



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52035

Entry Year 2026

Acreage: 2,924

County Charlevoix

Management Area: Wolverine Moraines

Stand Examiner: Doug Tyran

Legal Description:

T 33N, R 04W, Sections: 3, 4, 9, 10, 15, 16

Identified Planning Goals:

Maintain the state forest resource in a healthy condition to meet: State Forest Management Plan Objectives, Wildlife Habitat Improvement, & Recreational Use.

Soil and topography:

Soils are of the Leelanau-Emmet association. Topography ranges from nearly level to severely hilly.

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

There is mostly state land in and around the compartment with some private ownership, primarily residences, abandoned farmland, and hunting camps.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

There is beaver activity in Section 16. An active Goshawk Nest was observed during inventory in the NW corner of Section 9. There was a historic comments about a red shoulder hawk nest (none was observed).

Watershed and Fisheries Considerations:

Most of this compartment is in Central Lake Michigan Management Unit (CLMMU). The small portion that is in the Northern Lake Huron Management Unit has no surface water features, so NLHMU has no concerns at this time.

The portion of the compartment within CLMMU contains wetlands and feeder streams associated with the Bear River. Best management practices should be utilized to buffer the clear cut along the stream if water or wet soils are present.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, and woodcock. Hardwood treatments will provide within stand structural diversity and pockets of early successional habitat benefiting songbirds, and deer. Woody debris will benefit pine marten populations. Openings are prescribed to be maintained in this compartment benefiting deer, turkey, grouse, and song birds..

Mineral Resource and Development Concerns and/or Restrictions

The closest known sand/gravel pit is an old State-owned pit, Bear River Road Pit, two miles northwest. There may be some potential for sand & gravel within the compartment on the uplands, but surficial sediments in the area appear to be clay-rich. In addition, demand for aggregate in the area may be low, primarily limited to the need for local road maintenance. The compartment is north of the main Antrim Shale gas play. The Antrim is thinning in this direction, and any Antrim wells drilled in this area would likely be marginally productive and uneconomic. Furthermore, pipeline infrastructure has not been developed in this area. Many Antrim wells completed just south of the compartment have been orphaned as a function of the above and the relatively low price of natural gas. There was some past interest in development of the Collingwood Formation in this area, but that has not proven to be an economic play to date and interest has waned. There has been no recent well permit activity in the area and no recent oil & gas leasing activity involving State-owned mineral rights in the area of the compartment. Potential for oil & gas development within the compartment is considered low at this time. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Harmon Road bisects the compartment north to south. A network of forest trails provides access throughout the

compartment, though poor conditions limit two-wheeled traffic in a majority of places. A Director's Order denies wheeled vehicles access to the east half of the east quarter of Section 16.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The North Country Trail traverse through Sections 4, 9, and 16. The snowmobile trail follows Harmon Road, and traverses through section 9. The ORV trail follows Harmon road between sections 15 & 16, and traverses through section 15. Dispersed camping present in section 15.

Fire Protection:

A majority of this compartment are deciduous cover types, which are somewhat resistant to large contiguous wildfires. However, given the right conditions fires could certainly occur, most probable from adjacent private landowners or recreationists. Best access is along the county roads, otherwise access may be limited. There is a historic burn unit in Section 3 to be maintained as part of the CCC field burns.

Additional Compartment Information:

The following reports from the Inventory are attached:

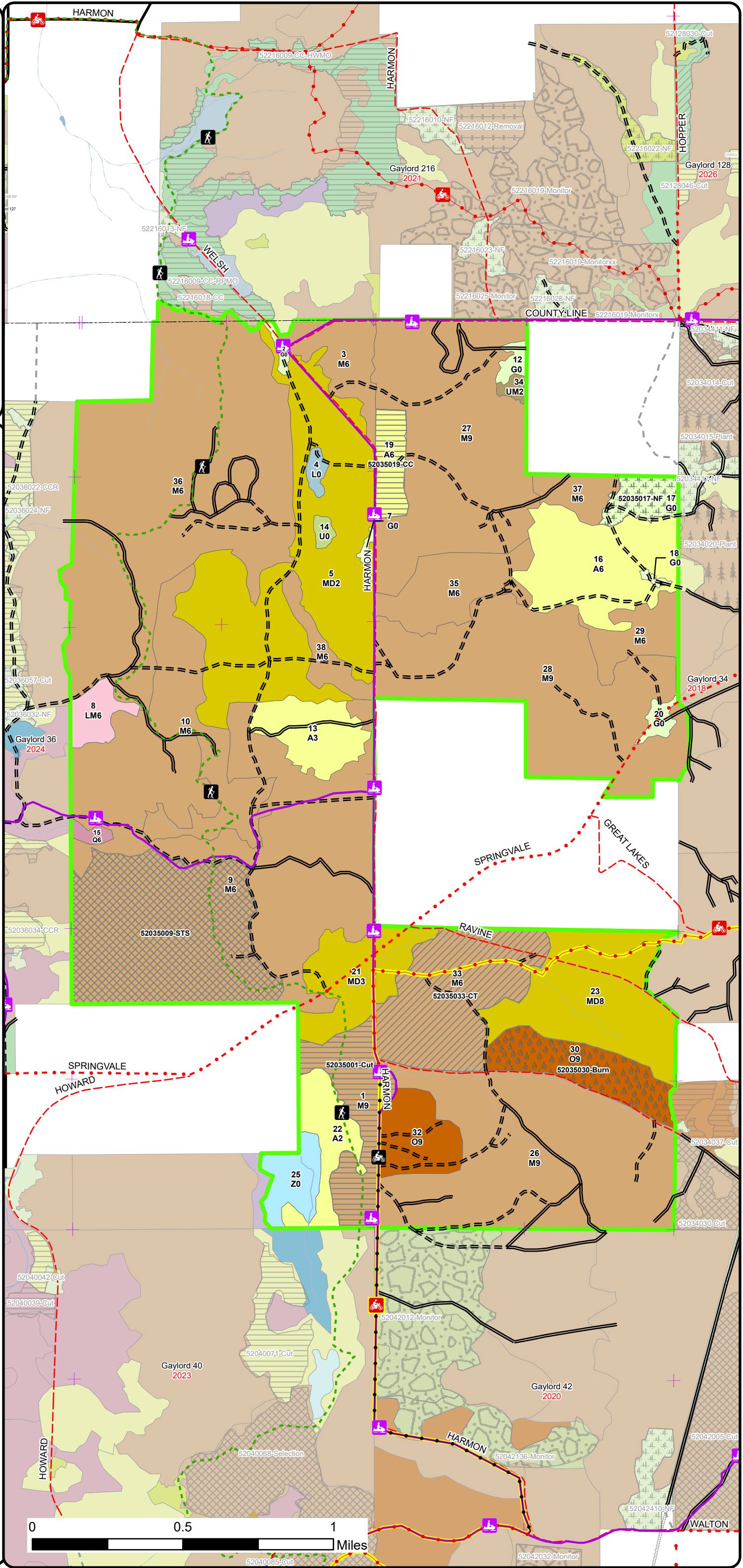
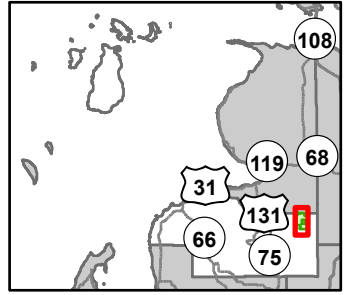
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

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

Cover Type & Treatments Map

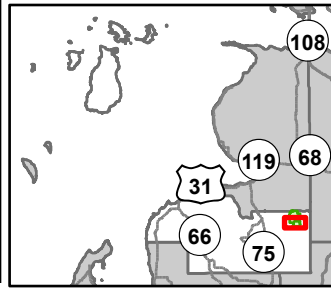
Compartment: 52035
 T33N, R4W, Sec: 3, 4, 9, 10, 15, 16
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Wolverine Moraines
 YOE: 2026
 Acres: 2923.7 GIS Calculated
 Examiner: Doug Tyran
 Map Revised: 5/10/2024
 Map Phase: Web Post



- Hiking Trails
- Motorcycle Trails (SOS License)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- Snowmobile Trails
- Designated Hiking Trails
- ORV License
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Culvert
- DNR - Secondary Forest Road
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- Counties
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
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- 500 - Water
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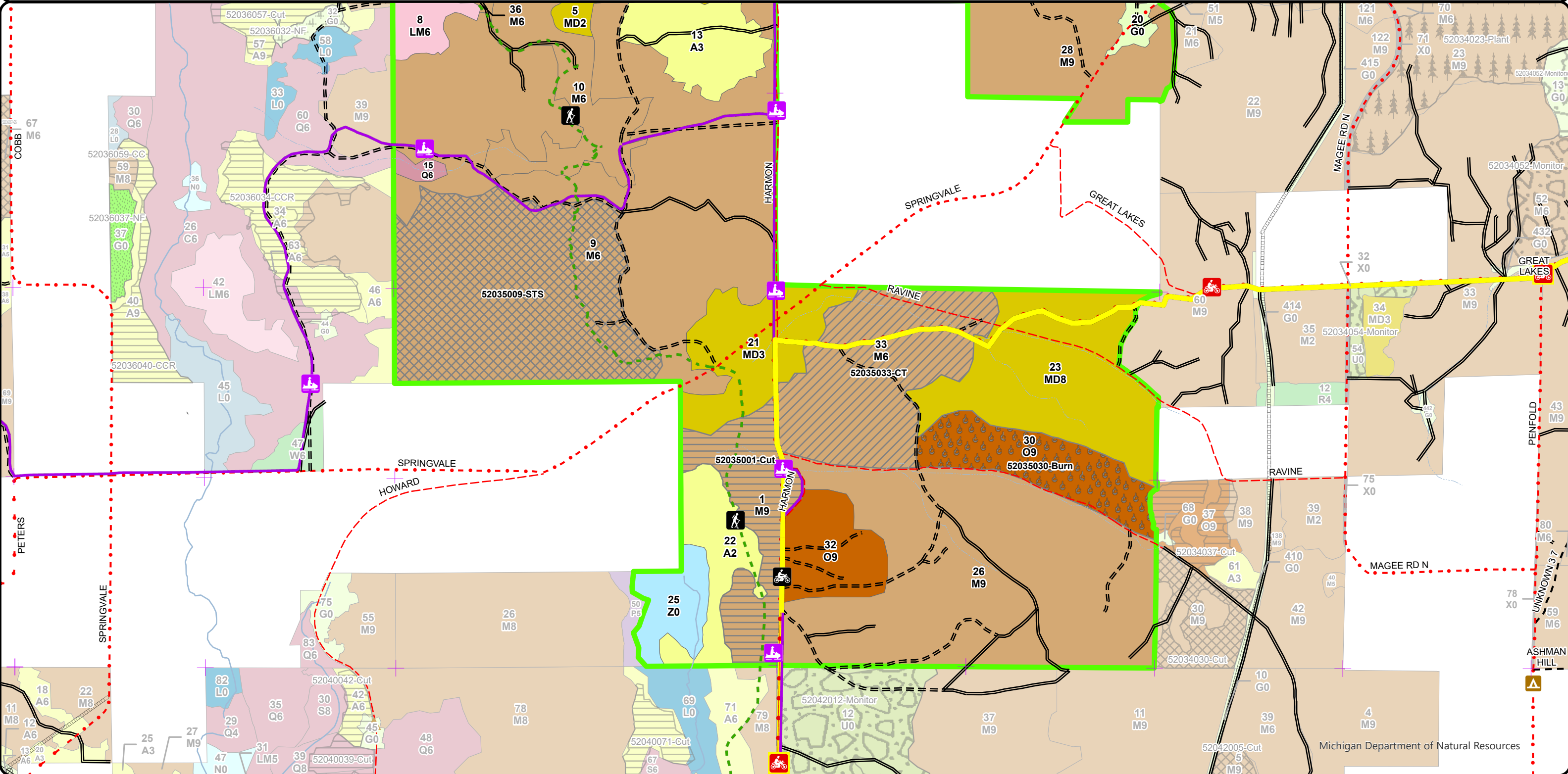
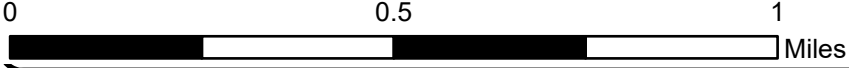
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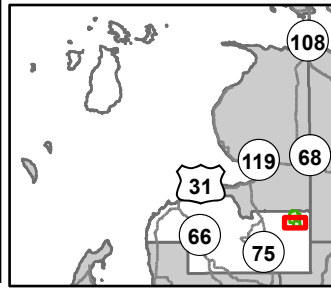
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Stand Boundary Map



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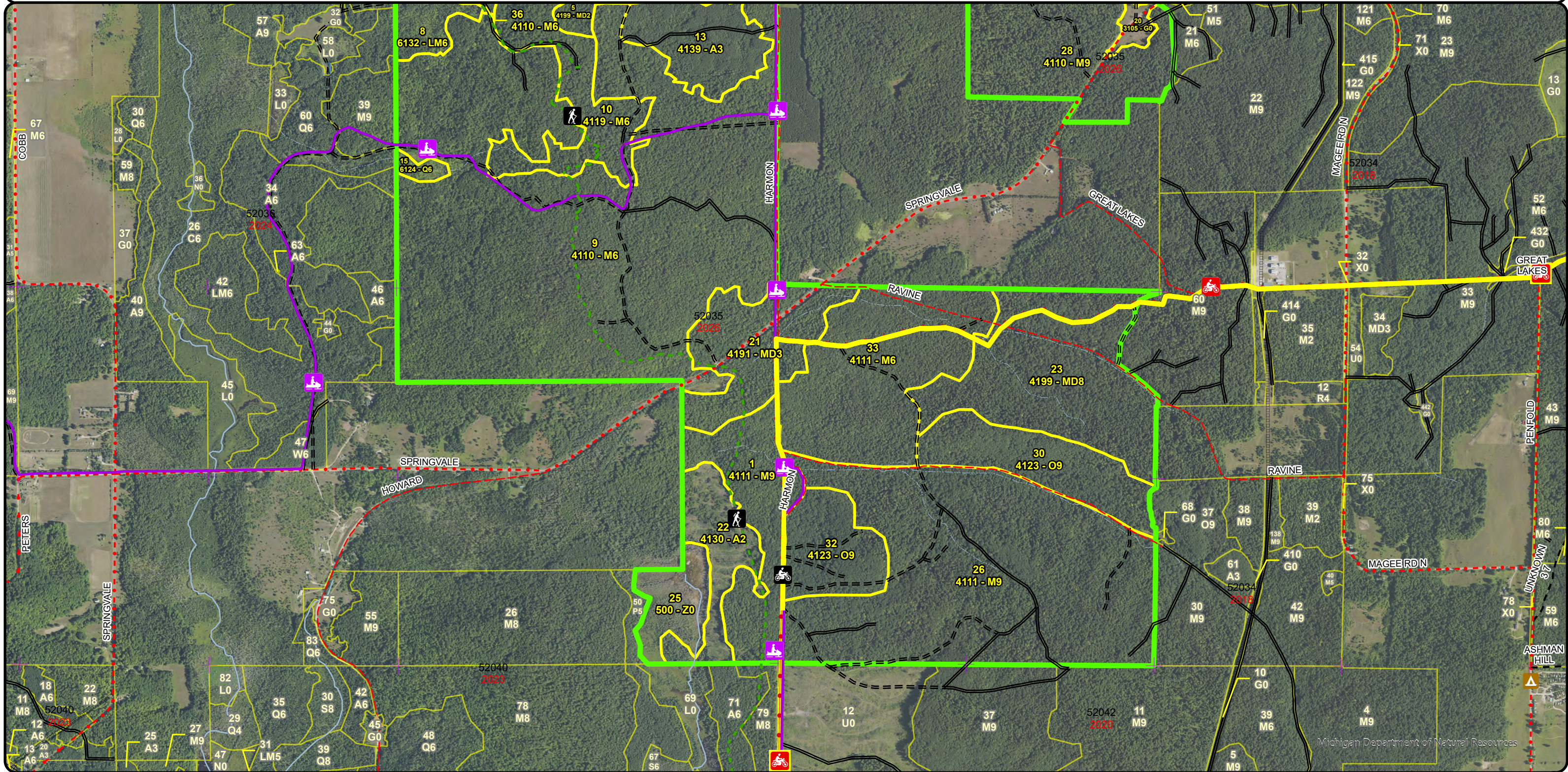
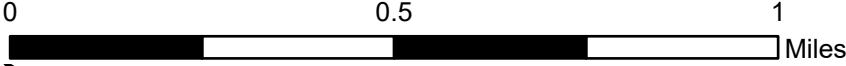
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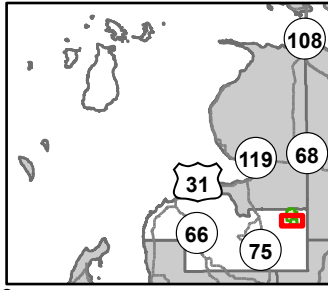
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Special Conservation Areas & Site Conditions Map

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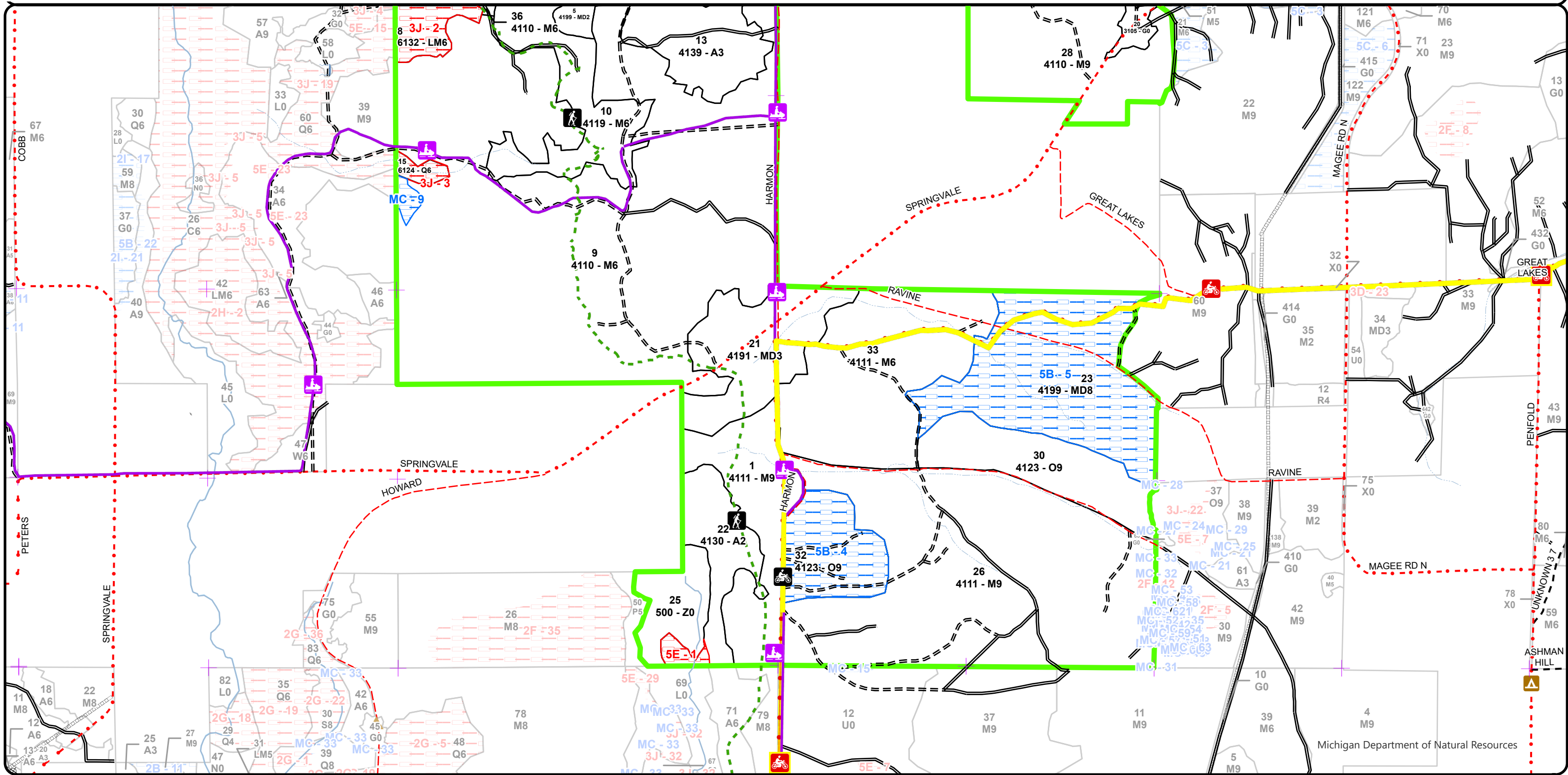
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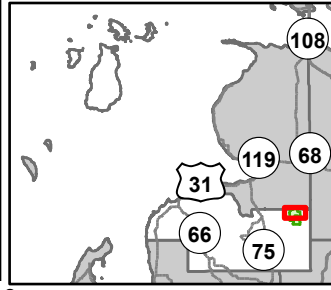
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- Counties
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



Cover Type & Treatments Map



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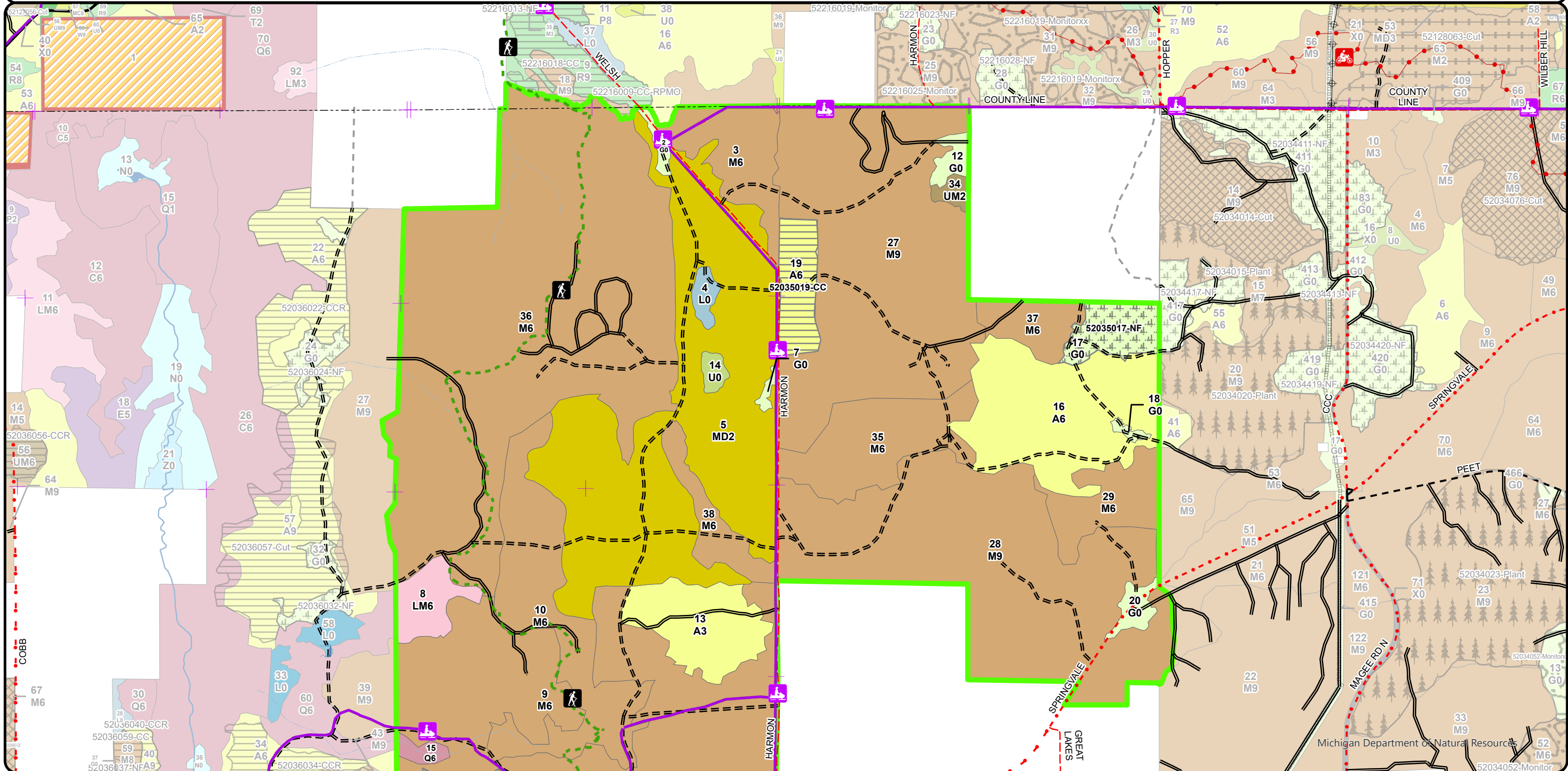
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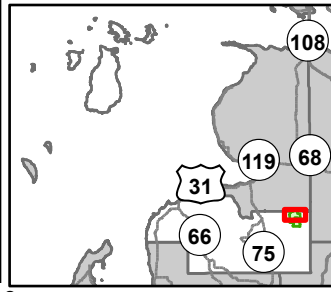
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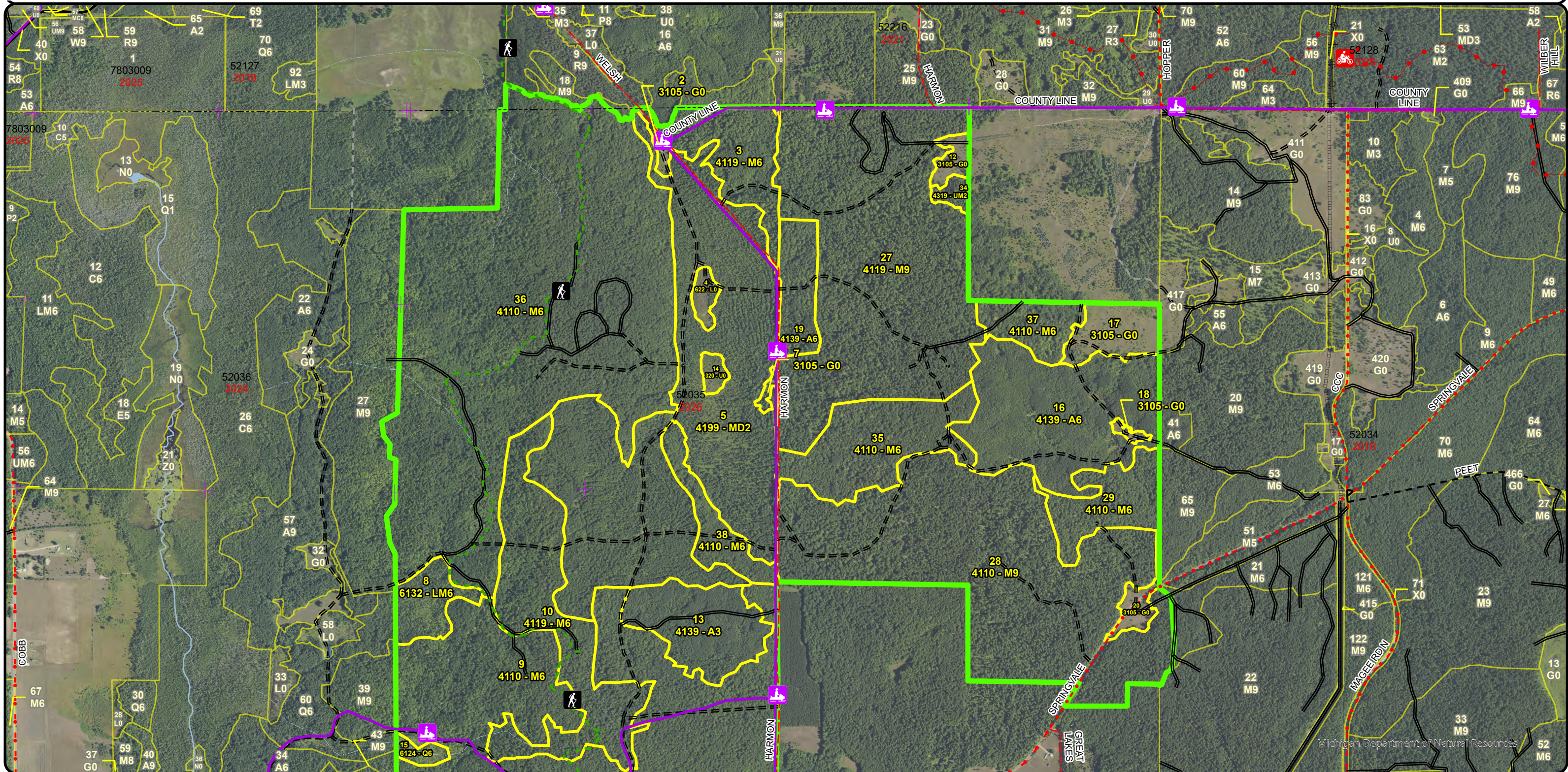
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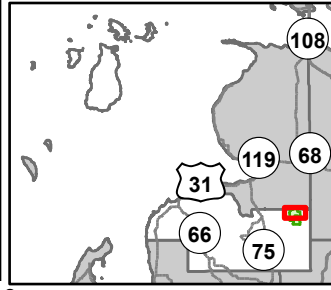
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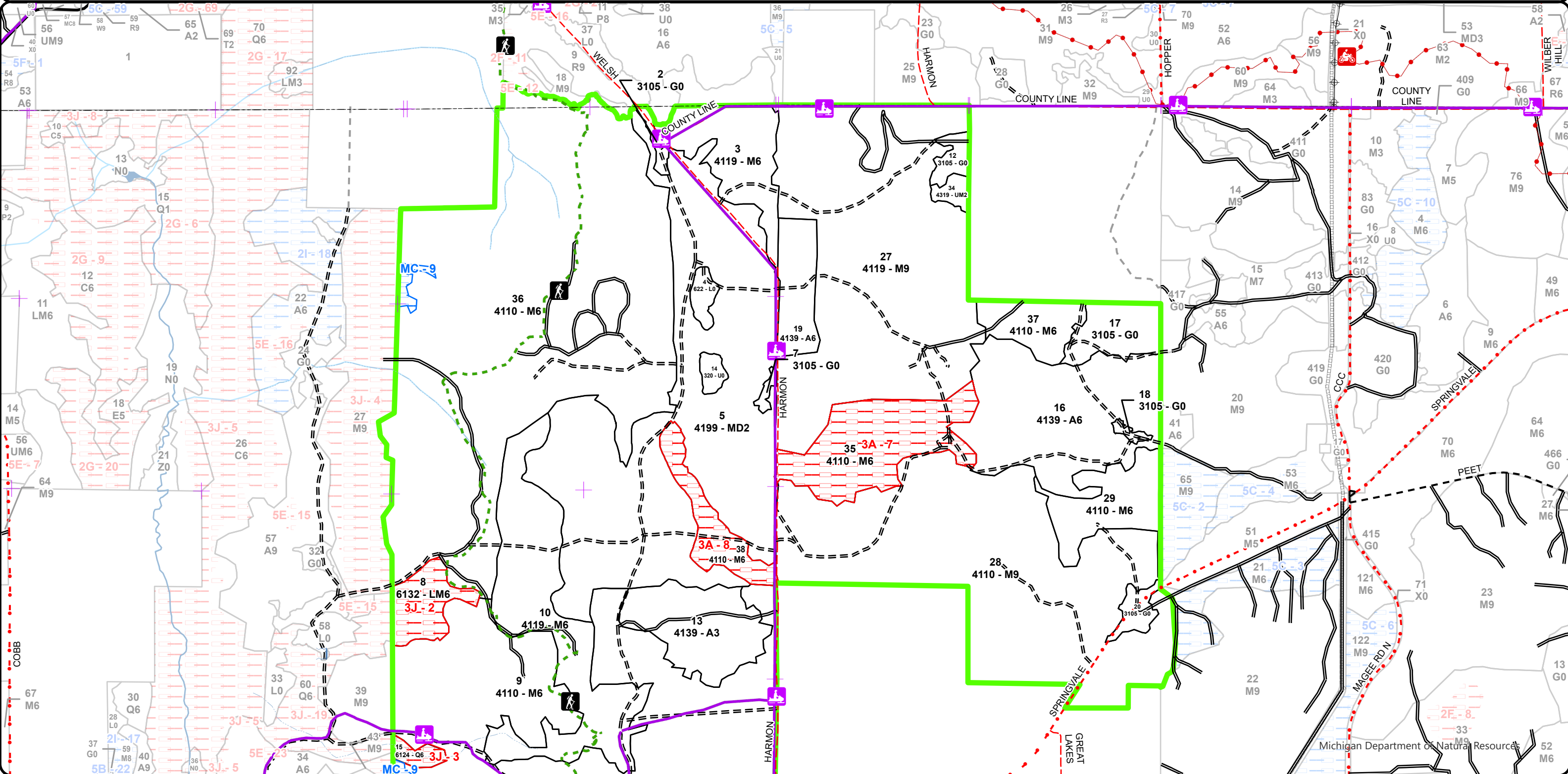
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- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Unnever-Aged | Total |
|------------------------|------------|-----------|----------|------------|------------|----------|-----------|------------|----------|----------|----------|-------------|------------|----------|----------|----------|----------|--------------|-------------|
| Aspen | 0 | 39 | 0 | 44 | 99 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 205 |
| Herbaceous Openland | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Lowland Shrub | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 254 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 438 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 90 | 0 | 0 | 0 | 1572 | 380 | 0 | 0 | 0 | 0 | 0 | 2082 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 96 |
| Upland Mixed Forest | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Upland Shrub | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Water | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Total | 77 | 39 | 0 | 302 | 162 | 0 | 59 | 118 | 0 | 0 | 0 | 1789 | 380 | 0 | 0 | 0 | 0 | 0 | 2925 |



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 35

Total Compartment Acres: 2,924

Commercial Harvest - 396
 Harvests with Site Condition - 0
 Next Step Harvest - 55
 Habitat Cut - 55

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|-------------------|-----------|------------|----------------|-----------|-------------|------------|-------------------|----------|----------|-------------|
| Aspen | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Northern Hardwood | 65 | 191 | 0 | 0 | 0 | 117 | 0 | 0 | 0 | 373 |
| Total | 87 | 191 | 0 | 0 | 0 | 117 | 0 | 0 | 0 | 396 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|-----------|-----------|------------|-----------|-----------------|-------------|
| Current | 396 | 0 | 0 | 0 | 55 | 0 | 0 | 21 | 0 | 472 |
| Next Step | 55 | 0 | 0 | 0 | 0 | 0 | 635 | 0 | 0 | 691 |
| Total | 451 | 0 | 0 | 0 | 55 | 0 | 635 | 21 | 0 | 1162 |



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

Proposed Treatments:

| | | | | | | | | | | | |
|---|---------------------|-------|---------------------------------------|----------------|-----|----------|---------|-------------------------|-------------------------------------|-------------|----|
| 1 | 52035001-Cut | 64.6 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 100 | 111-140 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription Specs:</u> Cut all trees 2" and up, do not cut conifer for structural diversity, potential seed source and wildlife. Leave 3-10% area retention focusing around hemlock and oak.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, Basswood, Oak, Pine & Aspen, that meet minimum stocking requirements.</p> <p><u>Other Comment:</u> Add recreational trail specs. Contact Rec Trails specialist to consider re-route. Goal is to create some age class diversity (due to lack of undesirables in the understory) may be a good opportunity to regenerate some Maple, Basswood, and Oak with some pine or aspen.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p> | | | | | | | | | | | |
| 9 | 52035009-ST5 | 191.2 | 4110 - Sugar Maple Association | Poetimber Well | 105 | 81-110 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven-Aged | No |
| <p><u>Prescription Specs:</u> Thin to 70-90 BA. Look for opportunities to maintain aspen by putting in mini-clearcuts when aspen clones are encountered. A focus on promoting stand species diversity should be maintained. Place regeneration gaps of 1/10th acre at a rate of one for every two acres.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of northern hardwood species and aspen where present.</p> <p><u>Other Comment:</u> Add recreational trail/snowmobile specs. Contact Rec Specialists about rerouting trail. This area was previously prescribed in 2016 YOE and was set up as part of Almost There HDWDS , but was never cut. Orange painted trees are still easily found, red line and payment unit lines may need to be re-painted. Then re-cruised to calculate volume. *Original prescription had them cutting all beech and ash (all ash are surely dead so was dropped from this Rx). Also dropped cutting all beech to mitigate ash/beech understory problem</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p> | | | | | | | | | | | |
| 17 | 52035017-NF | 20.5 | 3105 - Mixed Upland Herbaceous | Nonstocked | | Immature | Other | Other | 3105 - Mixed Upland Herbaceous | | No |
| <p><u>Prescription Specs:</u> Burn, brush, mow, plant and/or herbicide to maintain opening.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p> | | | | | | | | | | | |



Standard

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

| | | | | | | | | | | | |
|-----------|--------------------|------|-------------------------------|-----------------|----|---------|---------|----------|-------------|-----------|----|
| 19 | 52035019-CC | 22.7 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 60 | 111-140 | Harvest | Clearcut | 413 - Aspen | Even-Aged | No |
|-----------|--------------------|------|-------------------------------|-----------------|----|---------|---------|----------|-------------|-----------|----|

Prescription Final harvest stand, cut all trees 2" and up. No retention due to stand age, to mitigate browse, and maximize full sun for aspen regeneration
Specs:

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

Acceptable Regen: Aspen, Maple, Cherry, & Basswood that meet minimum stocking requirements.

Other Comment: Add grouse/hare/deer log spec.
Add snowmobile spec.

Site Condition
Proposed Start Date: 10/1 /2025

| | | | | | | | | | | | |
|-----------|----------------------|------|----------------|----------------|-----|---------|------|------------|-----------------|-----------|----|
| 30 | 52035030-Burn | 55.2 | 4123 - Red Oak | Sawtimber Well | 101 | 111-140 | Burn | Understory | 412 - Oak Types | Even-Aged | No |
|-----------|----------------------|------|----------------|----------------|-----|---------|------|------------|-----------------|-----------|----|

Prescription Burn understory as needed to set back undesirables and open seed bed prior to timber harvest.
Specs:
Timber Harvest: Final harvest stand, cut all tree's 2" and up. Do not cut any hemlock. Leave 5-10% area retention in islands between 1/4 to 1/2 acre in size focusing on large crowned oak for mast production, try to include hemlock and birch where possible. Goal is to allow a steady seed source for future seedling establishment evenly spread out throughout.

Require producer to pile treetops on and around stumps of harvested oak to protect the stump sprouts from browse.

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Harvest, Clearcut with Retention; Monitoring,
Treatments: Natural Regen (Re-Inventory)

Acceptable Regen: Oak dominated with minor components of Maple, Aspen & Basswood

Other Comment: Set up timber sale in normal POW workflow, do not sell the sale until the unit is burned. Require one year contract on harvest.
Perform year 1 & 3 year post harvest regeneration checks to assess the effectiveness of burning and placing tops on stumps

Site Condition
Proposed Start Date: 10/1 /2025

| | | | | | | | | | | | |
|-----------|--------------------|-------|---------------------------------------|-----------------|-----|---------|---------|----------------|-------------------------|-------------|----|
| 33 | 52035033-CT | 117.3 | 4111 - S.Maple, Hard Mast Association | Poletimber Well | 113 | 111-140 | Harvest | Crown Thinning | 411 - Northern Hardwood | Uneven-Aged | No |
|-----------|--------------------|-------|---------------------------------------|-----------------|-----|---------|---------|----------------|-------------------------|-------------|----|

Prescription Mark stand with a target residual BA of 70. Mark poor formed trees first. Favor Diversity. Don't mark trees within 33 ft. of any hemlock.
Specs: Protect well formed sugar maple poles and saplings.

Next Step
Treatments:

Acceptable Regen: Not a regeneration harvest

Other Comment: BA is set at 70 with a goal to allow additional growing space for increased crown growth. .
Add recreational trail spec.

Site Condition
Proposed Start Date: 10/1 /2025

Total Treatment 471.5
Acreage Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
Doug Tyran : Examiner

Compartment: 35
Year of Entry: 2026

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | |
|----------------|--------------------|----------------|---------------|--------------------------|--------------------------|----|----|----|----|
| | | With Condition | Not Available | | 5B | MC | 3A | 3J | 5E |
| 204 | 200 | 0 | 4 | Aspen | | | | | 4 |
| 40 | 40 | 0 | 0 | Herbaceous Openland | | | | | |
| 5 | 0 | 0 | 5 | Lowland Conifers | | | | 5 | |
| 19 | 0 | 0 | 19 | Lowland Mixed Forest | | | | 19 | |
| 5 | 5 | 0 | 0 | Lowland Shrub | | | | | |
| 438 | 317 | 121 | 0 | Mixed Upland Deciduous | 121 | | | | |
| 2081 | 1996 | 7 | 79 | Northern Hardwood | | 7 | 79 | 0 | |
| 96 | 55 | 41 | 0 | Oak | 41 | | | | |
| 4 | 4 | 0 | 0 | Upland Mixed Forest | | | | | |
| 4 | 4 | 0 | 0 | Upland Shrub | | | | | |
| 27 | 27 | 0 | 0 | Water | | | | | |
| 2,924 | 2,649 | 169 | 106 | Total Forested Acres | 162 | 7 | 79 | 23 | 4 |
| | 91% | 6% | 4% | 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 | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 19 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 5 | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Gaylord Mgt. Unit
Doug Tyran : Examiner

Compartment: 35
Year of Entry: 2026

| | | | | | | | |
|-----------|-------------|--|-----|-------------|-------------|-------------|-------------|
| 4 | Available | 5B: Maintain for regeneration purposes | 41 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Available | 5B: Maintain for regeneration purposes | 121 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 7 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 57 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 22 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 9 | Available | Minor Change in Acreage | 7 | | | | |
| 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 |
|----------|

Mgt. Unit

Compartment:

Year of Entry



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



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|-----------------|---------|------------|----------|--------------|--|----------------|----|----------|----|----|-------------|----|----------|----|-----|----------|----|--------------|---|-----|--------------|---|----------|---|--|----------|----|----------|----|--|----------|---|-----|----|--|---|---|--------------------|---------|-------------|----------|--------------|-----|----------|---------|--|-----|--------------------|---------|-------------|------|-------------|---------|----------|---------|----------|---------|----------|---------|-------------|---------|----------|---------|
| 1 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 64.6 | 100 | 111-140 | N/A | <p>Pretty unique mix of species than your typical sugar maple dominated stand. No evidence of previous thinning's. QD taken for this stand to derive canopy % and BA of 127 Sq. Ft. / Ac. PDF attached. Data did not capture incidental species so canopy % does not perfectly match.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>7</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>30</td> <td>Log/Pole</td> <td>11</td> <td>100</td> </tr> <tr> <td>Basswood</td> <td>32</td> <td>Pole</td> <td>8</td> <td>100</td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>19</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>4</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Ironwood</td> <td>4</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Log</td> <td>15</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Bigtooth Aspen | 7 | Log/Pole | 11 | | Sugar Maple | 30 | Log/Pole | 11 | 100 | Basswood | 32 | Pole | 8 | 100 | Red Maple | 2 | Pole | 6 | | Red Oak | 19 | Log/Pole | 11 | | Hemlock | 4 | Log | 13 | | Ironwood | 4 | Pole | 6 | | Red Pine | 2 | Log | 15 | | <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>Ironwood</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Ironwood | Low | < 5 feet | Sapling | Beech | Low | < 5 feet | Sapling | Sugar Maple | Low | < 5 feet | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 7 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 30 | Log/Pole | 11 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 32 | Pole | 8 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 19 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemlock | 4 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 4 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3105 - Mixed Upland Herbaceous | Nonstocked | 3.6 | | | No | <p>Not much of a true opening, contains the intersection of County Line Rd/Harmon Rd. Going south from this intersection is the logging trail known as Welsh Rd.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 40.0 | 59 | 81-110 | N/A | <p>Former red pine plantation, top was taken off to allow established hardwoods to grow. There are a few large sawlog sized areas of sugar maple and basswood centrally located in the stand (Likely areas that were too steep to plant to). The rest is pole sized.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 40 | Pole/Log | 8 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 29 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 7 | Pole/Sap/Log | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Elm | 3 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 20 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 1 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 622 - Lowland Shrub | Nonstocked | 5.2 | | Immature | No | <p>Previous inventory had this as forested at 75% black spruce, 25% jack pine/red pine. All spruce are dead except one or two. Jack Pine & Red Pine along the edge are likely remnants of adjacent red pine removal, this is some type of pond or marsh. Joe Pie Weed, Cattail, ect.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

| 5 | 4199 - Other Mixed Upland Deciduous | Sapling Medium | 253.5 | 23 | 1-50 | N/A | This was a red pine overstory removal in 2009. Now a young diverse hardwood stand. A few scattered log/pole sized trees left from the removal. Will be nice a nice stand for the future. Lots of skid trails, but filling into mostly desirable species. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|----------------|------------|------------|------|-----|--|--------------|----|--------------|---|--|----------|----|--------------|---|--|----------|---|--------------|---|--|----------------|----|--------------|---|--|--------------------------|---|---------|---|--|-----------|---|--------------|---|--|-----------|---|---------|---|--|-------|---|--------------|---|--|----------|---|---------|---|--|----------|---|-----|----|--|-------------|---|---------|---|--|-------------|----|--------------|---|----|-------------|---|-----|----|--|--|--|--------------------|---------|-------------|------|----------------------|--------|-------------|
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 15 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 13 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rock Elm | 1 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 20 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serviceberry (Juneberry) | 3 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | 3 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 7 | Sapling/Pole | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 3 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 25 | Sapling/Pole | 1 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 1 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blackberry/Raspberry | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|----------|--------------------------------|------------|-----|--|--|----|---|
| 7 | 3105 - Mixed Upland Herbaceous | Nonstocked | 1.8 | | | No | Some scattered saplings of hardwood and red pine. |
|----------|--------------------------------|------------|-----|--|--|----|---|

| | | | | | | | |
|----------|--|-----------------|------|----|-------|-----|---------------------------------------|
| 8 | 6132 - Mixed Lowland Forest with Cedar | Poletimber Well | 18.7 | 55 | 51-80 | N/A | One big seep that drains to the west. |
|----------|--|-----------------|------|----|-------|-----|---------------------------------------|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|--------------|-----|-----|
| Yellow Birch | 15 | Log | 10 | |
| Balsam Fir | 25 | Pole/Sapling | 8 | |
| Northern White Cedar | 20 | Log/Pole | 10 | 97 |
| Quaking Aspen | 40 | Pole/Log | 9 | 55 |

| | | | | | | | |
|----------|--------------------------------|-----------------|-------|-----|--------|-----|--|
| 9 | 4110 - Sugar Maple Association | Poletimber Well | 495.2 | 105 | 81-110 | N/A | Split out from the big M6 complex to the north. Variable BA, Avg. 100. |
|----------|--------------------------------|-----------------|-------|-----|--------|-----|--|

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Beech | 3 | Log/Pole | 10 | | Sugar Maple | Low | Variable | Sapling |
| Basswood | 30 | Pole/Log | 9 | | Beech | Medium | Variable | Sapling |
| Sugar Maple | 60 | Pole/Log | 9 | 105 | Ironwood | Medium | Variable | Sapling |
| Red Maple | 2 | Pole | 8 | | White Ash | Low | Variable | Sapling |
| Bigtooth Aspen | 3 | Pole | 7 | | Black Cherry | Low | Variable | Sapling |
| Quaking Aspen | 2 | Log/Pole | 10 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|-----------------|-------|-----------|----------|--------------|--|----------------|---------|------------|-----|-----|----------------|----|--------------|---|----|------------|----|--------------|---|----|--------------|----|---------|----|--|---------------|----|--------------|---|--|--------------|----|--------------|---|--|----------------|----|--------------|---|--|-------------|----|---------|---|--|
| 10 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 89.9 | 68 | 51-80 | N/A | Was previously a planted pine site. This stand looks to have been more developed than the stands to the east with similar history. Fairly steep hill going from east to west in this stand. Becoming more level ground at the stand boundary to the east. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 50 | Pole/Sapling | 6 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 8 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 3 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 20 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 17 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 3105 - Mixed Upland Herbaceous | Nonstocked | 6.2 | | | No | Old pasture land converting to sugar maple and red pine. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 44.1 | 26 | 51-80 | N/A | Variable young stand that provides good diversity. Some patches are much smaller than others, likely due to delays in development/establishment. Cut in 1998. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 30 | Pole/Sapling | 5 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | 5 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 2 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 25 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 10 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 11 | Sapling | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 17 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 320 - Upland Shrub | Nonstocked | 3.8 | 0 | | No | This is an opening surrounded by a young mixed deciduous stand. This may be an old landing when they harvested the red pine. Imagery shows red pine growing here prior to harvest. It is filling back into forest. Does not seem lowland. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 6124 - Lowland Spruce-Fir | Poletimber Well | 4.6 | 60 | 51-80 | N/A | Wet seep draining to the west. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Poplar | 10 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | 40 | Pole | 6 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 20 | Pole | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 25 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|--|----------|--------------------|----------|-----------------|--|------------------|--------------|-------------|----------|--------------|--------|--------------|----------|----------------------|--------------------------|-------------|--------------|--------------|-----|----------------|---------|--------------|---|----|----------------|----|--------------|---|----|-------------|---|--------------|----|--|--------------|----|--------------|----|--|-------------|----|--------------|----|-----|--------------|---|--------------|----|--|---|--|--------------------|---------|-------------|------|----------|-----|----------|---------|-------------|-----|----------|---------|-------------|--------|----------|---------|
| 16 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 98.6 | 35 | 81-110 | N/A | A diverse aspen stand with a good hardwood component. Previous examiner stated it seemed small for it's age, and I agree. Some live and dead ash. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 2 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 13 | Sapling | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serviceberry (Juneberry) | 3 | Sapling | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 41 | Pole/Sapling | 5 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 15 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 10 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 6 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | 5 | Sapling/Pole | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 3105 - Mixed Upland Herbaceous | Nonstocked | 20.5 | | Immature | Managed Opening | Great opening for wildlife (slight rolling hills) with cherry, pine and hawthorn scattered throughout, lots of spotted knapweed mixed with little blue stem. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 3105 - Mixed Upland Herbaceous | Nonstocked | 1.7 | | | No | Old landing for the surrounding aspen harvest, reverting back to forest. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 22.9 | 60 | 111-140 | N/A | This was originally typed as part of the hardwood stand to the east. Upon a walk through it was evident this area has a heavy aspen component. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 5 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 4 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 2 | Pole/Sap/Log | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 3 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 40 | Pole/Log | 8 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 6 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 10 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 29 | Log/Pole | 11 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Elm | 1 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 3105 - Mixed Upland Herbaceous | Nonstocked | 6.7 | | Immature | No | Old landing for adjacent timber sale. Opening with a few scattered hardwoods coming in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Spotted Knapweed</td><td>High</td><td>Unspecified</td><td>Non-Wood</td></tr> <tr><td>Bracken Fern</td><td>Medium</td><td>Unspecified</td><td>Non-Wood</td></tr> <tr><td>Mixed Sedges/Grasses</td><td>Medium</td><td>Unspecified</td><td>Non-Wood</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Spotted Knapweed | High | Unspecified | Non-Wood | Bracken Fern | Medium | Unspecified | Non-Wood | Mixed Sedges/Grasses | Medium | Unspecified | Non-Wood | Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spotted Knapweed | High | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bracken Fern | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Sedges/Grasses | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

| | | | | | | | |
|-----------|--|--------------|------|----|------|-----|---|
| 21 | 4191 - Mixed Upland Deciduous with Conifer | Sapling Well | 63.2 | 30 | 1-50 | N/A | Harvested red pine plantation converting to hardwood. Patchy stocking of saplings and poles. BAs were 60, 40, 10, 40, 30. |
|-----------|--|--------------|------|----|------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|--------------------------|---------|--------------|-----|-----|
| Balsam Fir | 5 | Sapling/Pole | 4 | |
| White Pine | 2 | Pole | 8 | |
| Ironwood | 10 | Sapling/Pole | 3 | |
| White Pine | 2 | Sapling | 1 | |
| Black Cherry | 7 | Sapling/Pole | 3 | |
| Beech | 2 | Sapling | 3 | |
| White Pine | 5 | Log | 11 | |
| Serviceberry (Juneberry) | 2 | Sapling | 1 | |
| Sugar Maple | 13 | Sapling/Pole | 2 | 30 |
| Red Pine | 5 | Log | 16 | 95 |
| Red Pine | 2 | Sapling | 1 | |
| Paper Birch | 8 | Pole/Sapling | 5 | |
| Red Maple | 10 | Sapling | 2 | 33 |
| Basswood | 1 | Sapling | 1 | |
| Red Oak | 7 | Pole/Sapling | 7 | |
| Red Maple | 5 | Pole/Sapling | 6 | |
| American Elm | 1 | Sapling | 3 | |
| Quaking Aspen | 11 | Sapling | 2 | |
| Jack Pine | 2 | Pole | 8 | |

| | | | | | | | |
|-----------|--------------|----------------|------|---|----------|-----|---|
| 22 | 4130 - Aspen | Sapling Medium | 38.6 | 3 | Immature | N/A | Harvested summer 2021, pockets of sub merchantable balsam, spruce, cherry, and wildlife shrubs left scattered throughout. For the age the new, regeneration is doing very well. |
|-----------|--------------|----------------|------|---|----------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------------|---------|--------------|-----|-----|----------------------|---------|-------------|------------|
| Black Cherry | 1 | Pole | 7 | | Hawthorn (spp.) | Trace | 5 - 10 feet | Tall Shrub |
| Ironwood | 1 | Sapling/Pole | 4 | | Bracken Fern | Low | Unspecified | Non-Wood |
| Black Cherry | 7 | Sapling | 1 | | Mixed Sedges/Grasses | Medium | Unspecified | Non-Wood |
| Quaking Aspen | 60 | Sapling | 1 | 3 | Canada Thistle | Trace | Unspecified | Non-Wood |
| American Elm | 1 | Sapling/Pole | 3 | | Goldenrod spp. | Low | Unspecified | Non-Wood |
| Beech | 3 | Sapling | 1 | | Wild Red Raspberry | Low | < 5 feet | Tall Shrub |
| Rock Elm | 3 | Pole/Sapling | 5 | | | | | |
| Red Maple | 13 | Sapling | 1 | | | | | |
| Red Oak | 1 | Pole/Log | 8 | | | | | |
| Balsam Fir | 4 | Sapling | 1 | | | | | |
| Red Maple | 1 | Pole/Sapling | 5 | | | | | |
| Red Oak | 1 | Sapling | 1 | 2 | | | | |
| Serviceberry (Juneberry) | 4 | Sapling | 1 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|--------------------|------------|-------------|----------|--------------|--|----------|----------|----------------------|-----|----------------|-----|------------|-----|----------|-------------|------------|----------|--------------|---------|--------------|-----|----------|------|-----|-------------|----|----------|----|-----|--------------|---|----------|----|--|---------------|----|----------|----|--|---|---|--------------------|---------|-------------|---|-------|--------------------|----------|-------------|----------|--------------------|----------|-------------|------------|-------------|----------|-------------|-------------|---------------|----------|----------|---------|--------------|--------|----------|---------|----------|-------|--------------|---------|--------------|-----|----------|---------|---------------|--------|--------------|---------|----------|-----|----------|---------|----------------|-----|----------|---------|
| 23 | 4199 - Other Mixed Upland Deciduous | Sawtimber Medium | 120.8 | 100 | 51-80 | N/A | Thinned in 2009. Good hemlock component. All Ash and alot of beech has died out, lowering the overall BA of this stand. Some Beech seem perfectly healthy, while some that look this way have recently suffered from beech snap. Oak ridge directly to the South was split out from this stand in 2024. Terrain rather steep in some places. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 7 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 10 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 29 | Log | 12 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 36 | Log/Pole | 10 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 2 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| American Elm | 1 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemlock | 13 | Log | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow Birch | 2 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Trace | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 500 - Water | Nonstocked | 27.4 | | | No | Beaver activity has created a variable waterscape consisting of anything from open water to emergent herbaceous to flooded timber. Lots of mortality but still some live fir, spruce and cedar. Small spring on n edge of st9. Appears historic beaver flood created this | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | Low | >20 feet | Log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | Low | >20 feet | Log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | >20 feet | Log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Balsam Fir | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Low | >20 feet | Pole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 262.3 | 113 | 81-110 | N/A | A majority of this stand was thinned in the last entry or so, a few orange painted trees were found. Ash was previously 8% of the canopy, which has since died. With the addition of beech mortality the stand's BA has been rather impacted. Terrain rather steep in some places. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemlock | 8 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 2 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 53 | Log/Pole | 10 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 22 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 3 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 230.1 | 105 | 51-80 | N/A | Harvested in the fall 2019/winter 2020. Ash and beech was salvaged besides a few marked beech to leave. Previously a pole stand, harvesting has shifted this stand into more log sized. Previous inventory had ironwood and beech as low in the understory which are now the dominating species. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 27 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 3 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 1 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 50 | Log/Pole | 11 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 2 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 2 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wild Red Raspberry | High | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Trace | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

| 28 | 4110 - Sugar Maple Association | Sawtimber Well | 241.1 | 105 | 51-80 | N/A | Thinning completed in September 2021, harvested primarily by hand crew over a few years (Block #2 Hardwoods). Previously a pole stand, thinning has shifted this stand into more log sized. Rolling slopes turn transitions to steep hills the farther east you go. White Ash was previously 8% of canopy. | | |
|----------------|--------------------------------|----------------|-------|-----|--------------------|---------|--|-------------|---------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Ironwood | 5 | Pole | 5 | | Basswood | Trace | | < 5 feet | Sapling |
| Sugar Maple | 57 | Log/Pole | 11 | 105 | Sugar Maple | Low | | < 5 feet | Sapling |
| Red Maple | 2 | Pole | 8 | | White Ash | Low | | Variable | Sapling |
| Basswood | 25 | Pole/Log | 9 | | Beech | High | | Variable | Sapling |
| Beech | 3 | Log/Pole | 11 | | Black Cherry | Low | | Variable | Sapling |
| Quaking Aspen | 2 | Log/Pole | 10 | | Bigtooth Aspen | Low | | 5 - 10 feet | Sapling |
| Bigtooth Aspen | 5 | Pole | 7 | | Striped Maple | Low | | Variable | Sapling |
| American Elm | 1 | Log | 12 | | Ironwood | High | | Variable | Sapling |

| 29 | 4110 - Sugar Maple Association | Poletimber Well | 33.1 | 105 | 81-110 | N/A | BA and percentages derived from 173 QD plots. Understory saplings are ubiquitous but stocking is highly variable. Very large stand, only editing to remove portions that have been harvested. | | |
|----------------|--------------------------------|-----------------|------|-----|--------------------|---------|---|-------------|---------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Quaking Aspen | 2 | Log/Pole | 10 | | Sugar Maple | Low | | Variable | Sapling |
| Sugar Maple | 53 | Pole/Log | 9 | 105 | Black Cherry | Low | | Variable | Sapling |
| Bigtooth Aspen | 3 | Pole | 7 | | Beech | Low | | Variable | Sapling |
| White Ash | 8 | Pole/Log | 9 | | White Ash | Low | | Variable | Sapling |
| Basswood | 25 | Pole/Log | 9 | | Ironwood | Low | | Variable | Sapling |
| Beech | 7 | Log/Pole | 10 | | | | | | |
| Red Maple | 2 | Pole | 8 | | | | | | |

| 30 | 4123 - Red Oak | Sawtimber Well | 55.2 | 101 | 111-140 | N/A | Mostly a South facing slope historically oak and beech, beech dying out due to BBD (still alot alive). Good amount of SM saplings in understory above browse. Ironwood & beech is not too overwhelming in understory. Understory most dense on flatter ground along road. QD was taken for this stand, PDF attached. | | |
|----------------|----------------|----------------|------|-----|--------------------|---------|---|-------------|---------|
| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Quaking Aspen | 2 | Log | 12 | | Sugar Maple | Medium | | Variable | Sapling |
| Yellow Birch | 1 | Pole | 8 | | Beech | Medium | | Variable | Sapling |
| Beech | 7 | Pole/Log | 9 | | Ironwood | Medium | | Variable | Sapling |
| Sugar Maple | 5 | Log/Pole | 10 | | White Ash | Trace | | 5 - 10 feet | Sapling |
| Basswood | 4 | Pole/Log | 8 | | | | | | |
| Red Maple | 5 | Pole/Log | 9 | | | | | | |
| Hemlock | 1 | Log | 16 | | | | | | |
| Red Oak | 75 | Log | 14 | 101 | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------------|-----------------|----------|------------|----------|--------------|---|----|----------|----|--|----------------|----|----------|----|----|---|----|--------------------|---------|-------------|-------------|--------|----------|-------------|----------|-----------|----|----------|---|--|-----------|---|----------|----|--|---------------|----|----------|----|-----|---|----|--------------------|---------|-------------|---|-------------|--------------------|----------|-------------|-----------|-------------|----------|----------|---------|-----------|----------|----------|----------|-------------|----------|----------|--------------|-----------|----------|----------|---------|--|--|
| 32 | 4123 - Red Oak | Sawtimber Well | 41.1 | 106 | 141-170 | N/A | Previously part of the surrounding M8 complex, but this is actually a SW facing ridge dominated by oak. QD was taken in this stand and is attached as a PDF. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 1 | Log | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 6 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemlock | 17 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 2 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 2 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 60 | Log/Pole | 12 | 106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 10 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 4111 - S.Maple, Hard Mast Association | Poletimber Well | 117.3 | 113 | 111-140 | N/A | Appears to be a pole stand leaning towards sawlog. No evidence of a previous thinning's. Northern portion has some nice sugar maple saplings regeneration, southern portion more typical ironwood/beech problem. White ash was previously 8% of the canopy lots of dead and down from beech and ash mortality QD was taken in this stand, PDF attached. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 3 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 5 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | 8 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 15 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemlock | 3 | Log | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 51 | Pole/Log | 9 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 4319 - Mixed Upland Forest | Sapling Medium | 4.2 | 20 | Immature | N/A | Old pasture land converting to sugar maple and red pine. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 50 | Sapling | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 50 | Sapling | 2 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sedges | Medium | Unspecified | Non-Wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 4110 - Sugar Maple Association | Poletimber Well | 57.0 | 105 | 81-110 | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 7 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 3 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 25 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 53 | Pole/Log | 9 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | 8 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 2 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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

36 4110 - Sugar Maple Association Poletimber Well 408.5 105 81-110 N/A SW Portion was part of the sale Almost There HDWDS but was never cut and turned back into the state. The NE corner has been thinned a few times, the past few entries. Some orange trees are still evident. Multiple BA swings average of 90 Sq. Ft. / Acre

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Beech | 7 | Log/Pole | 10 | | Beech | Medium | Variable | Sapling |
| Bigtooth Aspen | 3 | Pole | 7 | | White Ash | Low | Variable | Sapling |
| Quaking Aspen | 2 | Log/Pole | 10 | | Black Cherry | Low | Variable | Sapling |
| Sugar Maple | 53 | Pole/Log | 9 | 105 | Ironwood | Medium | Variable | Sapling |
| Red Maple | 2 | Pole | 8 | | Sugar Maple | Low | Variable | Sapling |
| White Ash | 8 | Pole/Log | 9 | | | | | |
| Basswood | 25 | Pole/Log | 9 | | | | | |

Terrain rather steep in some places.

37 4110 - Sugar Maple Association Poletimber Well 20.7 105 81-110 N/A

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Sugar Maple | 56 | Pole/Log | 9 | 105 | Ironwood | Low | Variable | Sapling |
| Red Maple | 7 | Pole | 8 | | Black Cherry | Low | Variable | Sapling |
| Basswood | 25 | Pole/Log | 9 | | White Ash | Low | Variable | Sapling |
| Quaking Aspen | 2 | Log/Pole | 10 | | Beech | Low | Variable | Sapling |
| Bigtooth Aspen | 3 | Pole | 7 | | Sugar Maple | Low | Variable | Sapling |
| Beech | 7 | Log/Pole | 10 | | | | | |

38 4110 - Sugar Maple Association Poletimber Well 21.7 105 81-110 N/A

| Canopy Species | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | Avg. Height | Size |
|----------------|---------|------------|-----|-----|--------------------|---------|-------------|---------|
| Quaking Aspen | 2 | Log/Pole | 10 | | Sugar Maple | Low | Variable | Sapling |
| Bigtooth Aspen | 3 | Pole | 7 | | White Ash | Low | Variable | Sapling |
| Sugar Maple | 53 | Pole/Log | 9 | 105 | Beech | Low | Variable | Sapling |
| Red Maple | 2 | Pole | 8 | | Black Cherry | Low | Variable | Sapling |
| Beech | 7 | Log/Pole | 10 | | Ironwood | Low | Variable | Sapling |
| Basswood | 25 | Pole/Log | 9 | | | | | |
| White Ash | 8 | Pole/Log | 9 | | | | | |