



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72174

Entry Year 2024

Acreage: 1,653

County Crawford

Management Area: Grayling Ice Contact

Stand Examiner: Derek Nellis

Legal Description:

T28NR4W, Sections 31, 32 and 33

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversity and structural diversity while providing for multiple use and visual management.

Soil and topography:

Soil types within the compartment consist of Grayling, Graycalm-Roselawn, Rubicon-Roselawn and Kalkaska sands. Topography within the compartment is level in the southwest and rolling hills with valleys between them.

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

The compartment consists of a large block of state ownership with the exception of an isolated 40- acre parcel located in the SE1/4, SE1/4 of Section 33. The east and west side of compartment is bounded by private ownership. Private lands on the east side of the compartment contain one permanent and several seasonal cabins. Manistee River Road and Hiawatha Drive on the west side of compartment is lined with permanent and seasonal residences.

Unique Natural Features:

None.

Archeological, Historical, and Cultural Features:

Two old logging camps are located within the compartment.

Special Management Designations or Considerations:

Visual management considerations should be taken in to account when managing stands along County Road 612. Natural rivers corridor along the Manistee River.

Watershed and Fisheries Considerations:

The Manistee River passes through Section 31.

Wildlife Habitat Considerations:

To maintain Aspen stands for the White-tailed Deer and Ruffed Grouse. Other significant wildlife that can be found within the compartment is the Black Bear, Wild Turkey, Squirrel and Rabbits.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 600 and 800 feet. There is elevation relief of approximately 250 feet in the compartment. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is less than one mile to the north. Gravel potential is thought to be good, especially the upland areas. Part of the compartment is leased for oil and gas and Antrim Shale is developed in the east one-half of Section 31. The compartment currently contains 3 active Antrim wells. The Antrim Shale appears to be losing potential, due to the thickness of overburden, and may not be developed further in this area. There is at least one abandoned well pad in compartment. It is presumed it is a former niagran well pad.

Vehicle Access:

This compartment is easily accessed through a variety of county roads and two track roads. County Road 612, Manistee River Road and Hiawatha Drive provide access to much of the state land in Sections 31 and 33. The remaining state ownership is accessible by several two-track roads branching off from these major county roads. Most of these two-track roads are designated ORV and snowmobile trails. All new roads created from timber sale and management activities are to be closed upon completion of the management activity.

Survey Needs:

The potential for survey needs exist.

Recreational Facilities and Opportunities:

The compartment contains a portion of the North Frederic Cycle/ORV Trail and a portion of the Blue Bear snowmobile trail (Trail numbers 679 and 74). Besides snowmobiling and cycling, other recreational opportunities include hunting and mushrooming. There is no designated horse trail in the compartment, however some use is occurring on two-tracks within the compartment.

Fire Protection:

Fire equipment can gain easy access into most all of the compartment for fire suppression. The Manistee River provides a nearby water source for fire protection and the Frederic Volunteer Fire Department is close by.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

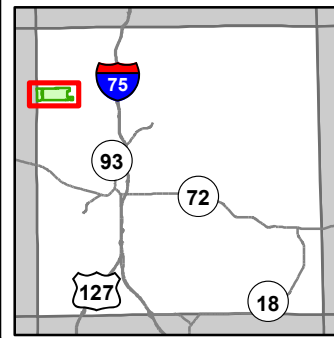
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

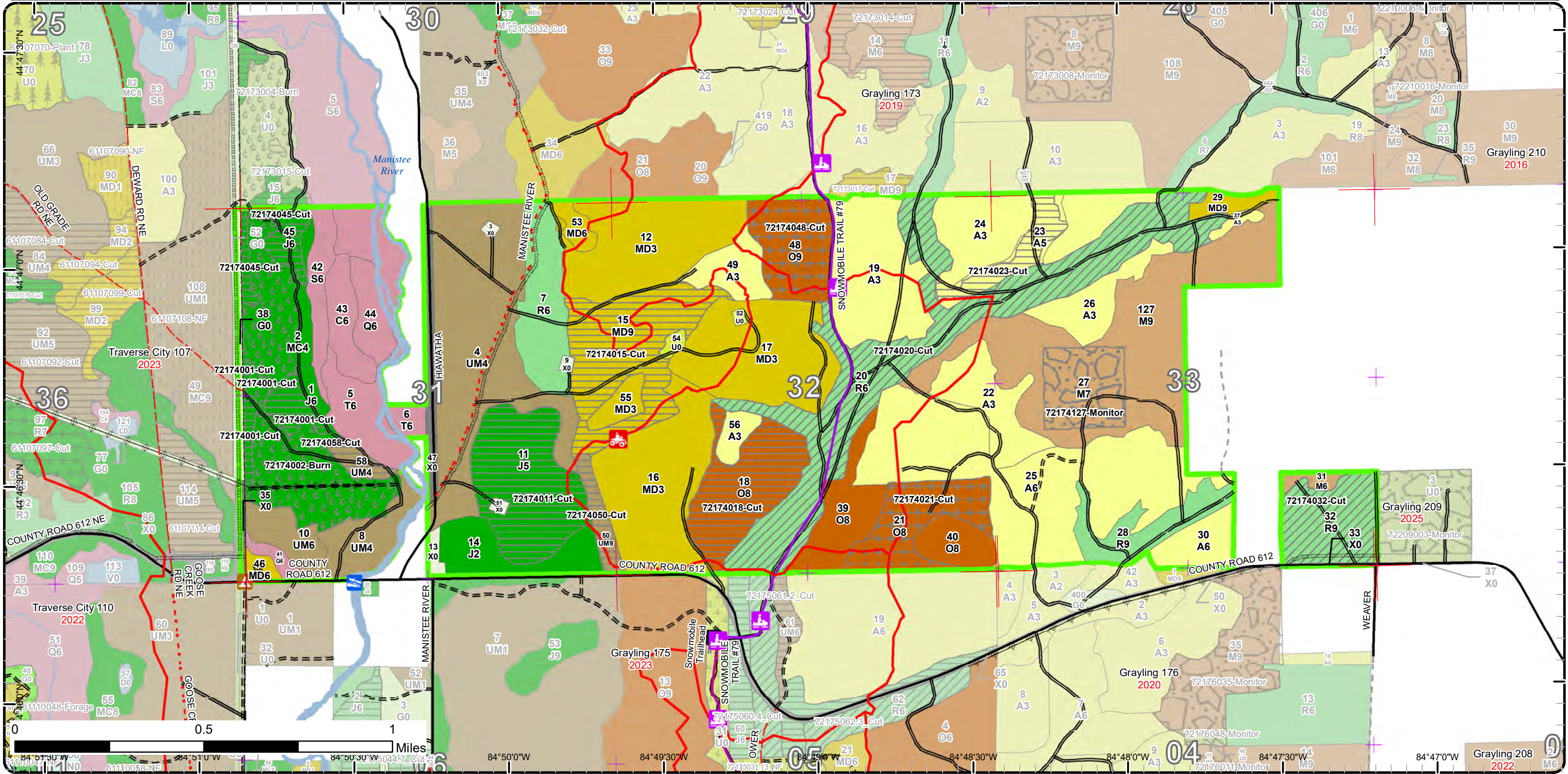
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 174
 T28N, R04W, Sec. 31-33
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2024
 Acres: 1652.8 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 12/27/2022
 Map Phase: Post-Review

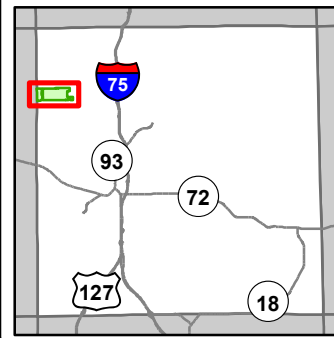


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚙 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- 🚤 Boating Access Site
- ⛺ Campground
- P Parking Lot
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- 🌲 Harvest, Overstory Removal
- 🔥 Prescribed Burn
- 🌲 Thinning (Crown, Low, Systematic)
- 🌲 Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 790 - Other Bare/Sparingly Vegetated



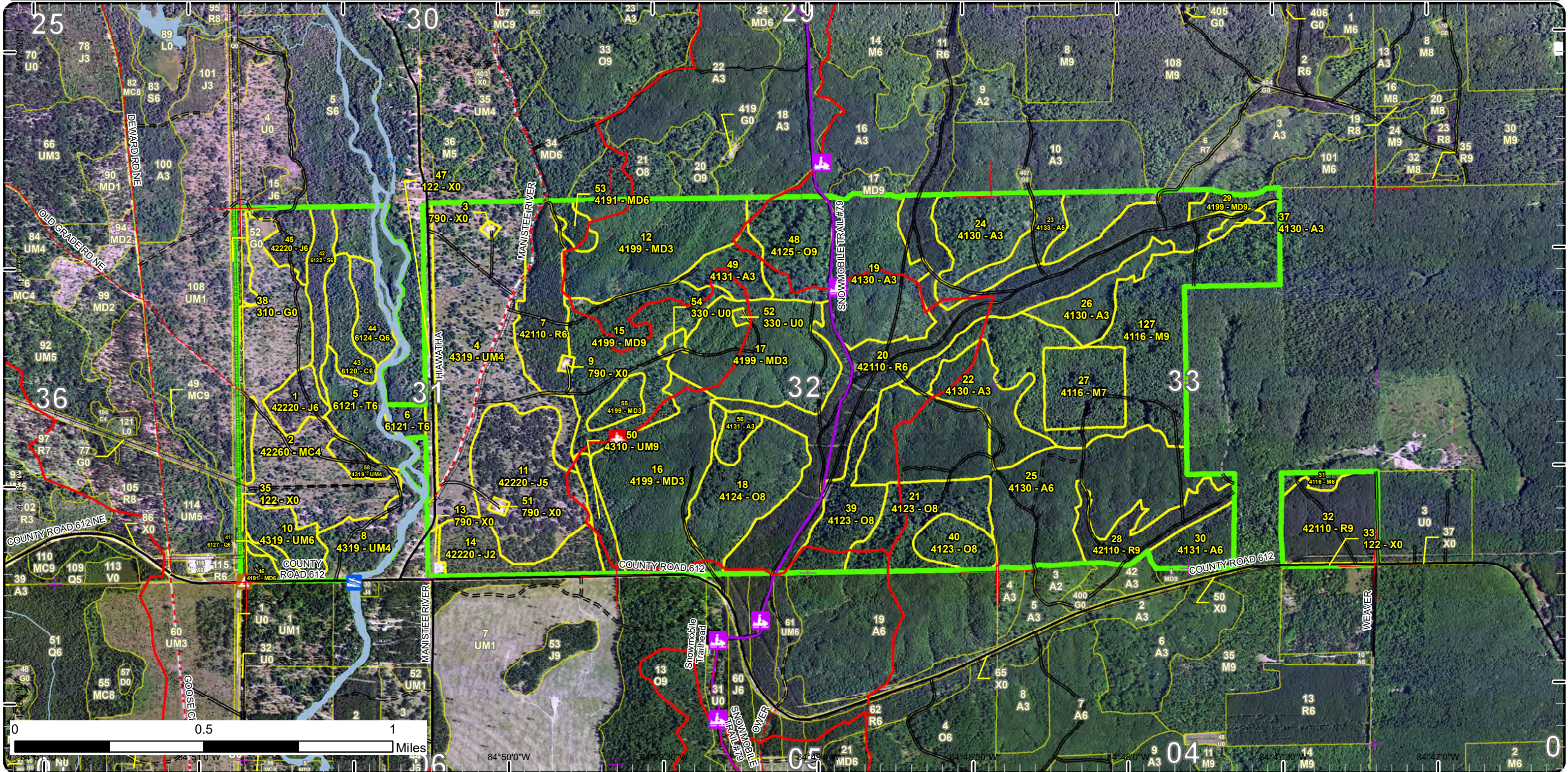
Stand Boundary Map

Compartment: 174
 T28N, R04W, Sec. 31-33
 County: Crawford
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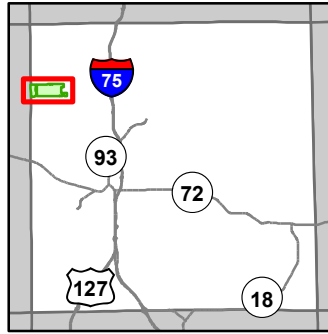
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- Stand Boundaries

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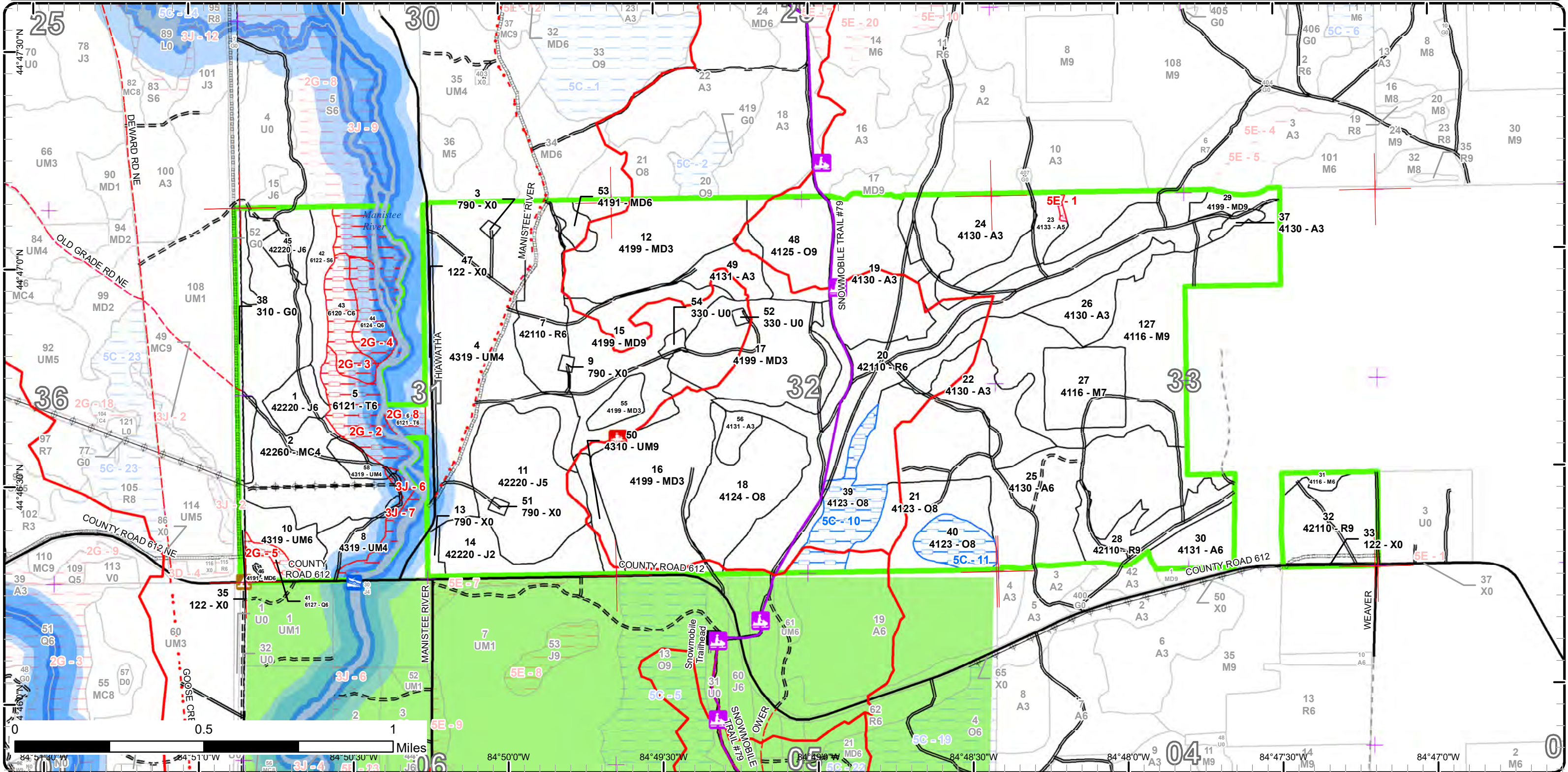


Special Conservation Areas

Compartment: 174
T28N, R04W, Sec. 31-33
County: Crawford
Unit: Grayling
Mgmt Area: Grayling Ice Contact
YOE: 2024
Acres: 1652.8 GIS Calculated
Examiner: Derek Nellis
Map Revised: 12/27/2022
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- Designated Snowmobile Trails
- Boating Access Site
- Campground
- Parking Lot
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|-------------------------|------------|----------|------------|----------|------------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen | 0 | 0 | 110 | 3 | 207 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 339 |
| Bare/Sparsely Vegetated | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Herbaceous Openland | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Jack Pine | 0 | 0 | 0 | 0 | 26 | 0 | 59 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 |
| Low-Density Trees | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Mixed Upland Deciduous | 0 | 0 | 8 | 0 | 200 | 0 | 0 | 4 | 7 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 283 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 86 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 96 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 231 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 231 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 164 |
| Urban | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 33 | 0 | 118 | 3 | 433 | 140 | 395 | 129 | 167 | 189 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1652 |



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 174

Total Compartment Acres: 1,653

Commercial Harvest - 468
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|------------------------|------------|-----------|----------------|-----------|-------------|------------|-------------------|----------|----------|-------------|
| Aspen | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Jack Pine | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| Mixed Upland Deciduous | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| Oak | 46 | 0 | 0 | 0 | 0 | 69 | 0 | 0 | 0 | 115 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 171 | 0 | 0 | 0 | 171 |
| Upland Mixed Forest | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 228 | 0 | 0 | 0 | 0 | 171 | 69 | 0 | 0 | 468 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|------------|-----------|------------|----------|-----------------|-------------|
| Current | 468 | 0 | 0 | 0 | 78 | 0 | 29 | 0 | 0 | 576 |
| Next Step | 0 | 0 | 0 | 0 | 113 | 0 | 206 | 0 | 28 | 347 |
| Total | 468 | 0 | 0 | 0 | 191 | 0 | 235 | 0 | 28 | 923 |



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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:

| | | | | | | | | | | |
|----------|---------------------|------|---------------------------|-----------------|----|-------|---------|-------------------------|-------------------------|----|
| 1 | 72174001-Cut | 13.7 | 42220 - Natural Jack Pine | Poletimber Well | 60 | 51-80 | Harvest | Clearcut with Retention | 330 - Low-Density Trees | No |
|----------|---------------------|------|---------------------------|-----------------|----|-------|---------|-------------------------|-------------------------|----|

Prescription Specs: Harvest all trees > 2"DBH. Standard retention. place retention along eastern edge. Chipping required and low stump specs to facilitate future prescribed burn.

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

Acceptable Regen: Barrens species.

Other Comment: This harvest is intended to reduce woody species in preparation for prescribed burning.

Site Condition:

Proposed Start Date: 10/1 /2022

| | | | | | | | | | | |
|----------|----------------------|------|---------------------------------------|-----------------|----|------|------|---------|---------------------------|----|
| 2 | 72174002-Burn | 78.3 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Poor | 55 | 1-50 | Burn | Opening | 31022 - Warm Season Grass | No |
|----------|----------------------|------|---------------------------------------|-----------------|----|------|------|---------|---------------------------|----|

Prescription Specs: Burn in conjunction with stands 1, 45, 58, and stands 4 and 15 in comp 173. This would be a collaborative burn with the traverse city unit.

Next Step Treatments: Burn, Opening

Acceptable Regen: Warm season grasses with a minor component of upland shrub and jack pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

| | | | | | | | | | | | |
|-----------|---------------------|------|---------------------------|-------------------|----|------|---------|-------------------------|--------------------------|-----------|----|
| 11 | 72174011-Cut | 59.3 | 42220 - Natural Jack Pine | Poletimber Medium | 54 | 1-50 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | No |
|-----------|---------------------|------|---------------------------|-------------------|----|------|---------|-------------------------|--------------------------|-----------|----|

Prescription Specs: Harvest all trees >2" DBH. Standard retention. Include rec trail protection and signage as well as gas well protection specs.

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

Acceptable Regen: Natural jack pine to meet minimum stocking. If natural jack pine fails accept upland shrub or open grassland.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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

| | | | | | | | | | | | |
|-----------|---------------------|------|-------------------------------------|----------------|----|-------|---------|-------------------------|-------------------------------------|-----------|----|
| 15 | 72174015-Cut | 63.9 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 85 | 51-80 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
|-----------|---------------------|------|-------------------------------------|----------------|----|-------|---------|-------------------------|-------------------------------------|-----------|----|

Prescription Specs: Harvest all trees >2"DBH except do not harvest pine and do not harvest white oak over 20" DBH. Standard island retention. No chipping, slash is to remain to protect regeneration from browse. Add rec trail protection and signage specs and gas well spec.

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

Acceptable Regen: Oak, maple, and aspen for a moderately stocked mixed upland deciduous stand.

Other Comment: rolling terrain may make trail protection difficult. Consider trail reroute.

Site Condition:

Proposed Start Date: 10/1 /2023

| | | | | | | | | | | | |
|-----------|---------------------|------|---------------------------|------------------|----|------|---------|-------------------------|-------------------------------------|-----------|----|
| 18 | 72174018-Cut | 45.6 | 4124 - Red with White Oak | Sawtimber Medium | 95 | 1-50 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
|-----------|---------------------|------|---------------------------|------------------|----|------|---------|-------------------------|-------------------------------------|-----------|----|

Prescription Specs: Harvest all trees >2"DBH. Standard retention. Add rec trail protection and signage specs and oak wilt spec. In addition to area based retention, some large oak may be retain for mast and roosting trees.

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

Acceptable Regen: Oak, maple, and aspen for a moderately stocked mixed upland deciduous stand

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

| | | | | | | | | | | | |
|-----------|---------------------|-------|--------------------------|-----------------|----|---------|---------|--------------|-------------------------|-----------|----|
| 20 | 72174020-Cut | 136.1 | 42110 - Planted Red Pine | Poletimber Well | 54 | 141-170 | Harvest | Low Thinning | 4211 - Planted Red Pine | Even-Aged | No |
|-----------|---------------------|-------|--------------------------|-----------------|----|---------|---------|--------------|-------------------------|-----------|----|

Prescription Specs: Thin from below to an average residual BA of 120. Include rec trail protection and signage specs.

Next Step Treatments:

Acceptable Regen: Red pine plantation at full stocking

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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| Treatment ID | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|----------------|-------|---------------------------|-------------------|-----------|----------|----------------|-------------------------|-------------------------------------|---------------|-------------|
| 21 | 72174021-Cut | 34.6 | 4123 - Red Oak | Sawtimber Medium | 85 | 1-50 | Harvest | Overstory Removal | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Harvest all trees >5" DBH. Less than 10 BA of individual overstory trees may be marked to retain if healthy and wind firm or for den trees, mast, and future drumming logs. Include rec trail protection and signage specs, protect regen, and oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, maple, and aspen for a moderately stocked mixed deciduous stand <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 23 | 72174023-Cut | 15.3 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 57 | 51-80 | Harvest | Clearcut with Retention | 4130 - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Final harvest this stand. Only cut the north side of the trail for recreational considerations. Leave no aspen for retention to maximize regen. For retention leave patches of white pine where it is dense. Acceptable regeneration would be aspen and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2013</p> | | | | | | | | | | | |
| 32 | 72174032-Cut | 35.2 | 42110 - Planted Red Pine | Sawtimber Well | 55 | 171-200 | Harvest | Low Thinning | 4211 - Planted Red Pine | Even-Aged | No |
| <p><u>Prescription</u> Thin from below to a residual BA of 120. Include utility ROW spec. Protect sugar maple regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Red pine for a fully stocked stand <u>Regen:</u></p> <p><u>Other</u> This could be a candidate for conversion back to northern hardwoods. NW field grade corner is a wooden fence post. Will likely need further investigation prior to establishment. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 45 | 72174045-Cut | 14.2 | 42220 - Natural Jack Pine | Poletimber Well | 60 | 51-80 | Harvest | Clearcut with Retention | 330 - Low-Density Trees | | No |
| <p><u>Prescription</u> Harvest all trees > 2"DBH. Standard retention. place retention along eastern edge. Chipping required and low stump specs to facilitate future prescribed burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Burn, Opening; NonForestMgt, Brush Cutting; NonForestMgt, Other - Specify</p> <p><u>Acceptable</u> Barrens species <u>Regen:</u></p> <p><u>Other</u> This harvest is intended to reduce woody species in preparation for prescribed burning. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p> | | | | | | | | | | | |



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

| | | | | | | | | | | | |
|---|---------------------|------|--------------------------|----------------|----|------|---------|-------------------|-------------------------------------|-----------|----|
| 48 | 72174048-Cut | 34.3 | 4125 - Black, N. Pin Oak | Sawtimber Well | 85 | 1-50 | Harvest | Overstory Removal | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Harvest all trees >5" DBH. Less than 10 BA of individual overstory trees may be marked to retain if healthy and wind firm or for den trees, mast, and future drumming logs. Include rec trail protection and signage specs and protect regen, and soft oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, maple, and aspen for a moderately stocked mixed upland deciduous stand</p> <p><u>Regen:</u></p> <p><u>Other</u> Rolling terrain may make trail protection difficult. Consider trail reroute.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|---------------------|-----|----------------------|----------------|----|-------|---------|-------------------------|----------------------------|-----------|----|
| 50 | 72174050-Cut | 9.3 | 4310 - Pine, Oak Mix | Sawtimber Well | 85 | 51-80 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | No |
| <p><u>Prescription</u> Harvest all trees >2"DBH. Retain all oak and pine >20DBH.</p> <p><u>Specs:</u> No additional retention due to stand size. Include rec trail protection and signage specs.</p> <p><u>Next Step</u> <u>Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable</u> Pine, oak, maple, and aspen for a moderately stocked upland mixed forest.</p> <p><u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|---------------------|-----|----------------------------|----------------|----|------|---------|----------|-------------------------|--|----|
| 58 | 72174058-Cut | 6.4 | 4319 - Mixed Upland Forest | Poetimber Poor | 43 | 1-50 | Harvest | Clearcut | 330 - Low-Density Trees | | No |
| <p><u>Prescription</u> Harvest all trees > 2"DBH. Standard retention. place retention along eastern edge. Chipping required and low stump specs to facilitate future prescribed burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u> Burn, Opening</p> <p><u>Acceptable</u> Barrens species.</p> <p><u>Regen:</u></p> <p><u>Other</u> This harvest is intended to reduce woody species in preparation for prescribed burning.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p> | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|-------------------------|------|----------------------------------|----------------|----|------|------------|------------------------------|-------------------------|-----------|----|
| 27 | 72174127-Monitor | 29.3 | 4116 - Mixed N. Hardwood - Aspen | Sawtimber Poor | 79 | 1-50 | Monitoring | Natural Regen (Intermediate) | 411 - Northern Hardwood | Even-Aged | No |
| <p><u>Prescription</u> Monitor natural regen. Part of research project.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u> Northern hardwood regen was present at 2024 YOE Inventory.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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: 575.5

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 174
Year of Entry: 2024

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | 5C | 2G | 3J | 5E |
|----------------|--------------------|----------------|---------------|--------------------------|----|----|----|----|
| | | With Condition | Not Available | | | | | |
| 339 | 338 | 0 | 1 | Aspen | | | | 1 |
| 6 | 6 | 0 | 0 | Bare/Sparsely Vegetated | | | | |
| 16 | 0 | 0 | 16 | Cedar | | 16 | | |
| 7 | 7 | 0 | 0 | Herbaceous Openland | | | | |
| 117 | 117 | 0 | 0 | Jack Pine | | | | |
| 3 | 3 | 0 | 0 | Low-Density Trees | | | | |
| 18 | 0 | 0 | 18 | Lowland Conifers | | 18 | | |
| 15 | 15 | 0 | 0 | Lowland Spruce/Fir | | | | |
| 282 | 282 | 0 | 0 | Mixed Upland Deciduous | | | | |
| 86 | 86 | 0 | 0 | Natural Mixed Pines | | | | |
| 145 | 145 | 0 | 0 | Northern Hardwood | | | | |
| 157 | 115 | 43 | 0 | Oak | 43 | | | |
| 231 | 231 | 0 | 0 | Red Pine | | | | |
| 50 | 0 | 0 | 50 | Tamarack | | 50 | | |
| 164 | 154 | 0 | 10 | Upland Mixed Forest | | | 10 | |
| 17 | 17 | 0 | 0 | Urban | | | | |
| 1,653 | 1,515 | 43 | 95 | Total Forested Acres | 43 | 84 | 10 | 1 |
| | 92% | 3% | 6% | 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: | | | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 45 | 3J: Water quality / BMPs (stream, river, or lake) | 3D: Recreational / Scenic values | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 174
Year of Entry: 2024

| | | | | | | | |
|--|--------------------|--|----|-------------|-------------|-------------|-------------|
| 3 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Significant ground water influence. Areas of open water observed after prolonged temps below 10 degrees. | | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Significant ground water influence. Areas of open water observed after prolonged temps below 10 degrees. | | | | | | | |
| 5 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Manistee River Natural River Buffer | | | | | | | |
| 7 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Manistee River Natural River Buffer | | | | | | | |
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 174
Year of Entry: 2024

| | | | | | | | |
|-----------|-----------|--|----|-------------|-------------|-------------|-------------|
| 10 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 28 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 11 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

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

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | |
|------------------|---------------------------------------|-----------------|------------------|-----------|-------------|--------------------------|--|-------------|-------------|------------|
| 1 | 42220 - Natural Jack Pine | Poletimber Well | 15.2 | 60 | 51-80 | N/A | More dense pocket of jackpine bordered by black spruce to the east and open cherry brush/jackpine to the west. Openings contain sweet fern, blueberry, and caribou moss. Jack Pine and some black spruce. Becomes more lowland conifer as you approach the river. Some mortality in the jack pine. It is very tall but does not have much diameter to it. Not going to cut due to the proximity of the river and the houses directly across from the stand. It would most likely convert to cherry brush. Manistee River Flood plains. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | |
| Black Cherry | | 15 | Sapling/Pole | 3 | | | | | | |
| Jack Pine | | 85 | Pole | 6 | 60 | | | | | |
| 2 | 42260 - Natural Pine, Mixed Deciduous | Poletimber Poor | 86.4 | 55 | 1-50 | N/A | Primarily jack pine with scattered red and white pine. Between 30 - 40 percent canopy closure. Lots of cherry brush. Open areas are dominated by grass, Sedge, sweetfern, blueberry, and caribou moss. Very open stand with mixed conifers throughout. Lots of cherry brush as well. Do nothing. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Jack Pine | | 40 | Pole | 6 | 55 | Common Lowbush Blueberry | | Medium | < 5 feet | Tall Shrub |
| White Pine | | 3 | Pole | 5 | | Sweet Fern | | Medium | < 5 feet | Tall Shrub |
| Black Cherry | | 50 | Sapling | 3 | 40 | Cladonia (Reindeer moss) | | Medium | Unspecified | Non-Wood |
| Red Pine | | 7 | Pole | 8 | | Big Bluestem | Medium | Unspecified | Non-Wood | |
| 3 | 790 - Other Bare/Sparsely Vegetated | Nonstocked | 0.9 | | Unspecified | No | well pad lots of knapweed. | | | |
| 4 | 4319 - Mixed Upland Forest | Poletimber Poor | 110.7 | 40 | 1-50 | N/A | Primarily jack pine with scattered red and white pine. Between 30 - 40 percent canopy closure. Lots of cherry brush. Open areas are dominated by grass, Sedge, sweetfern, blueberry, and caribou moss. Very open stand with mixed conifers throughout. Lots of cherry brush as well. Do nothing. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Black Cherry | | 50 | Sapling | 3 | 40 | Sweet Fern | | Medium | < 5 feet | Tall Shrub |
| White Pine | | 3 | Pole | 5 | | Cladonia (Reindeer moss) | | Medium | Unspecified | Non-Wood |
| Red Pine | | 7 | Pole | 8 | | Big Bluestem | | Medium | Unspecified | Non-Wood |
| Jack Pine | | 40 | Pole | 6 | 55 | Common Lowbush Blueberry | Medium | < 5 feet | Tall Shrub | |
| 5 | 6121 - Tamarack | Poletimber Well | 45.0 | 60 | 1-50 | N/A | Tamarack over alder. Major groundwater influences. Remains unfrozen. This stand has some low areas in it that are fairly wet. There is some tag alder in pockets throughout. Decent pine growing along the edges. Do nothing. Manistee River flood plains. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Balsam Fir | | 10 | Sapling | 4 | | Alder | | High | 5 - 10 feet | Tall Shrub |
| Tamarack | | 90 | Pole | 5 | 60 | | | | | |
| 6 | 6121 - Tamarack | Poletimber Well | 5.3 | 64 | 1-50 | N/A | Small patch of red pine and oak in SE corner along the road. Dense stand of tamarack. Most of the other species listed are out near the road where the power company has done their maintenance. West edge of stand borders manistee river. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | |
| Red Maple | | 5 | Sapling | 2 | | | | | | |
| Quaking Aspen | | 9 | Sapling | 2 | | | | | | |
| Tamarack | | 75 | Sapling/Pole/Log | 4 | 64 | | | | | |
| Northern Pin Oak | | 1 | Log | 12 | | | | | | |
| Red Pine | | 10 | Pole | 4 | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | |
|----------------------|-------------------------------------|-------------------|------------|-----------|-------------|--------------------|--|---------|-------------|---------|--|
| 7 | 42110 - Planted Red Pine | Poletimber Well | 34.8 | 54 | 111-140 | N/A | BA - 120, 120, 120, 180, 100.Red maple, white pine, and oak in the understorySmall diameter red pine plantation. Stand was planted in 1967. Has not self pruned much as of yet. Has Breitburn pipeline going through stand. Southern portion of stand is more populated with other species. Rows are still somewhat distinguishable. Still has some marked trees out on site, possibly just left over from previous treatment. Stand 3rd row thinned in 2006. Do nothing at this time. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Red Pine | | 90 | Pole | 5 | 54 | Northern Pin Oak | | Low | 5 - 10 feet | Sapling | |
| Red Maple | | 5 | Pole | 6 | | White Pine | | Low | < 5 feet | Sapling | |
| Northern Pin Oak | | 5 | Log/XLog | 16 | | White Oak | | Low | 5 - 10 feet | Sapling | |
| 8 | 4319 - Mixed Upland Forest | Poletimber Poor | 22.8 | 43 | 1-50 | N/A | This is a transitional stand from upland jack pine to the Manistee river corridor. Contains 150' natural rivers site condition.Open stand, has a good mix of species throughout. Do nothing at this time. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | | |
| Choke Cherry | | 30 | Sapling | 3 | | | | | | | |
| Quaking Aspen | | 15 | Pole | 6 | | | | | | | |
| Red Maple | | 10 | Pole | 5 | | | | | | | |
| White Pine | | 15 | Sapling | 3 | | | | | | | |
| Jack Pine | | 30 | Pole | 6 | 43 | | | | | | |
| 9 | 790 - Other Bare/Sparsely Vegetated | Nonstocked | 0.9 | | Unspecified | No | wellpad with lots of knapweed. | | | | |
| 10 | 4319 - Mixed Upland Forest | Poletimber Well | 15.2 | 80 | 81-110 | N/A | Aspen, pin oak, red maple, red pine, white pine, and jack pine. A shallow valley runs from the NE to SW containing alder brush, white birch, and a few small cedar.Nice mixed stand. Has a low area right up near the river. Some nice log sized red pine. Do not recommend cutting due to the proximity to the river and being right along CR 612. Re-evaluate in ten years. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | | |
| Paper Birch | | 5 | Pole/Log | 8 | | | | | | | |
| Northern White Cedar | | 1 | Pole | 5 | | | | | | | |
| White Pine | | 20 | Pole/Log | 9 | 80 | | | | | | |
| Red Pine | | 11 | Log | 12 | 88 | | | | | | |
| Northern Pin Oak | | 15 | Pole/Log | 8 | | | | | | | |
| Red Maple | | 20 | Pole | 5 | | | | | | | |
| Quaking Aspen | | 15 | Log/Pole | 10 | | | | | | | |
| Jack Pine | | 13 | Pole | 5 | | | | | | | |
| 11 | 42220 - Natural Jack Pine | Poletimber Medium | 59.3 | 54 | 1-50 | N/A | Somewhat open stand with scattered patches of jack pine. Also many scattered cherry and red pine throughout. Do nothing at this time. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | | |
| Red Pine | | 10 | Pole/Log | 8 | | | | | | | |
| Choke Cherry | | 20 | Sapling | 4 | | | | | | | |
| Jack Pine | | 70 | Pole | 7 | 54 | | | | | | |
| 12 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 61.8 | 35 | 81-110 | N/A | Aspen in the valleys with mostly oak and red maple on the ridges. Great aspen regen. Do nothign at this time. Some white pine in NW part of stand. Stand was clearcut in 1987. 006-85-01. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | | |
| Bigtooth Aspen | | 20 | Sapling | 3 | 35 | | | | | | |
| Red Maple | | 45 | Sapling | 3 | 35 | | | | | | |
| Northern Pin Oak | | 30 | Sapling | 4 | 35 | | | | | | |
| White Oak | | 5 | Sapling | 3 | 35 | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|------------------|-------|-----------|--------------------|--------------|--|----------------|------------|------------|-----|-----------|--------------------|--------------|-------------|------|-----------|----------|--------------|---------|----|----------------|-----------|--------------|--------------|-----------|----------------|------|--------------|----|-----------|------------------|-------------|--------------|------------------------|----|----------|----|----|-----------|-----|----------|---------|------------|---|------|---|--|--|--|--|--|-----------|---|-----|----|--|--|--|--|
| 13 | 790 - Other Bare/Sparsely Vegetated | Nonstocked | 2.8 | | Unspecified | No | Wolverine power electrical transfer site. Gravel pad with gated access from city rd 612. Well site, lots of knapweed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 42220 - Natural Jack Pine | Sapling Medium | 25.9 | 35 | 1-50 | N/A | Stand was diameter limit cut (8" DBH and up jack pine) in 2008 under timber sale 72-034-01, Wolverine Power Jack. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 20 | Sapling | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 20 | Sapling | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 60 | Pole/Sapling | 6 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 63.9 | 85 | 51-80 | N/A | Pine and large white oak mostly along the W/NW perimeter. Motorcycle trail weaves through the stand. Rolling terrain. Thinned to 70 in 2010. 8-10 foot regeneration, seems to be coming in well. Lots of RM and Aspen, minimal oak regen. Did not core due to oak wilt. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>39</td> <td>Pole/Log</td> <td>9</td> <td>85</td> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>4</td> <td>XLog</td> <td>26</td> <td></td> <td>Red Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>41</td> <td>Log/Pole</td> <td>12</td> <td>85</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Pine</td> <td>8</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Oak</td> <td>8</td> <td>Log</td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | Red Maple | 39 | Pole/Log | 9 | 85 | Red Oak | Low | 5 - 10 feet | Sapling | Red Oak | 4 | XLog | 26 | | Red Maple | High | 5 - 10 feet | Sapling | Black/Red (Hybrid) Oak | 41 | Log/Pole | 12 | 85 | | | | | White Pine | 8 | Pole | 6 | | | | | | White Oak | 8 | Log | 13 | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 39 | Pole/Log | 9 | 85 | Red Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 4 | XLog | 26 | | Red Maple | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 41 | Log/Pole | 12 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 8 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 8 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 69.1 | 35 | 1-50 | N/A | Just coming into pole size class. Stand was cut in 1987 #249-84-01. Young oak and maple regen is coming in nicely. Oak is struggling to keep pace with the other hardwoods. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 40 | Pole/Sapling | 5 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 20 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 20 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Pole/Sapling | 5 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 63.0 | 35 | 81-110 | N/A | MCCT Fredric Loop traverses the stand. Some stems approaching pole size. An old landing/gas well site with good management access road is located in the NW of this stand. Stand was cut in 1987. Oak, maple and aspen regen. Oak is struggling to keep up with the rest of the hardwoods. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>37</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> <tr> <td>Northern Pin Oak</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> </tbody> </table> | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 37 | Sapling/Pole | 4 | 35 | White Oak | 15 | Sapling/Pole | 4 | 35 | Bigtooth Aspen | 30 | Sapling/Pole | 4 | 35 | Paper Birch | 3 | Sapling/Pole | 4 | 35 | Northern Pin Oak | 15 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 37 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 15 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 30 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 3 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 15 | Sapling/Pole | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 4124 - Red with White Oak | Sawtimber Medium | 45.6 | 95 | 1-50 | N/A | Red oak with aspen and red maple. Some decline in the oak overstory at the base of the ridge near the pine. Some portions of the stand along the western edge were thinned in 2010. These areas contain red maple and aspen regen Split our stand 56 were lower BA was retained during last harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>50</td> <td>Log</td> <td>10</td> <td>95</td> <td>Red Maple</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>30</td> <td>Log</td> <td>10</td> <td>82</td> <td>Red Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Log</td> <td>14</td> <td></td> <td>White Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | Red Oak | 50 | Log | 10 | 95 | Red Maple | Medium | < 5 feet | Sapling | White Oak | 30 | Log | 10 | 82 | Red Oak | Low | < 5 feet | Sapling | Bigtooth Aspen | 20 | Log | 14 | | White Oak | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 50 | Log | 10 | 95 | Red Maple | Medium | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 30 | Log | 10 | 82 | Red Oak | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Log | 14 | | White Oak | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|-------------------|---------|------------|----------|--------------|---|-----|----------|---|----|---|----|--------------------|---------|-------------|---------------|-----------|---------|-------------|---------|------------------------|------|--------------|---------|---|---|--|--------------------|---------|-------------|------|------------------|-----|--------------|---------|--------------|-----|-------------|---------|--------------|--------|-------------|---------|---|--|--|--|
| 19 | 4130 - Aspen | Sapling Well | 54.6 | 35 | 1-50 | N/A | young aspen good growth. some oak and maple mixed in. was cut in 1987 #007-85-01. some larger dia stems of aspen throughout. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 20 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 70 | Sapling | 3 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 42110 - Planted Red Pine | Poletimber Well | 136.4 | 54 | 141-170 | N/A | A few patches of oak regeneration. stand is bisected by snowmobile trail. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>100</td> <td>Pole/Log</td> <td>8</td> <td>54</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Pine | 100 | Pole/Log | 8 | 54 | <p>Large stand. Stand was planted in 1967. All red pine has been 3rd row thinned in 2006. Stand has varying quality throughout but would all be treated the same. Do nothing at this time.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 100 | Pole/Log | 8 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 4123 - Red Oak | Sawtimber Medium | 34.6 | 85 | 1-50 | N/A | Dense regen of maple and aspen. Some oak present but not at the level to maintain an oak coverytype. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 Oak</td> <td>100</td> <td>Pole/Log</td> <td>9</td> <td>85</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Oak | 100 | Pole/Log | 9 | 85 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Red Maple | High | 5 - 10 feet | Sapling | Bigtooth Aspen | High | 5 - 10 feet | Sapling | <p>Stand was cut in 2010. Oak ridge thin again. Lots of red maple and aspen regen. Minimal oak coming back. ORV trail passes through stand. Did not core oak due to oak wilt.</p> | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 100 | Pole/Log | 9 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 4130 - Aspen | Sapling Well | 28.0 | 16 | Immature | N/A | Approaching pole size. Aspen with minor components of red maple, birch, and oak. Stand was cut in 2006. Non merchantable at this time. ORV trail passes through stand. Some oak was left during previous treatment do nothing at this time. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 Oak</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>60</td> <td>Sapling/Pole</td> <td>4</td> <td>16</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Oak | 5 | Sapling | 3 | | Paper Birch | 10 | Sapling | 3 | | Red Maple | 25 | Sapling | 3 | | Bigtooth Aspen | 60 | Sapling/Pole | 4 | 16 | <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>Beech</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Beech | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 5 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 25 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 60 | Sapling/Pole | 4 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 4133 - Aspen, Mixed Pine | Poletimber Medium | 18.7 | 57 | 51-80 | N/A | Under contract sale Two in One Mix • 72-026-16 (1) • Precision Forestry Inc. Two extensions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole/Log | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 10 | Pole/Log | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 5 | Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 75 | Pole/Log | 7 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pines (spp.) | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 4130 - Aspen | Sapling Well | 45.7 | 16 | Immature | N/A | stand was harvested in 2006. young aspen stand. great regen. some large oak left throughout. do nothing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 70 | Sapling | 3 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 10 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 10 | Log | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-----------------|-------|-----------|----------------------|--------------|--|----------------|---------|------------|-----|-----|--------------------|---------|--------------|------|-------------|---------------|-----|---------|----|---------------|----------------|-------------|--------------|---------------|----|---------|----|---------|--------------|--------|-------------|---------|--------------|----|----------|---|----|----------------------|--------|-------------|------------|------------------|----|-----|----|----|-----------|--------|--------------|---------|---------|----|-----|----|--|--|--|--|--|
| 25 | 4130 - Aspen | Poletimber Well | 129.8 | 35 | 51-80 | N/A | Mixed aspen stand with red maple, birch, oak, and cherry. Stand cut in 1987. Sale numbers 9-85-1, and 8-85-1. Dense aspen. Stand is approaching merchantability. Has good access. Lots of hardwood competition. Do nothing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 30 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 10 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 60 | Pole/Sapling | 7 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 4130 - Aspen | Sapling Well | 19.8 | 16 | Immature | N/A | Dense aspen sapling stand with scattered mixed upland deciduous. young aspen stand. cut in 2006. good regen. did not walk whole stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 75 | Sapling | 2 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Sapling/Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 5 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 4116 - Mixed N. Hardwood - Aspen | Sawtimber Poor | 29.3 | 79 | 1-50 | N/A | Decent sugar maple regen especially where it has been protected from browse within the tops left from harvest. Poor sugar maple regen in skid trails and around the perimeter. Cherry regen in dense patches scattered throughout the sale. Very difficult to walk through due to complete coverage of blackberry. Harvest update: was shelterwood harvested, by variance, as part of the MWR hardwood research project in Dec 2017 (72-012-17-01), cutting stems 2"+ DBH except green-marked (40 sq. ft. cruised residual). All top material <9" DOB and trees <9" DBH were spec'd to be left scattered across the harvest area. Regeneration will be monitored through the research project for at least 5 years. PM: This is the nicest stand I have walked through in a while. It has some large beech, oak and some aspen along the north and south edges of the stand but other than that it is all sugar maple. It is nice, tall straight and clean sugar maple. There is virtually zero regeneration underneath however. It is all blackberry as far as you can see. There would be a huge volume of logs coming out of this stand if cut, but I am concerned that it would not regenerate. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 45 | Log | 12 | 79 | Cherry (spp.) | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 10 | Log | 14 | | Sugar Maple | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow Birch | 5 | Pole | 8 | | Blackberry/Raspberry | Full | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Log | 9 | | Beech | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 20 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 42110 - Planted Red Pine | Sawtimber Well | 24.2 | 54 | 81-110 | N/A | Harwod regen is primarily oak with some red maple and beech. Decent Red pine. Stand was planted in 1967. heavy hardwood understory coming in. Has started to self prune. Do nothing at this time. Was third row thinned in 2006. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 100 | Log | 10 | 54 | Beech | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Choke Cherry | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Red Oak | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Red Maple | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 7.1 | 70 | 51-80 | N/A | MUD stand with some pine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Log | 10 | | Witch Hazel | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 30 | Pole | 6 | | White Pine | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 30 | Pole/Log | 8 | 70 | Beech | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 30 | Log | 10 | 82 | Red Maple | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|-----------------|-------|-----------|--------------------|--------------|--|----------------|---------|------------|-----|-----|--------------------|---------|-------------|------|----------|------------------|-----|---------|----|-------|------------------|--------------|----------|----|----|---------------|----|--------------|-------------|--------|--------------|---------|------|---|--|----------|---|------|---|--|
| 30 | 4131 - Aspen, Oak | Poletimber Well | 16.4 | 35 | 51-80 | N/A | Aspen pole stand. some openings with cherry. Stand was cut in 1987 sale 9-85-1. Larger diameter trees along CR 612. Probably left for visual. Stand is regenerating nicely. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 10 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 45 | Pole | 5 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 27 | Log | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 3 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 4116 - Mixed N. Hardwood - Aspen | Poletimber Well | 4.0 | 75 | 81-110 | N/A | Poor quality red maple and aspen. Wire fence close to northern boundary. aspen/red maple stand that is of merchantable size. Very small stand, lots of private line. Previous inventory said to hold for ten years before treating. I am not recommending treatment. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 40 | Pole | 7 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 30 | Pole | 7 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 30 | Pole/Log | 9 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 42110 - Planted Red Pine | Sawtimber Well | 35.2 | 55 | 171-200 | N/A | Northern hardwood regeneration in the understory. Red pine has small crowns. Stand contains powering ROW parallel to southern edge. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 100 | Log | 11 | 55 | Beech | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 122 - Road/Parking Lot | Nonstocked | 1.3 | 0 | Unspecified | No | County Rd 612. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 122 - Road/Parking Lot | Nonstocked | 2.6 | | Immature | | processing facility. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 4130 - Aspen | Sapling Well | 2.9 | 25 | Immature | N/A | Small regeneration stand along forest road. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 20 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 5 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 15 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 60 | Sapling | 2 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 310 - Herbaceous Openland | Nonstocked | 7.0 | | Unspecified | No | pipeline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|------------------|------------|------------|----------|--------------|--|----|--------------|---|----|----------------------|----|--------------|----|----|---|----|--------------------|---------|-------------|---|-----------|--------------------|-------------|-------------|----------------------|-----------|-------------|-------------|--|---|-----|-------------|---------|--|------------------|---|------|---|--|-----------|----|------|---|--|---|--|--------------------|---------|-------------|------|-------|--------|-------------|------------|--|--|--|--|
| 39 | 4123 - Red Oak | Sawtimber Medium | 27.7 | 85 | 51-80 | N/A | Transitional stand from pine plantation in the valley to oak uplands. Motorcycle trail traverses the southern third of the stand. Higher BA residual in this portion of the harvest in 2010. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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 Oak</td> <td>90</td> <td>Pole/Log</td> <td>9</td> <td>85</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Red Oak | 90 | Pole/Log | 9 | 85 | White Pine | 5 | Log | 10 | | White Oak | 5 | Pole/Log | 9 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Red Maple | Low | 5 - 10 feet | Sapling | Bigtooth Aspen | Low | 5 - 10 feet | Sapling | Stand was cut in 2010. Oak ridge thin again. Lots of red maple and aspen regen. Minimal oak coming back. ORV trail passes through stand. Did not core oak due to oak wilt. | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 90 | Pole/Log | 9 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Log | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 5 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 4123 - Red Oak | Sawtimber Medium | 15.1 | 75 | 51-80 | N/A | Higher density residual pocket from harvest in 2010. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 90 | Log | 9 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 6127 - Lowland Pine | Poletimber Well | 4.3 | 88 | 81-110 | N/A | S;lit from stand 46. This stand is a low ground swale that contains alder brush and cedar with upland species along the edges. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 2 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 20 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 20 | Log | 12 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 8 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 20 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 6122 - Black Spruce | Poletimber Well | 14.7 | 60 | 51-80 | N/A | Strip of nearly pure black spruce. Sphagnum moss and labrador tea. Very dense with small diameter stems and good height. Jack Pine and some black spruce. Becomes more lowland conifer as you approach the river. Some mortality in the jack pine. It is very tall but does not have much diameter to it. Not going to cut due to the proximity of the river and the houses directly across from the stand. It would most likely convert to cherry brush. Manistee River Flood plains. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 5 | Pole | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 90 | Pole/Sap/Log | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 5 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 6120 - Lowland Cedar | Poletimber Well | 15.8 | 60 | 51-80 | N/A | Cedar over mixed fir and spruce. Scattered individual paper birch with patches of red maple. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 25 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 3 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 2 | Log | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 20 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 50 | Pole/Log | 8 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------|------------|------------|----------|--------------|--|----|--------------|----|----|-------------|----|--------------|----|----|----------------|----|--------------|---|----|--|----|--------------------|---------|-------------|---|---------|--------------------|-------------|--------------------------------------|--------------|--------|-------------|-------------|------------|-----------|-------------|--------------|--|------------|-----|-------------|---------|--|---|--|
| 44 | 6124 - Lowland Spruce-Fir | Poletimber Well | 13.3 | 60 | 51-80 | N/A | Tamarack over balsam fir, spruce, and cedar. Pockets of alder brush. Some mortality in the overstory. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 40 | Pole | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 20 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 30 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | 42220 - Natural Jack Pine | Poletimber Well | 16.2 | 60 | 51-80 | N/A | More dense pocket of jackpine bordered by black spruce to the east and open cherry brush/jackpine to the west. Openings contain sweet fern, blueberry, and caribou moss. Jack Pine and some black spruce. Becomes more lowland conifer as you approach the river. Some mortality in the jack pine. It is very tall but does not have much diameter to it. Not going to cut due to the proximity of the river and the houses directly across from the stand. It would most likely convert to cherry brush. Manistee River Flood plains. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 15 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 85 | Pole | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 3.7 | 60 | 51-80 | N/A | Stand contains a parking/turnaround and is adjacent to pipeline ROW along the county line. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole/Sap/Log</td> <td>6</td> <td>60</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>15</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Northern Pin Oak | 10 | Pole | 5 | | Paper Birch | 5 | Sapling | 3 | | Quaking Aspen | 30 | Pole/Sap/Log | 6 | 60 | White Pine | 10 | Pole/Log | 9 | | Red Pine | 15 | Log | 12 | | Jack Pine | 10 | Pole | 5 | | Red Maple | 10 | Sapling/Pole | 3 | | | | | | <p>Nice mixed stand. Has a low area right up near the river. Some nice log sized red pine. Do not recommend cutting due to the proximity to the river and being right along CR 612. Re-evaluate in ten years.</p> | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 10 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 30 | Pole/Sap/Log | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 15 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 10 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | 122 - Road/Parking Lot | Nonstocked | 13.3 | 0 | | No | Fairly open stand. Jack pine with various hardwoods mixed in throughout. Pretty variable BA's. Do nothing at this time. Has some old pine stumps scattered throughout stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 4125 - Black, N. Pin Oak | Sawtimber Well | 34.3 | 85 | 1-50 | N/A | Split from parent stand. Higher BA retained during harvest than adjacent stand to the west. MUD regen present. Some overstory mortality. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>72</td> <td>Log/XLog</td> <td>17</td> <td>85</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log</td> <td>13</td> <td>85</td> </tr> <tr> <td>White Oak</td> <td>18</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black/Red (Hybrid) Oak | 72 | Log/XLog | 17 | 85 | Red Maple | 10 | Log | 13 | 85 | White Oak | 18 | Pole/Sap/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Aspen (spp.)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Red Oak | Low | 5 - 10 feet | Sapling | Aspen (spp.) | Medium | 5 - 10 feet | Sapling | Red Maple | High | 5 - 10 feet | Sapling | <p>Thinned to 70 in 2010. 8-10 foot regeneration, seems to be coming in well. Lots of RM and Aspen, minimal oak regen. Did not core due to oak wilt.</p> | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 72 | Log/XLog | 17 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Log | 13 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 18 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aspen (spp.) | Medium | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 4131 - Aspen, Oak | Sapling Well | 16.3 | 13 | Immature | N/A | Harvested in 2009. 10-20 foot regeneration, Lots of RM and Aspen, minimal oak regen. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 10 | Sapling | 1 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 10 | Sapling | 2 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 40 | Sapling | 2 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 40 | Sapling | 2 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------|---------|------------|-------------|--------------|--|----|----------|---|----|------------------|----|---------|---|----|------------------------|----|--------------|---|----|------------------------|----|----------|----|----|--|----|---------|---|----|--|---|--------------------|---------|-------------|---|--------------|--------------------|--------------|-------------|---------------|---------|-------------|-------------|-----------|-----------|--------------|-------------|--|--|--|
| 50 | 4310 - Pine, Oak Mix | Sawtimber Well | 9.3 | 85 | 51-80 | N/A | Transition stand from pine flats to hardwood hills. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Pole/Log | 9 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 40 | Pole | 7 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 10 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 30 | Log/Pole | 12 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aspen (spp.) | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cherry (spp.) | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 790 - Other Bare/Sparsely Vegetated | Nonstocked | 1.0 | | | No | Well site, lots of knapweed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | 330 - Low-Density Trees | Nonstocked | 0.9 | 0 | | No | Old landing or gas well site. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 5.9 | 34 | 81-110 | N/A | Pocket of white pine split from stand 12. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 10 | Sapling | 3 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 15 | Sapling | 4 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 40 | Pole/Sapling | 6 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 5 | Sapling | 3 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 54 | 330 - Low-Density Trees | Nonstocked | 2.2 | 0 | Unspecified | No | Possible old timber sale landing area. Thinned to 70 in 2010. 8-10 foot regeneration, seems to be coming in well. Lots of RM and Aspen, minimal oak regen. Did not core due to oak wilt. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 7.6 | 13 | 1-50 | N/A | Island that was thinned heavier in last harvest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 5 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Sapling | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black/Red (Hybrid) Oak | 15 | Sapling | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 40 | Sapling | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 30 | Sapling | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 5 | Sapling | 2 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | High | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 56 | 4131 - Aspen, Oak | Sapling Well | 6.6 | 35 | 1-50 | N/A | Aspen, maple, and a trace of oak regen. Oak is struggling to keep up with the rest of the hardwoods. Scattered remnants of parent oak stand remain standing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Oak | 10 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 40 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 40 | Sapling | 4 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|-----------------|-------|-----------|----------|--------------|--|----------------|---------|------------|-----|-----|-----------|----|----------|---|----|-----------|----|------|----|--|---------------|----|------|----|--|----------------|----|---------|---|--|--------------|----|---------|----|----|
| 58 | 4319 - Mixed Upland Forest | Poletimber Poor | 6.4 | 43 | 1-50 | N/A | This is a transitional stand from upland jack pine to the Manistee river corridor. Contains 150' natural rivers site condition. Open stand, has a good mix of species throughout. Do nothing at this time. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>30</td> <td>Pole</td> <td>6</td> <td>43</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Choke Cherry</td> <td>30</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table> | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 30 | Pole | 6 | 43 | Red Maple | 10 | Pole | 5 | | Quaking Aspen | 15 | Pole | 6 | | White Pine | 15 | Sapling | 3 | | Choke Cherry | 30 | Sapling | 3 | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 30 | Pole | 6 | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 15 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke Cherry | 30 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 127 | 4116 - Mixed N. Hardwood - Aspen | Sawtimber Well | 112.1 | 79 | 81-110 | N/A | Mixed quality northern hardwoods. NW portion of the stand has higher component of red maple and aspen. Harvest update: 29 acres of the original stand were shelterwood cut as part of the MWR hardwoods research project in 2017. That block was split off but retained stand number 27 for tracking purposes. PM: This is the nicest stand I have walked through in a while. It has some large beech, oak and some aspen along the north and south edges of the stand but other than that it is all sugar maple. It is nice, tall straight and clean sugar maple. There is virtually zero regeneration underneath however. It is all blackberry as far as you can see. There would be a huge volume of logs coming out of this stand if cut, but I am concerned that it would not regenerate. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <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>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>20</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Log</td> <td>9</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>40</td> <td>Log</td> <td>12</td> <td>79</td> </tr> </tbody> </table> | | | | | | | | Canopy Species | % Cover | Size Class | DBH | Age | Red Maple | 10 | Pole/Log | 8 | | Beech | 10 | Log | 14 | | Red Oak | 20 | Log | 11 | | Bigtooth Aspen | 20 | Log | 9 | | Sugar Maple | 40 | Log | 12 | 79 |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 10 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 20 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 40 | Log | 12 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |