 0.5 acre and a 1.0 acre pocket of aspen in the NW portion of the stand that can be managed with the jack pine. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Oak | | 20 | Pole | 7 | | Jack Pine | | |
| Bigtooth Aspen | | 5 | Pole | 6 | | Low | | |
| Jack Pine | | 75 | Pole/Sapling | 6 | 44 | Variable | | |
| | | | | | | Sapling | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|------------|------------|----------|--------------|--|------------------------|----|--------------|----|---|----------------|----|----------|----|----|----------------------|----|--------------|----|----|--|----|--------------------|---------|-------------|----------------------|------------|----------|-------------|----------|---|--|--------------------|---------|-------------|------|------------|-----|----------|---------|-----------|-----|-------------|------------|--|--|--|--|
| 33 | 42220 - Natural Jack Pine | Sapling Poor | 6.3 | 6 | Immature | N/A | This stand was harvested in February of 2014 as part of Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. Acceptable regen is any mix of hwd, apsen and oak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 15 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 78 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 2 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 6132 - Mixed Lowland Forest with Cedar | Sawtimber Well | 9.4 | 104 | 81-110 | N/A | There is a drainage running through the center of this stand. Large cedar line the drainage. The northwest portion of this stand is harvestable but access would have to come from the private land to the west. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | 15 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 35 | Log/Pole | 11 | 104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 622 - Lowland Shrub | Nonstocked | 11.6 | | | No | This stand appears to be dominated by glossy buckthorn. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 622 - Lowland Shrub | Nonstocked | 13.2 | | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 4130 - Aspen | Poletimber Well | 11.6 | 52 | 81-110 | N/A | This is a relatively healthy stand of aspen. For harvesting purposes, this stand is inaccessible from state land. Private land access permission would need to be granted for a harvest to take place. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>9</td> <td>52</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Maple | 5 | Pole | 7 | | Quaking Aspen | 85 | Pole | 9 | 52 | Balsam Fir | 10 | Pole/Sapling | 6 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 85 | Pole | 9 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 10 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 4191 - Mixed Upland Deciduous with Conifer | Sapling Medium | 27.3 | 6 | Immature | N/A | This stand was harvested in December of 2013 as part of Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. All trees were harvested with the exception of 1-3 oak per acre. The stand boundaries were rearranged based on the regeneration that followed the harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Black/Red (Hybrid) Oak</td> <td>55</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Jack Pine</td> <td>33</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Black/Red (Hybrid) Oak | 55 | Sapling | 1 | 6 | Bigtooth Aspen | 10 | Sapling | 1 | 6 | Jack Pine | 33 | Sapling | 1 | 6 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sedges</td> <td>High</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Sedges | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 55 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 33 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sedges | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 6120 - Lowland Cedar | Poletimber Well | 16.3 | 87 | 81-110 | N/A | The soil in this cedar stand is much more saturated than that to the west. The cedar are stunted due to the highly saturated soil. This stand is too wet to harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>1</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>94</td> <td>Pole</td> <td>6</td> <td>87</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Paper Birch | 5 | Pole/Sapling | 5 | | Tamarack | 1 | Log/Pole | 10 | | Northern White Cedar | 94 | Pole | 6 | 87 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 1 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 94 | Pole | 6 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 622 - Lowland Shrub | Nonstocked | 1.8 | | Immature | No | This a combination of lowland shrub and emergent wetland. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

41 622 - Lowland Shrub Nonstocked 72.3 No This stand has scattered pockets and varying densities of deciduous trees, but for all intensive management purposes this stand is lowland shrub.

42 122 - Road/Parking Lot Nonstocked 12.1 Unspecified No This is Piper Road and a paralleling railroad.

43 6111 - Lowland Balsam Poplar Poletimber Poor 14.2 37 1-50 N/A This stand of is a diverse mix of species with pine being the most prevalent in the NW. Pockets of lowland shrub are present.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|--------------------|---------|-------------|------------|
| Red Maple | 5 | Pole | 7 | | Balsam Fir | Low | Variable | Sapling |
| Balsam Poplar | 50 | Pole | 7 | 37 | Glossy Buckthorn | Medium | 5 - 10 feet | Tall Shrub |
| Balsam Fir | 19 | Log/Pole | 10 | | Tag Alder | Low | 5 - 10 feet | Tall Shrub |
| Red Pine | 7 | Pole | 8 | | | | | |
| Paper Birch | 15 | Pole/Log | 8 | | | | | |
| Red Oak | 2 | Log/Pole | 12 | | | | | |
| White Pine | 1 | XLog | 20 | | | | | |
| Northern White Cedar | 1 | Pole/Log | 8 | | | | | |

44 4122 - Oak, Pine Sawtimber Well 18.1 93 81-110 N/A From 1982 to 1984 all merchantable trees, with the exception of pine and oak, were harvested. The red pine are mostly concentrated in the southern half of the stand but can be found throughout.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|---------------|-----|-----|--------------------|---------|--------------|---------|
| Red Oak | 63 | Log/Pole | 12 | 93 | Balsam Fir | Low | Variable | Sapling |
| Bigtooth Aspen | 2 | Pole | 7 | 37 | White Pine | Low | 10 - 20 feet | Sapling |
| Red Pine | 35 | Log/XLog/Pole | 14 | | Red Pine | Low | Variable | Sapling |

45 6120 - Lowland Cedar Sawtimber Well 28.1 90 201+ N/A These are very tall straight high-quality cedar. The west portion of the stand has larger log size cedar while the east portion of the stand has 6 to 8 inch pole size cedar. The cedar are of high quality. Currently, there is minimal windthrow. The soil becomes more wet to the east.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|------------|-----|-----|
| Paper Birch | 4 | Log/Pole | 10 | |
| Black Spruce | 2 | Pole/Log | 8 | |
| Northern White Cedar | 92 | Log/Pole | 10 | 90 |
| Balsam Fir | 2 | Log/Pole | 10 | |

46 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 22.5 105 51-80 N/A This stand is wet with lots of blow down and dieback in the birch and balsam fir. This stand is too wet to harvest.

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------------|---------|------------|-----|-----|--------------------|---------|--------------|---------|
| Red Maple | 20 | Log | 14 | | Red Maple | Low | Variable | Sapling |
| White Pine | 1 | XLog/Log | 20 | | Balsam Fir | Medium | 10 - 20 feet | Sapling |
| Northern White Cedar | 20 | Log/Pole | 12 | 105 | Black Ash | Medium | 10 - 20 feet | Sapling |
| Paper Birch | 29 | Log/Pole | 10 | | | | | |
| Balsam Fir | 30 | Log/Pole | 10 | 105 | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|----------------|-----------|------------|--------------|---|----------------|----|---------------|----|----|------------------------|----|----------|----|--|----------------|----|----------|----|--|----------------|----|----------|----|----|------------|----|--|--------------------|---------|---------------|------|---|--------------------|----------|-------------|------------|---|--------------------|-------------|-------------|------------|----------|----------|----------|-----------|------------|----------|----------|------------------------|------------|----------|----------|---------|
| 47 | 42221 - Natural Jack Pine, Mixed Deciduous | Sawtimber Well | 4.5 | 61 | 51-80 | N/A | This stand is long term retention for the harvest to the south. Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. The jack pine were fast growing but are now falling out of the canopy. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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>60</td> <td>Log/Pole</td> <td>10</td> <td>61</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>25</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>1</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 60 | Log/Pole | 10 | 61 | Black/Red (Hybrid) Oak | 25 | Log/Pole | 12 | | Bigtooth Aspen | 10 | Log | 15 | | Red Maple | 1 | Log | 13 | | Balsam Fir | 2 | Pole/Log | 8 | | | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Huckleberry</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | Sub-Canopy Species | Density | Avg. Height | Size | Huckleberry | High | 5 - 10 feet | Tall Shrub | Balsam Fir | Low | Variable | Sapling | Jack Pine | Low | Variable | Sapling | Black/Red (Hybrid) Oak | Low | Variable | Sapling | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 60 | Log/Pole | 10 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 25 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 1 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 2 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Huckleberry | High | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 4319 - Mixed Upland Forest | Poletimber Well | 3.5 | 37 | 51-80 | N/A | The oak regenerated well from stump sprouts in the stand. The boundaries of this sliver of mixed upland forest is hard to determine from the imagery available but its presence was observed on the ground. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 35 | Pole | 8 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 25 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Log/Pole | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 10 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Pole/Log | 8 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 10 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 4130 - Aspen | Poletimber Well | 3.1 | 37 | 51-80 | N/A | The boundaries of this sliver of upland aspen is hard to determine from the imagery available but its presence was observed on the ground. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 5 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 2 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 85 | Pole | 7 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 3 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 4123 - Red Oak | Sawtimber Well | 2.0 | 98 | 81-110 | N/A | This stand is long term retention for the harvest to the north. Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>1</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>3</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>91</td> <td>Log/XLog</td> <td>16</td> <td>98</td> </tr> </tbody> </table> | Canopy Species | % Cover | Size Class | DBH | Age | Red Pine | 5 | Log/Pole/XLog | 12 | | Bigtooth Aspen | 1 | Log/XLog | 16 | | Red Maple | 3 | Log/Pole | 12 | | Red Oak | 91 | Log/XLog | 16 | 98 | | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | Sub-Canopy Species | Density | Avg. Height | Size | White Pine | Low | Variable | Sapling | Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 5 | Log/Pole/XLog | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 1 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 3 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 91 | Log/XLog | 16 | 98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 310 - Herbaceous Openland | Nonstocked | 17.9 | | Immature | No | This stand was harvested in February of 2014 as part of Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. Within this area that failed the natural regeneration check, there was herbaceous openland grasses with scattered oak, white pine, jack pine, aspen, and balsam fir of a poor stocking. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|----------------|-------|-----------|--------------------|--------------|--|----------------|---------|------------|-----|-----|--------------------|---------|-------------|------|-----------|------------------------|----------|---------|---|------------|---------------|----------|---------|------------|---|------------------------|----|---------|------------|-----|----------------|---------|---------|----|-----|----|-----|----------|-------|----------|---------|
| 52 | 4130 - Aspen | Sapling Medium | 10.5 | 6 | Immature | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 2 | Sapling | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 92 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 1 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 122 - Road/Parking Lot | Nonstocked | 0.8 | | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | 4130 - Aspen | Sapling Well | 2.6 | 6 | Immature | N/A | This stand was harvested in February of 2014 as part of Timber Sale Name: Vegetarian Mix; Timber Sale Number: 54-011-12-01. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 3 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 2 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 1 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 89 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 622 - Lowland Shrub | Nonstocked | 2.8 | | | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | 6230 - Cattail | Nonstocked | 0.8 | | Immature | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 4123 - Red Oak | Sawtimber Well | 0.8 | 115 | 51-80 | N/A | This stand is long term retention from the surrounding harvest that was completed in the fall of 2014 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. This retention will add wildlife mast and diversity to the area. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Pole/Log | 8 | | Balsam Fir | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Pole | 7 | | White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 90 | Log | 14 | 115 | Red Pine | Trace | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 4310 - Pine, Oak Mix | Sapling Medium | 2.2 | 6 | Immature | N/A | This area is currently continually seeding in with red and white pine that is being added to the already solid base of oak stump sprout regeneration. This stand was harvested in the fall of 2014 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 40 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 25 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 25 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Sapling | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

59 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 4.0 57 51-80 N/A This drainage feeds Precore Creek to the east. This area is too wet to harvest. The integrity of this drainage should be protected.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| Northern White Cedar | 20 | Log | 11 | 123 |
| Quaking Aspen | 45 | Log/Pole | 10 | 57 |
| Balsam Fir | 25 | Pole | 7 | |
| White Spruce | 5 | Pole | 6 | |
| Paper Birch | 5 | Pole/Sapling | 5 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| Balsam Fir | Medium | Variable | Sapling |

60 42210 - Natural Red Pine Sawtimber Well 4.3 80 111-140 N/A This is a naturally regenerated stand of red pine that adds diversity to the area in the form of an upland/lowland transition area.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|--------------|-----|-----|
| Jack Pine | 5 | Log | 12 | |
| Red Oak | 5 | Log | 14 | |
| Red Maple | 5 | Log/Pole | 11 | |
| White Pine | 5 | Log | 15 | |
| Balsam Fir | 5 | Pole/Sapling | 6 | |
| Paper Birch | 3 | Log/Pole | 10 | |
| Red Pine | 72 | Log/XLog | 17 | 80 |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| Balsam Fir | Medium | Variable | Sapling |

61 6112 - Lowland Aspen Sapling Well 18.1 4 Immature N/A This stand was harvested in 2016 as part of Timber Sale Name: Down Pour Mix; Timber Sale Number: 54-012-12-01. This portion of the treatment came back with a maze of cattail without the stand.

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------|---------|------------|-----|-----|
| Quaking Aspen | 90 | Sapling | 1 | 4 |
| Balsam Fir | 10 | Sapling | 1 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|----------|
| Cattail spp. | High | Unspecified | Non-Wood |